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Global EV Locking Actuator Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global EV Locking Actuator market size was valued at US$ 580 million in 2025 and is forecast to a readjusted size of US$ 884 million by 2032 with a CAGR of 6.2% during review period.

In 2025, global EV Locking Actuator production reached approximately 18,800 k units?with an average global market price of around US$ 30 per unit, and a gross profit margin of approximately 10%-30%. An EV Locking Actuator is an electromechanical actuator used in key interfaces and mechanisms of electric vehicles. It provides physical constraints and safety interlocks for "locking/unlocking" under specific operating conditions, preventing accidental operation, detachment, or forced removal while under high voltage, thus ensuring charging and driving safety. Typical applications include: charging gun/inlet locking actuators—which fix the charging gun inlet using a locking pin/pawl mechanism during charging and are linked to the vehicle control strategy, allowing unlocking only after the vehicle confirms power de-energization and meets interlocking conditions; charging port door/cover actuators—which enable the opening, closing, suction, and locking of the charging port cover, improving waterproofing, dustproofing, and anti-theft capabilities; and electronic parking lock/transmission P-gear locking actuators—which drive the pawl/locking mechanism to reliably engage or release in the parking state, preventing vehicle rollover and meeting functional safety requirements.

In the EV locking actuator supply chain, the upstream layer is built around electromechanical and materials inputs such as copper windings and magnetic steel (for solenoids), DC motors and geartrains, springs and precision stamped parts, engineering plastics and corrosion-resistant metals, seals and lubricants for water/ice/salt exposure,

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connectors and harness materials, and electronics components (drivers, Hall/limit switches) that enable position feedback and diagnostics. The midstream layer consists of actuator and module manufacturers that design and produce charge-inlet/plug locking actuators, charge-port door/flap actuators, and electronic park-lock actuators; they integrate mechanics with sensing and control (often LIN/CAN-ready), validate durability across automotive temperature/vibration/chemical environments, and supply either standalone actuators or integrated modules to Tier-1 suppliers. The downstream layer is driven by Tier-1 system integrators and vehicle OEMs that specify these actuators as safety and user-experience components within the charging system and drivetrain/parking system, ensuring interlock logic (unlock only when safe), functional safety and diagnostic requirements, and serviceability over the vehicle lifecycle; demand is further shaped by platform standardization, second-sourcing strategies, and retrofit/aftermarket replacement through dealer and parts channels.

This report is a detailed and comprehensive analysis for global EV Locking Actuator market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global EV Locking Actuator market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global EV Locking Actuator market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global EV Locking Actuator market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global EV Locking Actuator market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

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To determine the size of the total market opportunity of global and key countries
To assess the growth potential for EV Locking Actuator
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global EV Locking Actuator market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Johnson Electric, Phoenix Contact, FORVIA HELLA, Marquardt, TE Connectivity, Valeo, Kiekert, Volex, Shanghai Mida, Magna, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

EV Locking Actuator market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Slow Charging

Fast Charging

Super Fast Charging

Market segment by Power

12V

24V

Others

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Market segment by Application

Commercial Vehicles

Passenger Vehicles

Major players covered

Johnson Electric

Phoenix Contact

FORVIA HELLA

Marquardt

TE Connectivity

Valeo

Kiekert

Volex

Shanghai Mida

Magna

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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Chapter 1, to describe EV Locking Actuator product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of EV Locking Actuator, with price, sales quantity, revenue, and global market share of EV Locking Actuator from 2021 to 2026.

Chapter 3, the EV Locking Actuator competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the EV Locking Actuator breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and EV Locking Actuator market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of EV Locking Actuator.

Chapter 14 and 15, to describe EV Locking Actuator sales channel, distributors, customers, research findings and conclusion.

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