

Media information
02 May 2024

BMW Motorrad presents the Automated Shift Assistant (ASA). Fully automated clutch operation with manual or automated shifting for even more riding enjoyment.



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Munich. With the new Automated Shift Assistant (ASA), BMW Motorrad presents an innovative technical solution that makes riding simpler and more comfortable. True to the motto "Simplify your ride", the riding experience is further enhanced by the automation of the clutch and gearshifting, without sacrificing the emotionally important dynamics of shifting.

The Automated Shift Assistant features a clever functional design in which two electromechanical actuators automate the clutch and gearshift of the six-speed transmission, which is the main difference to a conventional shift assistant. There is no need for a hand lever to operate the clutch manually. Starting, stopping and manoeuvring are made easy with the Automated Shift Assistant.

Riding with the Automated Shift Assistant also becomes more enjoyable thanks to fast, rev- and load-adapted shift sequences and the resulting precise gear changes.



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The rider's workload is reduced, which makes riding even more enjoyable. In addition, the Automated Shift Assistant creates an even more direct connection with the powerful boxer engine, as the precise clutch actuation makes it even easier to control the riding experience via the throttle grip and gearshift lever.

In 'M' shift mode, gear changes can still be made by foot control, allowing the rider to decide when to change gears.

In 'D' shift mode, the Automatic Shift Assistant really comes into its own. Shift points are automatically selected by the engine control unit. In both "M" and "D" modes, the rider benefits from perfectly executed gear changes with a smooth interruption of traction. The result is efficient motorcycle acceleration and increased riding stability.

When shifting up, for example, the jolt associated with a classic manual transmission with a manual clutch is largely eliminated, as is the risk of helmet contact between rider and passenger.

Downshifts are also designed to be as smooth as possible, minimising chassis disturbances. Specific characteristics of the automated shift function are assigned to the different riding modes to ensure perfect shift behaviour in each riding situation. In combination with Active Cruise Control or front collision warning, the networking of functions also brings the future of motorcycling to life.

Automated clutch and gear shifting for a new riding experience.

In difficult riding situations, using the clutch and throttle takes a lot of concentration. If you are travelling with luggage and perhaps a passenger, using the clutch and gearshift takes up resources. The rider remains in control and has more freedom in every riding situation with the Automated Shift Assistant. Riding becomes a more relaxed and enjoyable experience.



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The powerful boxer engine enables almost effortless pulling away on uphill gradients, for example, thanks to automated clutch operation, which also pays dividends in terms of better vehicle control off-road or on difficult surfaces.

Riding pleasure takes on a whole new meaning when you choose the automated D mode. Optimally selected gear changes create a new riding sensation with a more intense driving experience. The right gear is automatically selected according to the rider's individual riding needs, resulting in a harmonious and extremely smooth driving experience.

Electromechanical clutch and gearshift actuators combined with sophisticated electronic controls.

The Automated Shift Assistant is the logical and technical evolution of the BMW Motorrad Shift Assistant Pro. Two electronically controlled electromechanical actuators operate the clutch and gearshift, enabling easy starting and automated gear changes.

The rider's shift request is transmitted to the control unit via a gearshift lever sensor, which is actuated by the conventional foot-operated gearshift lever. Additional sensors determine the revs of the transmission input shaft and the clutch position. These values are transmitted to the TCU (Transmission Control Unit), which is closely linked to the engine control unit, for modelling and control of the clutch, shift actuation and status.

The clutch is operated by an electro-mechanical actuator combined with a hydraulic system with a direct hydraulic connection between the clutch master and slave cylinders. The actuator regulates the required clutch slip, engages the clutch when changing gear and disengages it when stopping.

In manual shift mode "M", the rider can move the gearshift lever in the desired direction in the usual way. If the revs in the desired target gear are within the maximum or minimum rev range, the shift is made directly. If the engine revs fall below a gear-dependent



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minimum speed, downshifts are also performed automatically in manual mode. This prevents the engine from stalling.

In shift mode "D" the gears are changed automatically depending on the riding mode, engine revs, throttle position and lean angle parameters. Gears are shifted according to the riding situation and dynamic requirements.

The benefits of the Automatic Shift Assistant (ASA) can be summarised as follows

- Completely eliminates the need for the rider to operate the clutch.
- Dynamic and comfortable gear changes for more riding pleasure.
- Choice of manual or automatic gear shifting.
- Automatically adapts gear shifts to the rider's dynamic preferences in automated D mode.
- Eliminates the possibility of engine stalling due to unfavourable gear shifts.

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The BMW Group

With its four brands BMW, MINI, Rolls-Royce and BMW Motorrad, the BMW Group is the world's leading premium manufacturer of automobiles and motorcycles and also provides premium financial and mobility services. The BMW Group production network comprises over 30 production sites worldwide; the company has a global sales network in more than 140 countries.

In 2023, the BMW Group sold over 2.55 million passenger vehicles and more than 209,000 motorcycles worldwide. The profit before tax in the financial year 2023 was € 17.1 billion on revenues amounting to € 155.5 billion. As of 31 December 2023, the BMW Group had a workforce of 154,950 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company set the course for the future at an early stage and consistently makes sustainability and efficient resource management central to its strategic direction, from the supply chain through production to the end of the use phase of all products.

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