

Global Off-Road E-Motorcycle Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Off-Road E-Motorcycle market size is expected to reach \$ 3580 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032). Off-road electric motorcycles are electric two-wheeled motor vehicles designed specifically for unpaved and complex terrain. They use a high-power permanent magnet synchronous motor as the power source and a lithium-ion battery as the energy storage core. They feature high ground clearance, reinforced off-road suspension, and non-slip off-road tires. They are zero-emission, low-noise, and have strong torque output. They are suitable for riding and working in off-road scenarios such as mountains, jungles, deserts, and mud, and are an environmentally friendly upgrade and replacement for traditional fuel-powered off-road motorcycles.

Global production of off-road electric motorcycles is projected to reach 292,000 units in 2025, with an average price of \$6,800 per unit.

Upstream of off-road electric motorcycles mainly includes power battery cells, battery management chips, high-rate battery modules, motor magnetic materials, control ICs, power semiconductors, aluminum alloy and composite frames, suspension core materials, and tire rubber. Downstream applications are the primary value driver, focusing on recreational and competitive off-road riding, professional racing and training, outdoor leisure and tourism rental, youth and entry-level sports markets, as well as niche uses such as forest patrol, ranch operations, and special-purpose tasks. Downstream users place strong emphasis on instant torque, range and swappable battery capability, vehicle durability, ingress protection, and ease of maintenance, while also valuing low noise, zero emissions, and environmental friendliness. Event organizers, riding clubs, and rental operators represent important bulk buyers, prioritizing performance stability and total lifecycle cost, while individual consumers are more sensitive to brand, design, and riding experience.

Industry trends include continuous upgrades in high power-density motors and high-rate

lithium batteries, increasing intelligence of electronic control systems, wider adoption of lightweight materials, and gradual penetration of swappable and modular battery designs. Products are differentiating toward both professional performance and recreational segments. Key growth drivers include rising global interest in off-road and outdoor sports, tightening environmental and noise regulations, increasing restrictions on gasoline off-road motorcycles in some regions, and performance gains enabled by maturing battery and electric drive technologies. Major constraints include relatively high vehicle costs, limited range in extreme off-road conditions, insufficient charging and supporting infrastructure, strong user loyalty to traditional gasoline models, and incomplete electrification of racing rules and entry standards.

Gross margins for off-road electric motorcycle manufacturers are generally at a mid-to-high level, typically ranging from 25% to 40%, with higher margins for premium performance and branded models, while entry-level and mass-market offerings show more limited margins.

This report studies the global Off-Road E-Motorcycle production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Off-Road E-Motorcycle 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 Off-Road E-Motorcycle that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Off-Road E-Motorcycle total production and demand, 2021-2032, (Units)

Global Off-Road E-Motorcycle total production value, 2021-2032, (USD Million)

Global Off-Road E-Motorcycle production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Off-Road E-Motorcycle consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Off-Road E-Motorcycle domestic production, consumption, key domestic manufacturers and share

Global Off-Road E-Motorcycle production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Off-Road E-Motorcycle production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Off-Road E-Motorcycle production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Off-Road E-Motorcycle 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 Stark Future, KTM, Husqvarna Motorcycles, GASGAS, CAKE, Zero Motorcycles, Volcon, Rieju, Electric Motion, SUR-RON, 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 Off-Road E-Motorcycle market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Off-Road E-Motorcycle Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Off-Road E-Motorcycle Market, Segmentation by Type:

Below 5kW

5-15kW

Above 15kW

Global Off-Road E-Motorcycle Market, Segmentation by Battery:

Lithium Iron Phosphate (LFP) Battery

Lithium Nickel Cobalt Manganese Oxide (NMC) Battery

Global Off-Road E-Motorcycle Market, Segmentation by Frame:

Hardtail Frames

Softtail Frames

Global Off-Road E-Motorcycle Market, Segmentation by Application:

Professional off-Road Racing

Outdoor Recreation and Adventure

Special Operations and Emergency Rescue

Other

Companies Profiled:

Stark Future

KTM

Husqvarna Motorcycles

GASGAS

CAKE

Zero Motorcycles

Volcon

Rieju

Electric Motion

SUR-RON

TALARIA POWER TECH (CHONGQING) CO., LTD

Segway-Ninebot

KUBERG

OSET Bikes

Razor USA

APOLLINO

E Ride Pro, Inc.

Key Questions Answered:

1. How big is the global Off-Road E-Motorcycle market?
2. What is the demand of the global Off-Road E-Motorcycle market?
3. What is the year over year growth of the global Off-Road E-Motorcycle market?
4. What is the production and production value of the global Off-Road E-Motorcycle market?
5. Who are the key producers in the global Off-Road E-Motorcycle market?
6. What are the growth factors driving the market demand?

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