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India Welding Equipment Market Size, Share, Trends and Forecast by Technology, Type, End Use, and Region, 2026-2034

https://marketpublishers.com/r/I8D6DC84056EEN.html
Date: March 2026
Pages: 143
Price: US$ 3,999.00 (Single User License)
ID: I8D6DC84056EEN

Abstracts

The India welding equipment market size reached USD 710.7 Million in 2025 . Looking forward, IMARC Group expects the market to reach USD 1,091.7 Million by 2034 , exhibiting a growth rate (CAGR) of 4.71% during 2026-2034 . The India welding equipment market is driven by rapid industrialization, infrastructure development, expanding automotive and aerospace sectors, renewable energy projects, railway modernization, advancements in automation and robotic welding, rising demand for high-precision welding in defence manufacturing, and extensive adoption of innovative welding technologies for enhanced efficiency and durability.

INDIA WELDING EQUIPMENT MARKET TRENDS:

Expansion of the Defense and Aerospace Industry

India's expanding defense and aviation sectors are among the key drivers propelling the demand for welding equipment. Moreover, the government drive for local production of defense gear under the 'Atmanirbhar Bharat' program has boosted output of fighter planes, submarines, warships, and missile systems, all requiring precision welding techniques. Defense contracts to domestic firms for manufacturing armored vehicles, drones, and naval vessels have also boosted demand for specialized welding equipment. The aerospace sector, comprising commercial and defense aircraft manufacturing, is dependent on high-accuracy welding techniques like electron beam welding (EBW), tungsten inert gas (TIG) welding, and friction stir welding (FSW). These techniques are important in manufacturing lightweight high-strength components utilized in aircraft engines, fuselages, and fuel tanks. Moreover, the increasing space research investments by India, spearheaded by Indian Space Research Organization (ISRO),

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necessitate advanced welding solutions for satellite components, rocket shells, and cryogenic fuel storage tanks. Defect-free welds with high precision in applications to space have pushed investments into sophisticated welding technology such as robot-based and automatic welding systems.

Growth of the Indian Railways and Metro Expansion

The rapid expansion of Indian Railways and metro networks in major cities is another unique factor fueling the welding equipment market. The metro systems in India cover over 1,000 km across 11 states and 23 cities, making it the third largest metro system in the world. The Indian government is making major investments in upgrading railway infrastructures, bringing in high-speed trains, and increasing metro connectivity in urban zones. Welding is a critical activity in the production of railway tracks, coaches, locomotives, and metro, necessitating both conventional and state-of-the-art welding technologies. One of the major areas of application of welding technology in railways is track production and repair. Indian Railways has been making a switch toward replacing traditional bolted rail tracks with continuously welded rails (CWR), which provide more strength, safety, and durability. This trend has augmented the need for flash butt welding, thermite welding, and automatic track welding machines. Moreover, large-scale welding is needed in metro projects in Delhi, Mumbai, Bengaluru, and Chennai for tunnel construction, stations, and manufacturing of rolling stock. With the launch of semi-high-speed and bullet trains, including the Vande Bharat Express and Mumbai-Ahmedabad bullet train project, there is a growing need for lightweight and high-strength welded parts. Sophisticated welding processes, such as laser welding, friction stir welding (FSW), and robotic welding, are being used to produce energy-efficient, aerodynamic train coaches.

INDIA WELDING EQUIPMENT MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the region/country level for 2026-2034. Our report has categorized the market based on technology, type, and end use.

Technology Insights:

- Arc Welding
  - Shielded Metal/Stick Arc Welding

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MIG

TIG

Plasma Arc Welding

Others

Resistance Welding

Laser Beam Welding

Oxy-Fuel Welding

The report has provided a detailed breakup and analysis of the market based on technology. This includes arc welding (shielded metal/stick arc welding, MIG, TIG, plasma arc welding, and others), resistance welding, laser beam welding, oxy-fuel welding, and others.

Type Insights:

Automatic

Semi-Automatic

Manual

A detailed breakup and analysis of the market based on the type have also been provided in the report. This includes automatic, semi-automatic, and manual.

End Use Insights:

Aerospace

Automotive

Building and Construction

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Energy

Oil and Gas

Marine

The report has provided a detailed breakup and analysis of the market based on the end use. This includes aerospace, automotive, building and construction, energy, oil and gas, marine, and others.

Regional Insights:

North India

South India

East India

West India

The report has also provided a comprehensive analysis of all the major regional markets, which include North India, South India, East India, and West India.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT
1. How big is the welding equipment market in India?
2. What is the future outlook of the welding equipment market in India?
3. What are the key factors driving the India welding equipment market?

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