

Autonomous Bike Market by Technology (Gyroscope, GPS, Camera, RADAR, Intelligent Speed Assistance, and Others), Level of Autonomy (Semi-autonomous and Fully Autonomous), and Vehicle Type (Motorcycle, Kick Scooter, and E-bicycle): Global Opportunity Analysis and Industry Forecast, 2027–2035

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Abstracts

Autonomous bike is a self-balancing vehicle powered by cutting-edge technologies, which assist the bike to navigate its journey by taking appropriate actions according to the parameters detected by the sensors. Market players and researchers across the globe are finding ways in which new technologies such as superior sensors and artificial intelligence (AI) can revolutionize the motorbikes. The shift in the direction of making motor bikes and scooters smarter is analogous to the way advanced driver assistance systems (ADAS) have advanced in cars over time.

Researchers at Massachusetts Institute of Technology (MIT) have been examining a self-sufficient tricycle called persuasive electric vehicle (PEV) made for the carriage of goods and individuals. While other options for the same requirements exist, autonomous bikes are expected to be more preferable, owing to their advantages such as their compact size, movability, and speed, all of which are immensely helpful in congested environments.

Factors such as rise in demand from customers for technologically advanced motor bikes and improvement in rider's safety are expected to drive the growth of the autonomous bike market during the forecast period. However, concerns related to inaccuracy & calibration in autonomous vehicles as well as design issues and high

costs associated with the operation of autonomous bikes are anticipated to hamper the growth of the market. Conversely, increase in initiatives regarding the design & development of innovative systems and rise in installation of smart technologies in motorbikes are expected to offer remunerative opportunities for the expansion of the global autonomous bike market during the forecast period.

The global autonomous bike market segmentation is based on technology, level of autonomy, vehicle type, and region. Depending on technology, the market is differentiated into gyroscope, GPS, camera, RADAR, intelligent speed assistance, and others. By the level of autonomy, it is categorized into semi-autonomous and fully autonomous. On the basis of vehicle type, it is fragmented into motorcycle, kick scooter, and e-bicycle. Region wise, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

The key players analyzed in the aircraft lighting market include Aeroleds, Astronics Corporation, Beadlight Limited, Bruce Aerospace, Cobham PLC, Heads Up Technologies, Honeywell International Inc., Madelec Aero, Safran, and Whelen Aerospace Technologies.

KEY BENEFITS FOR STAKEHOLDERS

This study presents analytical depiction of the global autonomous bike market along with the current trends and future estimations to depict the imminent investment pockets.

The overall market potential is determined to understand the profitable trends to enable stakeholders gain a stronger foothold in the market.

The report presents information related to key drivers, restraints, and opportunities with a detailed impact analysis.

The current market is quantitatively analyzed from 2027 to 2035 to highlight the financial competency of the market.

Porter's five forces analysis illustrates the potency of the buyers and suppliers.

KEY MARKET SEGMENTS

By Technology

Gyroscope

GPS

Camera

RADAR

Intelligent Speed Assistance

Others

By Level of Autonomy

Semi-autonomous

Fully Autonomous

By Vehicle Type

Motorcycle

Kick Scooter

E-bicycle

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

BMW Group

Flo Mobility Private Limited

Go X Apollo

Honda Motor Co., Ltd.

IAV

Kawasaki Heavy Industries, Ltd.

Refraction AI

Spin

Tortoise

Yamaha Motor Co., Ltd.

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(%)

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