Press release
Bosch compact

Bosch makes two-wheelers and powersports vehicle fit for the future
EICMA 2019

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- Next generation display: larger screen and smaller frame for better readability
- Advanced riders assistance systems: more safe and comfort
- Powertrain solutions: latest technology for fewer emissions

Milan – Motorcycling is passion, dynamics, and speed. It also provides a unique riding pleasure and a sense of freedom. To make two-wheelers and powersports vehicles fit for the future without compromising the thrill of the ride, Bosch offers a bunch of innovative solutions making it as exciting, safe, and emissions-free as possible. You will find Bosch in Hall 13, Booth G55.

Connectivity: the next step in the evolution of riding safety
Bosch gets two-wheelers and powersports vehicles connected, internally as well as with the outside world. Smart, connected on-board systems assist the rider and enhance safety. Thanks to connected solutions from Bosch, riders no longer have to put up with a lack of access to digital information and entertainment while on the road on their motorcycles and powersports vehicles.

Integrated connectivity cluster (6.5” frameless): For the first time globally at EICMA 2019, Bosch presents the next generation of integrated connectivity cluster (6.5” frameless). The highlight is the size optimization of the device, obtained by the integration of telltales into the TFT screen. It provides a better display to frame ratio, the TFT area is larger compared to outline dimensions. This new seamless design results in a smaller packaging which leads to an increased flexibility in mounting on various types of motorcycle models. Bosch’s integrated connectivity cluster combines traditional instrumentation with a wide range of infotainment features in a single device. The optical bonding and anti-reflection coating enables easy readability of the crystal-clear display in all weather conditions. Even in the rain, direct sunlight or in the dark, the colors are distinct and the contrast is high.

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Simply connected with mySPIN: mySPIN enables riders to bring the smartphone content to their motorcycle, scooter or powersports vehicle via the cluster display. This solution provides an open platform featuring an extensive range of options to all vehicle manufacturers. The system is easy to use. As soon as the smartphone is connected to the vehicle via WLAN, Bluetooth or USB, a wide variety of apps immediately becomes available to the rider on the display.

Safety: on the way to accident-free motorcycling

As the world's leading supplier of motorcycle safety technology, Bosch has already made riding on two wheels considerably safer with safety systems such as ABS and MSC motorcycle stability control. Now the company is going one step further with advanced rider assistance sytems. According to Bosch accident research estimates, radar-based assistance systems could prevent one in seven motorcycle accidents. These electronic assistants are always vigilant and, in emergencies, they respond faster than people can.

Motorcycle stability control (MSC): Bosch developed the first all-in-one safety system for two-wheelers in the world: motorcycle stability control (MSC) has enhanced safety of motorcycle riders since 2013. MSC assists riders during critical low siding situations as well as it immediately counters while braking in bends. This can improve both riding stability and braking performance. For the first time, the Bosch MSC system is installed on an electric motorcycle the Zero SR/F. It shows that increasing demand of safety systems for various type of vehicle including electric motorcycles, and Bosch MSC contributes to increase riding safety for every rider.

Semi-active damping control systems for powersports vehicles: The semi-active damping control system for powersports vehicles enhances the safety, comfort, and dynamics of the drive. Vehicles featuring this semi-active damping control system are equipped with multiple sensors that are used to continuously monitor road conditions, with changes being made almost instantaneously. The sensors also enable the system to increase stability, especially during off-road riding. At the push of a button, the system allows riders to choose and adjust the suspension settings to match their preferences. The semi-active damping control system adjusts actuators in the dampers to reduce vibration and improve not only vehicle stability, but also riding comfort.

Advanced rider assistance systems: The advanced rider assistance systems improve safety and comfort for motorcyclists, comprising adaptive cruise control (ACC), forward collision warning, and blind spot detection. The technology underpinning these systems is a combination of radar sensor, brake system,

engine management, and HMI (human machine interface). The radar functions as a sensory organ providing accurate picture of vehicle's surroundings, improving riding safety and comfort without reducing the enjoyment of riding. The motorcycle manufacturers Ducati and KTM will include the new rider assistance systems in the model production as soon as 2020, which is the beginning of Bosch advanced rider assistance systems production. The systems will also be included in the production models of Kawasaki, starting the series production in 2021.

Powertrain: latest technologies for fewer emissions

As urban mobility today faces great challenges, Bosch develops highly efficient powertrain solutions to help vehicle manufacturer bring down emission levels, and contribute to better air quality. Light electric vehicles with Bosch technology are already making inroads today; in addition to their quiet operation and lower consumption of resources, their advanced technology, user-friendly operation and great dynamics make for maximum riding fun.

System solutions for light electric mobility: At the EICMA 2019, Bosch presents two innovative system approaches for light electric vehicles: the lean drive system and the comprehensive integrated system. The drive system compromises of an electric drive unit and the control unit. The components are harmonized to enable a smooth and efficient riding experience capable of easy integration in vehicles with varying energy management solutions. In comparison to that, the integrated system is comprehensive solution that can be adapted based on the needs of our customers. The system comprises of a drive unit, control unit, battery solution and enables the customers to add different connectivity functionalities. This system can be applied flexibly in different classes of light electric vehicles by multiplying components to ensure the perfect fit to all manufacturer's needs with reduced effort. With the two system approaches, Bosch can ensure high performance, high reliability as well as a unique riding experience to meet the demands of the industry which includes use cases like cargo application and last mile deliveries. The integrated system will be featured at the EICMA 2019 in a Nuuk Urban.

Engine management systems: The Bosch engine management systems can help two-wheeler manufacturer to fulfill future emission regulations such as Euro 5 and BS 6 (Bharat stage 6) including OBD I/II. In combination with sensor technology, the engine management systems have achieved considerable increases in efficiency compared to conventional carburetor.

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Mobility Solutions is the largest Bosch Group business sector. In 2018, its sales came to 47.6 billion euros, or 61 percent of total group sales. This makes the Bosch Group one of the leading automotive suppliers. The Mobility Solutions business sector pursues a vision of mobility that is accident-free. emissions-free, and fascinating, and combines the group's expertise in the domains of automation, electrification, and connectivity. For its customers, the outcome is integrated mobility solutions. The business sector's main areas of activity are injection technology and powertrain peripherals for internal-combustion engines, diverse solutions for powertrain electrification, vehicle safety systems, driver-assistance and automated functions, technology for user-friendly infotainment as well as vehicle-to-vehicle and vehicle-to-infrastructure communication, repair-shop concepts, and technology and services for the automotive aftermarket. Bosch is synonymous with important automotive innovations, such as electronic engine management, the ESP anti-skid system, and common-rail diesel technology.

The Bosch Group is a leading global supplier of technology and services. It employs roughly 410,000 associates worldwide (as of December 31, 2018). The company generated sales of 78.5 billion euros in 2018. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 460 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At nearly 130 locations across the globe, Bosch employs some 68,700 associates in research and development.

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