

Global Robot Charging Station Market Size study & Forecast, by Type (Fixed, Mobile), by Level of Charging (Level 1, Level 2, Level 3), by Commercial Application (Parking Facilities, Airports, Retail Centers & Malls, Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/GF62B6B3F537EN.html>

Date: December 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GF62B6B3F537EN

Abstracts

Global Robot Charging Station Market is valued at approximately USD 0.28 Million in 2022 and is anticipated to grow with a healthy growth rate of more than 42.9% over the forecast period 2023-2030. A robot charging station is a specialized facility designed to provide power and recharge robotic devices or machines. These stations are typically equipped with docking ports or connectors that allow robots to autonomously navigate to the station and plug in for recharging. Robot charging stations are commonly used in various industries, such as manufacturing, logistics, and healthcare, where robots and autonomous machines play a crucial role in tasks such as material handling, surveillance, or even medical procedures. The Robot Charging Station Market is expanding because of factors such as rising adoption of Electric Vehicles (EVs), rising adoption of robots in various industries, and advancements in robotics technology.

The rising adoption of EVs is playing a significant role in driving the growth of the Robot Charging Station Market. As the automotive industry undergoes a transformation towards cleaner and more sustainable transportation, the demand for EVs is increasing worldwide. With this surge in EV adoption, there is a growing need for efficient and convenient charging infrastructure to support these vehicles. The International Energy Agency states that there were more than 16.5 million electric vehicles in use worldwide in 2021, an increase of 61% from 2020. (10.2 million units). Moreover, the rising demand for robots in warehousing and fulfillment centers and rising automation and

adoption of industry 4.0 is creating new opportunities to the market growth. However, the high initial cost and lack of standards stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Robot Charging Station Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. Asia Pacific dominated the market in 2022. The rapid development of EV infrastructure in the region is largely due to the government's resolute policies and programmes that support environmentally friendly transportation, rising efforts in EV adoption, with a focus on compatibility and scalability to meet the needs of the quickly growing EV market. Additionally, developments in manufacturing and technology makes affordable and highly efficient robot charging solutions, making them more widely available to a wider range of users. Moreover, Latin America is projected to have the fastest growth owing to factors such as rising government initiatives to develop new charging stations, and rising adoption of electric vehicles in the region.

Major market player included in this report are:

Hyundai Motor Group

EV Safe Charge Inc.

Mob-Energy S.A.S

VOLTERIO GmbH

ROCSYS

NaaS Technology, Inc

Volkswagen

Autev

EVAR Inc.

Alveri Group Ltd

Recent Developments in the Market:

In April 2023, Lotus unveiled an advanced robotic electric vehicle charger at the Shanghai Motor Show, capable of delivering impressive charging speeds of up to 500kW. During the event, the robotic charger demonstrated its prowess by autonomously connecting to a Lotus Eletre SUV. This groundbreaking charger, which is currently without an official name, would introduced as part of a fleet of 50 units, designed to provide charging support for all types of electric vehicles.

Global Robot Charging Station Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Type, Level of Charging, Commercial Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Rest of the World

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Fixed

Mobile

By Level of Charging:

Level 1

Level 2

Level 3

By Commercial Application:

Parking Facilities

Airports

Retail Centers & Malls

Others

By Region:

North America

U.S.

Canada

Europe

UK
Germany
France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Rest of the World

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