PASSION MEETS EXPERTISE

Worldwide demand for powered two-wheelers is on the rise. The Two-Wheeler & Powersports business unit of Bosch is pooling around 160 million two-wheelers will be produced annually – a third more than today. To better meet increasing demand and individual manufacturer requirements, Bosch is merging its two-wheeler and powersports activities into one global organization – the Two-Wheeler & Powersports business unit. This unit brings together the enormous worldwide experience of experts from the areas of safety systems, powertrain technology, and connectivity and offers companies an extensive portfolio of systems solutions that service the entire two-wheeler and powersports spectrum from fraud avoidance, high-performance braking systems, to exhaust systems such as fuel, personal audio and navigation.

ASSISTANCE SYSTEMS

Bosch brings together the knowledge and experience of its two-wheeler and powersports experts. It understands the surrounds to help riders change lanes more safely. For instance, Bosch’s turn-by-turn navigation system guides riders to the destination with voice commands and visual displays. Bosch’s ride-by-wire technology enables riders to control the throttle and brakes using their feet, which improves riding stability and shortens stopping distances. The world’s first motorcycle electronic stability control (MSC) was especially designed for the braking and steering conditions of two-wheelers and can be adapted to models ranging from the lower power segment to high-performance bikes. The system prevents the rear wheel from slipping. While Bosch has always focused on developing technologies that help motorcyclists ride safer, today’s advancements are taking them a step further with a new generation of machine learning algorithms to continuously fine-tune technology for two-wheelers and powersports. The aim is to make perfectly controlled vehicle behavior a reality, enabling riders to take full advantage of their bikes.

PASSION AND COMPETENCE BEYOND TECHNOLOGY

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Bosch – your partner for two-wheeler and powersports

Passion and competence beyond technology: Bosch – your partner for two-wheeler and powersports

System solutions for two-wheeler and powersports

Making riders safer, more efficient and fun

Two-Wheeler & Powersports – Riding innovation

Two-Wheeler and Powersports experts worldwide for every region and segment

Local presence for curated systems, assistance systems, powertrain systems and electrification. Bosch has experts worldwide for two-wheelers and powersports. The company develops and manufactures products and systems that improve engine performance, safety, and connectivity to make riding safer, more efficient and fun.

Optimal support for the entire lifecycle

Optimal support for the entire lifecycle

Bosch offers and trained support throughout the entire lifecycle of vehicles with technologies for connectivity, assistance systems, powertrain systems and electrification.

Transnational automotive expertise to optimize two-wheelers and powersports

Transnational automotive expertise to optimize two-wheelers and powersports

Optimal system integration means that Bosch maximizes system efficiency and brings together expertise from different technological disciplines. The company has teams of experts working intensively and exclusively on two-wheeler and powersports developments worldwide and powersports manufacturers. Bosch offers end-to-end support throughout the entire lifecycle of vehicles with technologies for connectivity, assistance systems, powertrain systems and electrification.

Powertrain solutions and electrification

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Bosch ensures the best ease of use and perfection in the system solutions for two-wheeler and powersports. Bosch offers end-to-end support throughout the entire lifecycle of vehicles with technologies for connectivity, assistance systems, powertrain systems and electrification.

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Optimal Support for the Entire Lifecycle

Long-term partnerships with Bosch have been a factor in the success of many two-wheelers and powersports. Bosch offers end-to-end support throughout the entire lifecycle of vehicles with technologies for connectivity, assistance systems, powertrain systems and electrification.

Comprehensive Technology for Individual Configurations and Two-Wheelers

Comprehensive technology for individual configurations and two-wheelers

Bosch offers a comprehensive range of technology for two-wheelers and powersports from a single source. This includes components for vehicle electronics, assistance systems, powertrain systems and electrification. In addition, short distances help saving time and reduce CO₂ emissions. Studies indicate that by 2021, the number of two-wheelers on the road will have increased by a third more than today. To better meet increasing demand and individual manufacturer requirements, Bosch is merging its two-wheeler and powersports activities into one global organization – the Two-Wheeler & Powersports business unit. This unit brings together the enormous worldwide experience of experts from the areas of safety systems, powertrain technology, and connectivity and offers companies an extensive portfolio of systems solutions that service the entire two-wheeler and powersports spectrum from fraud avoidance, high-performance braking systems, to exhaust systems such as fuel, personal audio and navigation.

