

# **Motorcycle Diagnostic Scan Tools Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034**

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## **Abstracts**

The Global Motorcycle Diagnostic Scan Tools Market was valued at USD 1.5 billion in 2024 and is expected to grow at a CAGR of 6.2% between 2025 and 2034. Demand is rising as electric motorcycles gain popularity, necessitating advanced diagnostic systems to manage electronic control units (ECUs) and battery operations. Unlike traditional internal combustion engine (ICE) motorcycles, electric models depend on sophisticated software to regulate power distribution, regenerative braking, and real-time performance monitoring. As electric motorcycles become more prevalent, diagnostic tools capable of evaluating these functions are becoming essential for effective maintenance and repairs.

Additionally, the growing number of motorcycle owners seeking efficient troubleshooting options is contributing to market growth. Independent mechanics, service centers, and DIY motorcycle enthusiasts are driving demand for user-friendly diagnostic tools that deliver accurate results quickly. Rising awareness about preventive maintenance and the need for timely fault detection to avoid expensive repairs are encouraging the adoption of diagnostic scan tools. Manufacturers are also focusing on integrating advanced features such as cloud-based diagnostics and artificial intelligence (AI)-powered analytics to enhance diagnostic efficiency and deliver real-time updates. This trend is expected to drive further innovation and expansion in the motorcycle diagnostic scan tools market, ensuring continued growth over the forecast period. The market is segmented by product type, with handheld diagnostic tools dominating the sector, holding a 50% share in 2024 and projected to reach USD 1 billion by 2034. These devices are favored for their portability and affordability, making them an ideal choice for independent mechanics, roadside service providers, and motorcycle owners. Handheld tools provide quick and accurate diagnostics without the need for bulky equipment, offering a convenient solution for troubleshooting engine issues, sensor

malfunctions, and electronic faults. Their simplicity and widespread availability have contributed to their dominance in the market. Continuous technological advancements are enhancing their functionality, ensuring improved compatibility with modern motorcycle systems. As manufacturers develop devices with more sophisticated features and seamless integration capabilities, the demand for handheld diagnostic tools is expected to increase further.

Connectivity also plays a critical role in the market, with wired diagnostic tools holding a commanding 74% share in 2024. These tools are preferred for their superior reliability and direct data transmission capabilities, making them indispensable in professional settings. Unlike wireless alternatives, wired diagnostic tools establish a stable connection between the motorcycle's ECU and the scanning device, minimizing the risk of data loss or connection issues. Mechanics and technicians rely on wired solutions for their precision in diagnosing faults and their ability to deliver real-time results without external interference. Despite the growing presence of wireless technology, wired diagnostic tools remain the top choice for professional use, particularly in workshops and service centers where accuracy is critical.

China motorcycle diagnostic scan tools market generated USD 319.7 million in 2024, driven by the country's large two-wheeler population and robust motorcycle manufacturing industry. As the world's largest producer and consumer of motorcycles, China has an increasing need for diagnostic tools to maintain and repair millions of motorcycles. The surge in domestic and export production models is driving demand for advanced scanning technology that ensures efficient maintenance and long-term performance for modern motorcycles.

## Contents

### CHAPTER 1 METHODOLOGY & SCOPE

- 1.1 Research Design
  - 1.1.1 Research Approach
  - 1.1.2 Data Collection Methods
- 1.2 Base Estimates & Calculations
  - 1.2.1 Base Year Calculation
  - 1.2.2 Key Trends For Market estimation
- 1.3 Forecast model
- 1.4 Primary research and validation
  - 1.4.1 Primary sources
  - 1.4.2 Data mining sources
- 1.5 Market scope & definition

### CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry 360° synopsis, 2021 - 2034

### CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
  - 3.1.1 Supplier landscape
    - 3.1.1.1 Component Suppliers
    - 3.1.1.2 Manufacturers
    - 3.1.1.3 Distributors
    - 3.1.1.4 End use
  - 3.1.2 Profit margin analysis
- 3.2 Technology & innovation landscape
- 3.3 Patent analysis
- 3.4 Regulatory landscape
- 3.5 Use cases
- 3.6 Impact forces
  - 3.6.1 Growth drivers
    - 3.6.1.1 Growing adoption of electric motorcycles and need for EV-specific diagnostic tools
    - 3.6.1.2 Increasing integration of IoT and AI in motorcycle diagnostics for predictive maintenance

3.6.1.3 Rising demand for advanced diagnostic solutions due to complex ECU and sensor-based systems

3.6.1.4 Government regulations and emission norms driving the need for regular vehicle diagnostics

3.6.2 Industry pitfalls & challenges

3.6.2.1 High initial cost of advanced diagnostic scan tools limiting adoption among small workshops

3.6.2.2 Compatibility issues with different motorcycle brands and models requiring frequent software updates

3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

## **CHAPTER 4 COMPETITIVE LANDSCAPE, 2024**

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

## **CHAPTER 5 MARKET ESTIMATES & FORECAST, BY PRODUCT, 2021 - 2034 (\$BN)**

5.1 Key trends

5.2 Handheld diagnostic tools

5.3 PC-based diagnostic software

5.4 Mobile app-based diagnostic tools

## **CHAPTER 6 MARKET ESTIMATES & FORECAST, BY CONNECTIVITY, 2021 - 2034 (\$BN)**

6.1 Key trends

6.2 Wired

6.3 Wireless

## **CHAPTER 7 MARKET ESTIMATES & FORECAST, BY MOTORCYCLE, 2021 - 2034 (\$BN)**

7.1 Key trends

- 7.2 Conventional motorcycles
- 7.3 Electric motorcycles
- 7.4 Sports & performance bikes

## **CHAPTER 8 MARKET ESTIMATES & FORECAST, BY END USE, 2021 - 2034 (\$BN)**

- 8.1 Key trends
- 8.2 OEM service centers
- 8.3 Independent repair shops
- 8.4 Individual riders & enthusiasts

## **CHAPTER 9 MARKET ESTIMATES & FORECAST, BY REGION, 2021 - 2034 (\$BN)**

- 9.1 Key trends
- 9.2 North America
  - 9.2.1 U.S.
  - 9.2.2 Canada
- 9.3 Europe
  - 9.3.1 UK
  - 9.3.2 Germany
  - 9.3.3 France
  - 9.3.4 Italy
  - 9.3.5 Spain
  - 9.3.6 Russia
  - 9.3.7 Nordics
- 9.4 Asia Pacific
  - 9.4.1 China
  - 9.4.2 India
  - 9.4.3 Japan
  - 9.4.4 Australia
  - 9.4.5 South Korea
  - 9.4.6 Southeast Asia
- 9.5 Latin America
  - 9.5.1 Brazil
  - 9.5.2 Mexico
  - 9.5.3 Argentina
- 9.6 MEA
  - 9.6.1 UAE
  - 9.6.2 South Africa

### 9.6.3 Saudi Arabia

## **CHAPTER 10 COMPANY PROFILES**

10.1 Autel Intelligent Technology

10.2 AVL DiTEST

10.3 BorgWarner

10.4 Continental

10.5 Delphi Technologies

10.6 Denso

10.7 Dynojet Research

10.8 Eautotools

10.9 HealTech Electronics

10.10 HELLA

10.11 iCarsoft Technology

10.12 Launch Tech

10.13 Pico Technology

10.14 Robert Bosch

10.15 Siemens

10.16 Snap-on

10.17 Softing

10.18 TEXA

10.19 Vector Informatik

10.20 Vamag

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