

Global Power Grid Inspection Robot Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Power Grid Inspection Robot market size is expected to reach \$ 6824 million by 2032, rising at a market growth of 20.5% CAGR during the forecast period (2026-2032).

In 2025, global Power Grid Inspection Robot production reached approximately 25.6k units, with an average global market price of around US\$70k per unit.

Power Grid Inspection Robot is an intelligent robotic inspection system designed for transmission lines, substations, distribution stations, cable tunnels, converter stations and underground utility corridors. It typically integrates a mobile platform, HD cameras, thermal imaging, partial discharge detection, acoustic sensing, LiDAR, GPS/BeiDou positioning, wireless communication and AI-based image recognition. It can automatically inspect transformers, circuit breakers, switchgear, insulators, conductors, connectors, surge arresters, cables and meters, while performing temperature monitoring, defect recognition, abnormality warning and data transmission. Compared with manual inspection, power grid inspection robots provide standardized, continuous and safer inspection in high-voltage, complex and repetitive environments, making them an important part of smart grids, unmanned substations and condition-based maintenance systems.

The upstream supply chain of power grid inspection robots mainly includes motors, reducers, controllers, sensors, LiDAR, industrial cameras, thermal imaging devices, partial discharge detection modules, batteries, communication modules and AI chips. Representative suppliers include Siemens, ABB, Schneider Electric, Omron, Hikvision, Teledyne FLIR, Honeywell, NVIDIA and Hesai Technology. The midstream segment consists of robot manufacturers, system integrators and intelligent power maintenance

platform providers responsible for robot design, navigation algorithms, defect recognition models and dispatching platforms. Downstream users are mainly grid operators such as State Grid, China Southern Power Grid, TEPCO, Chubu Electric Power Grid, Enel, E.ON and National Grid, as well as renewable power stations, industrial parks and large power asset operators. Applications cover substations, transmission lines, distribution stations, cable tunnels and converter stations.

The power grid inspection robot market is one of the most mature and commercially developed segments within intelligent inspection robotics. Its application has expanded from substation inspection to transmission lines, cable tunnels, distribution stations, converter stations and renewable power facilities. Market growth is mainly driven by smart grid development, unmanned substation deployment, increasing demand for condition-based maintenance, rising labor costs and stricter power safety requirements. Future products are expected to evolve toward multi-sensor fusion, AI-based defect recognition, cloud-edge collaboration, digital twin integration, multi-robot coordination and ground-air integrated inspection. However, the market also faces challenges such as declining procurement prices, high project customization, unstable recognition performance in complex environments, inconsistent regional standards and high after-sales service costs. Competition will increasingly shift from hardware sales to integrated capabilities combining robot platforms, AI algorithms and long-term maintenance services.

This report studies the global Power Grid Inspection Robot production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Power Grid Inspection Robot 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 Power Grid Inspection Robot that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Power Grid Inspection Robot total production and demand, 2021-2032, (K Units)

Global Power Grid Inspection Robot total production value, 2021-2032, (USD Million)

Global Power Grid Inspection Robot production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Power Grid Inspection Robot consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Power Grid Inspection Robot domestic production, consumption, key

domestic manufacturers and share

Global Power Grid Inspection Robot production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Power Grid Inspection Robot production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Power Grid Inspection Robot production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Power Grid Inspection Robot 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 ANYbotics, Robotnik, Energy Robotics, SMP Robotics, OTSAW Digital, Boston Dynamics, ABB, Robotics Plus, KUKA AG, Hangzhou Guochen Robot 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 Power Grid Inspection Robot 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 Power Grid Inspection Robot Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Power Grid Inspection Robot Market, Segmentation by Type:

Indoor

Outdoor

Global Power Grid Inspection Robot Market, Segmentation by Movement Method:

Wheeled

Tracked

Quadruped

Rail-mounted

Global Power Grid Inspection Robot Market, Segmentation by Load Capacity:

5-50 kg

50-100 kg

Others

Global Power Grid Inspection Robot Market, Segmentation by Application:

Transmission Lines

Substations

Distribution Stations

Energy Storage

Photovoltaics

Others

Companies Profiled:

ANYbotics

Robotnik

Energy Robotics

SMP Robotics

OTSAW Digital

Boston Dynamics

ABB

Robotics Plus

KUKA AG

Hangzhou Guochen Robot Technology

Zhejiang Guozi Robotics

SUPCON Technology

Zhejiang Dali Technology

SUIRUI Technology

Guangzhou Guoxun Robot Technology

DTA

ONEWAY

Tianjin Zwinsoft Technology

ANCN

Sunwin Intelligent

Srod Industrial Group

Hangzhou Shenhao Technology

Yijiahe Technology

Qi Sheng Intelligence

Anbei Technology

Comarvel

Launch Digital

Key Questions Answered:

1. How big is the global Power Grid Inspection Robot market?
2. What is the demand of the global Power Grid Inspection Robot market?
3. What is the year over year growth of the global Power Grid Inspection Robot market?
4. What is the production and production value of the global Power Grid Inspection Robot market?
5. Who are the key producers in the global Power Grid Inspection Robot market?
6. What are the growth factors driving the market demand?

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