Optimal System Integration

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The secure transfer of vehicle data to external services and their exploitation, as access to and storage of a wealth of vehicle data. As an innovative technology leader within the mobility sector, Bosch is continuously fine-tuning technology for two-wheelers and powersports worldwide. This includes components for vehicle electronics, assistance systems, powertrain systems and electrification. In addition, short distances help saving time and reduce CO₂ emissions. Studies indicate that by 2021, the number of two-wheelers on the road will have increased by a third more than today. To better meet increasing demand and individual manufacturer requirements, Bosch is merging its two-wheeler and powersports activities into one global organization – the Two-Wheeler & Powersports business unit. This unit brings together the enormous worldwide experience of experts from the areas of safety systems, powertrain technology, and connectivity and offers companies an extensive portfolio of systems solutions that service the entire two-wheeler and powersports spectrum from fraud avoidance, high-performance braking systems, to exhaust systems such as fuel, personal audio and navigation.

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System solutions for two-wheeler and powersports make riding safer, more efficient and fun

PASSION MEETS EXPERTISE

Demand for powerful two-wheeler engines in the two-wheeler and powersports industry is on the rise. Bosch brings connectivity to the fore, enhancing performance and efficiency and ensuring riders are protected. As a technology leader in the mobility sector, Bosch is at the forefront of development in the two-wheeler and powersports segment. The unit is designing individual systems that allow manufacturers to benefit from the latest advances in technology and innovation.

PASSION MEETS EXPERTISE

Bosch’s integrated connectivity cluster (ICC) is an innovative system designed to make life easier for riders by providing access to and storage of a wealth of vehicle data. The ICC uses built-in Wi-Fi connectivity to provide access to additional features such as audio and telecommunication systems.

PASSION MEETS EXPERTISE

Bosch’s motorcycle stability control (MSC) forms the next step in safe, secure riding enjoyment. The system uses four ultrasonic sensors that monitor the vehicle’s surrounding environment to help riders change lanes more safely. This system is especially designed for the braking stability and shortening of stopping distances.

PASSION MEETS EXPERTISE

Bosch brings connectivity to two-wheelers – internally and externally. Intelligently connected on-board systems make life easier for individual manufacturer requirements, Bosch is pooling its resources and expertise to provide new possibilities. One such innovative system is Bosch’s connectivity systems, which uses sensors and cloud data to improve the vehicle’s safety and security. For example, Bosch’s connectivity systems can be used to track the vehicle’s location and send an alert to the owner if the vehicle is stolen.

PASSION MEETS EXPERTISE

Bosch brings new energy to the two-wheeler and powersports sector. Bosch is the market leader for two-wheeler safety systems. These systems reduce the risk of accidents, especially in high-speed situations. Bosch’s ABS (anti-lock braking system) is used primarily in high-performance bikes and offers comprehensive systems expertise for individual manufacturer requirements. Bosch has experts with passion and competence beyond technology.

PASSION MEETS EXPERTISE

When it comes to engine and powertrain systems, Bosch offers the full range of EMS technology with components ranging from the lower power segment to high-performance sports bikes. Bosch constantly invests in the research and development of new technologies to improve the vehicle’s performance. Bosch’s ACC (active cruise control) offers a safe and comfortable way to drive by maintaining a constant distance from the vehicle in front.

PASSION MEETS EXPERTISE

Bosch’s expertise is central to the success of two-wheeler and powersports manufacturers worldwide. Bosch’s Connectivity systems provider with more than 30 years of experience in the powersports business offers a comprehensive range of technology for two-wheelers and powersports from a single source. This includes components for connectivity, assistance systems, powertrain systems and anti-lock braking system (ABS). Bosch offers end-to-end support throughout the entire lifecycle of vehicles with technologies for connectivity, assistance systems, powertrain systems and anti-lock braking system.

PASSION MEETS EXPERTISE

Bosch’s technology are major factors in bringing technically sophisticated and powerful motorcycles to the market. The unit is constantly fine-tuning technology for two-wheelers and powersports to offer benefits to further reduce fuel consumption and CO₂ emissions. Bosch offers the best service possible. In addition, short distances help saving time and reduce costs.

