

India Industrial Plugs and Sockets Market Size and Forecast (2021 - 2031), Country Share, Trend, and Growth Opportunity Analysis Report Coverage: By Protection Type (Dust Proof, Water Proof, Splash Proof, and Others), Type (Socket and Plug), End User (Heavy Industry, Oil and Gas, Power Generation, Automotive, Chemical and Pharmaceutical, and Others), Current Rating (32 Amp, 16 Amp, 63 Amp, and 125 Amp), and Country

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Abstracts

The India industrial plugs and sockets market size was valued at US\$ 187.06 million in 2023 and is expected to reach US\$ 269.57 million by 2031; it is estimated to record a CAGR of 4.7% from 2023 to 2031.

Industry 4.0 is transforming how companies manufacture, process, and distribute their products. They are incorporating modern technologies such as the Internet of Things (IoT), robotics, analytics tools, artificial intelligence (AI), and machine learning into their facilities to boost operational and production efficiencies. Factory automation plays a crucial role in automating the manufacturing process to bolster the production output in minimal time and reduce labor costs. In addition, it helps improve the quality of products by minimizing the risk of human errors and creating a safe environment. These factors are leading to an increasing inclination toward factory automation through the adoption of robotic solutions.

The adoption of industrial robots is gaining pace in industries such as food and beverages, logistics, and machine tending. Moreover, several other industries are likely

to embrace industrial robots with the enhancing functionality of robotics, e.g., vision-guided robots. India has a higher penetration rate of industrial robots, with the remarkable prospects of further installations. For example, according to the International Federation of Robotics, the operational stock of industrial robots has more than doubled, to reach 33,220 units in 2021 within five years. The potential for the adoption of robotics is attributed to the need for modernization and transformation required in the industrial sector. The progressive robotic culture is beneficial for industrial plugs and socket manufacturers.

Thus, as industries increasingly focus on efficiency, safety, and sustainability, the need for innovative, reliable, and customized electrical connectivity solutions is likely to rise in the coming years. Manufacturers and suppliers adopting automation are expected to generate a significant demand for advanced and robust plug-and-socket technologies. Thus, the rising adoption of industrial robots and automation is emerging as a future trend in the India plugs and sockets market.

Based on protection type, the India industrial plugs and sockets market is segmented into dustproof, splash proof, waterproof, and others. The dustproof segment held the largest India industrial plugs and sockets market share. Industrial plugs and sockets are designed to protect machines against accumulated or suspended flammable dust. These industrial plugs and sockets are integrated with industrial machines to bear maximum surface temperature within a given range of ambient temperatures (T_a) and deal with the accumulation of dust layers. These plugs and sockets have high adaptability and exposure to dry environments in storage, operation, and transportation. Various market players are offering several industrial plugs and sockets that are dustproof. For instance, ABB offers a 432MVS6XW industrial plug made of fiberglass-reinforced polyester used as an explosion-proof switched interlocked outlet.

Waterproof plugs and sockets are mainly installed in the toughest indoor and outdoor environments, which comprise wet locations, UV and ozone exposures, high-pressure sprays, and prolonged contact with oils and chemicals (applied to enable reliable and safe connectivity). The primary feature of waterproof plugs and sockets is the shell that is made of polyamides (PA) such as nylon or polypropylenes (PP). Thus, their shell shows excellent stability to water and has a wide temperature tolerance range from -40° to 90°. These plugs are efficiently operated near constant water jets or by submerging in water. The food & beverages, construction, marine, chemicals, offshore oil & gas, and pharmaceutical industries generate a significant demand for waterproof industrial plugs and sockets. For instance, Eaton Corporation offers Arrow Hart's watertight plugs and connectors that have superior watertight protection.

ABB Ltd., Amphenol Corporation, BCH Electric Limited, Eaton Corporation plc, General Industrial Controls Private Limited (GIC), Legrand SA, MENNEKES, SCAME PARRE S.p.A., Schneider Electric, and Super Engineering Works are among the key India industrial plugs and sockets market players that are profiled in this market study.

The overall India industrial plugs and sockets market size has been derived using both primary and secondary sources. Exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the India industrial plugs and sockets market size. The process also helps obtain an overview and forecast of the market with respect to all the market segments. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain analytical insights. This process includes industry experts such as VPs, business development managers, market intelligence managers, and national sales managers, along with external consultants such as valuation experts, research analysts, and key opinion leaders, specializing in the India industrial plugs and sockets market.

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