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The main benefits of Bosch two-wheeler and powersports technology

up to 16% of all motorcycle accidents could be prevented if every powered two-wheelers were equipped with ABS.

increased riding fun

in 31% of all powered two-wheeler accidents with casualties in Germany, ABS could reduce collision speed by 46% on average, resulting in much less severe consequences.**

at least 26% of all motorcycle accidents with injuries in Germany could be avoided by MSC.***

more than 2 million Bosch motorcycle ABS systems have been sold until 2016, increasing safety for as many riders.

10 times per second is how often the CCU exchanges information such as location or speed data. Bike-to-vehicle communication makes other drivers aware of the two-wheeler’s presence even if not in sight – and thus increases the rider’s safety.

Components for high-performance bikes
- Electronic fuel control unit
- Inertial measurement unit
- ABS hydraulic unit with control unit
- Electronic engine control unit
- Wheel-speed sensor
- Ultrasonic sensor
- Electronic control unit for ultrasonic sensors
- Semi-active damping control unit
- Camshaft speed sensor
- Knock sensor
- Electric fuel pump and pressure regulator
- Fuel tank
- Electronic throttle body
- Canister purge valve
- Manifold air-pressure and temperature sensor
- Spark plug
- Lambda sensor
- Lithium starter battery

Components for small bikes
- Electronic fuel control unit
- Integrated control cluster
- ABS hydraulic unit with control unit
- Electronic engine control unit
- Wheel-speed sensor
- Electronic sensor
- Electronic control unit for ultrasonic sensors
- Maneuvering damping control unit
- Electronic engine control unit
- Camshaft speed sensor
- Electric fuel pump and pressure regulator
- Fuel tank
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Sources
* Bosch research (2012)
** Bosch Accident Research studies Germany, India & ASEAN (GIDAS 2001–2004, RASSI 2009–2013, PTW ABS Study based on India 2014)
The motorcycle stability control (MSC) forms the next step in safe riding. Worldwide demand for powered two-wheelers is on the rise. Not only are more people using two-wheelers to get around, but also to make riding safer, more efficient and fun. Bosch – your partner for two-wheeler and powersports

COMPREHENSIVE SAFETY SYSTEMS

Bosch brings connectivity to two-wheelers – safety and security. Intelligent connectivity is an important safety feature for motorcycle riders. Bosch offers a comprehensive solution for two-wheelers. This system uses four ultrasonic sensors that monitor the surrounding area and is used primarily in high-performance bikes. The MSC provides increased riding stability, reduces the risk of accidents, and makes riding more enjoyable.

COMPREHENSIVE TECHNOLOGY FOR INDIVIDUAL RIDING

Bosch’s integrated connectivity cluster (ICC) is an innovative information display designed especially for two-wheelers. The ICC includes components for safety, comfort, and communication. The ICC monitors and communicates with other vehicles and the rider. Compact and functional, the ICC includes features such as voice control and smartphone integration.

OPTIMAL SUPPORT FOR THE ENTIRE LIFECYCLE

Long before a product reaches the market, Bosch has teams of experts working continuously and exclusively on two-wheelers and powersports. Bosch offers support throughout the entire lifecycle of a vehicle, with technologies for connectivity, assistance systems, powertrain systems and engine filtration.

TRANSVERSAL AUTOMOTIVE EXPERTISE TO OPTIMIZED TWO-WHEELERS AND POWERSPORTS

Ensuring quality and reliability. The quality and reliability of Bosch technology are major factors in bringing two-wheeler and powersports into the market. Bosch offers a comprehensive solution for two-wheeler and powersport manufacturers. Bosch offers a complete range of components for engine, transmission, safety, and connectivity. Bosch systems are reliable and offer the best possible performance.

Passion and competence beyond technology: Bosch – your partner for two-wheeler and powersports

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TWO-WHEELER AND POWERSPORTS EXPERTS WORLDWIDE FOR EVERY REGION AND MARKET

Global presence for customised safety, assistance systems, powertrain systems and engine filtration. Bosch has extensive experience with two-wheelers and powersports on three continents and across all four seasons. Bosch has experience with models ranging from small two-wheelers and high-performance motorcycles to sports bikes. Bosch offers a complete range of components for engine, transmission, safety, and connectivity. Bosch systems are reliable and offer the best possible performance.

POWERTRAIN SOLUTIONS FOR POWERFUL, ECONOMICAL AND RESPONSIBLE RIDING

Powertrain systems and engine filtration

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Connectivity systems

Connecting two-wheelers to the culture world

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