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## BMW Concept M4 GTS to be Premiered During Monterey Car Week.

The First M3/ M4 Special Production Car to be Sold in the US.

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A year on from the launch of the BMW M4 Coupe, BMW M GmbH is presenting an initial preview of a high-performance model for use on the road and on the race track: the BMW Concept M4 GTS – the first M3/M4 special production vehicle to be sold in the US.

The BMW M GmbH was founded in 1972 as BMW Motorsport GmbH and caused a sensation with its iconic BMW M1 racing car. As the force behind the world's most successful racing touring car, the Group A BMW M3 and the development of the first turbocharged engine to win the Formula One World Championship, the BMW M GmbH return to its racing roots with the BMW Concept M4 GTS.

The BMW Concept M4 GTS continues the tradition of BMW M3 special models already illuminated by the BMW M3 Evolution (1988), BMW M3 Sport Evolution (1990), BMW M3 GT (1995), BMW M3 CSL (2003), BMW M3 GTS (2010) and BMW M3 CRT (2011). Technology honed in race competition, a hike in power, a commitment to lightweight design and limited production numbers with unbeatable performance coupled with a powerful and exclusive driving experience.

"While the BMW M4 Coupe embodies the ideal combination of motor sport genes and unrestricted everyday usability, the BMW Concept M4 GTS previews an emotionally powerful and exclusive special model conceived with an eye for trailblazing technology and a keen focus on the race track," explains Frank van Meel, Chairman of the Board of

Management of BMW M GmbH. "Despite its outstanding track ability, it is still fully road-legal. This is racing technology for the road in the truest sense."

The BMW Concept M4 GTS showcases new technologies which will debut in production vehicles later this year. The BMW Concept M4 GTS features the innovative water injection system that has already provided a significant output and torque boost in the BMW M4 MotoGP Safety Car. In addition, the BMW Concept M4 GTS has rear lights with OLED (organic light-emitting diode) technology for an unmistakable appearance.

### Optimized down to the finest detail.

The BMW Concept M4 GTS builds on the BMW M4 Coupe's dynamic and emotional use of forms. Yet its character as a high-performance special model, in which every detail has been developed to fulfil its purpose as a successful track machine, also comes immediately to the fore. The manually adjustable front splitter and rear wing – both in exposed carbon – ensure perfect aerodynamic balance on the race tracks and on the road. Another example of the engineers' rigorous adherence to lightweight design is the CFRP (carbon-fiber-reinforced plastic) hood which lowers the car's weight and center of gravity. A wide front air intake optimizes airflow and minimizes front axle lift.

The dynamic and exclusive presence of the BMW Concept M4 GTS is accentuated by the exterior paint shade Frozen Dark Grey metallic, with the Acid Orange accent on the front splitter creating an effective contrast. The lightweight, forged and polished light-alloy wheels in 666 M styling also feature an Acid Orange accent. The 9.5 J  $\times$  19 (front) and 10.5 J  $\times$  20 (rear) wheels are fitted with Michelin Sport Cup 2 tires (265/35 R19 at the front, 285/30 R20 at the rear). The mixed-size tires provide the ideal conduit for the stand-out dynamic attributes of the BMW Concept M4 GTS.

#### Water injection: power up, full-load fuel consumption down.

The engine powering the BMW Concept M4 GTS is equipped with the same innovative water injection system that has endowed the BMW M4 MotoGP Safety Car with a noticeable increase in output and torque.

The water injection system introduced by BMW M GmbH sees the engineers using the physical effect of water when vaporizing to draw the required energy from the ambient medium. The water is injected into the plenums of the intake manifold as a fine spray. When water vaporizes and goes through its phase transition absorbs heat, cooling the air intake

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significantly. As a result, the final compression temperature in the combustion chamber – and therefore the engine's tendency to "knock" – is reduced, enabling the turbocharged engine to use higher boost pressure and earlier injection timing.

This technology ensures an increase in output and torque, while at the same time reducing the thermal stress on performance-relevant components. All of which also enhances the stability and durability of the turbocharged engine. The BMW Concept M4 GTS brings high-performance technology directly from the race track to the road.

The strong performance potential of the turbocharged six-cylinder in-line engine already demands an exceptionally sophisticated thermal management system for the engine and ancillary units. To ensure optimal operating temperatures in all situations, the M GmbH engineers have developed a highly innovative and effective cooling system. It comprises a main radiator plus additional radiators for the high- and low-temperature circuits, transmission and turbocharger in order to keep temperatures stable. The turbochargers are cooled by means of an indirect intercooler, assisted by an additional electric water pump.

## **OLED** rear lights radiate ultra-high precision.

The BMW Concept M4 GTS is fitted with innovative rear lights featuring OLED (organic light-emitting diodes) technology, a new type of light source producing full-surface and homogenous illumination. Their low installation height of just 1.4 millimeters and the ability to actuate individual light modules which emit light to a single point provide flexibility and allow for precision.

The world premiere of the BMW Concept M4 GTS takes place at the Pebble Beach Concours D'Elegance in Monterey, California on August 13, 2015. More details on the production version will be revealed at a later date.

#### **BMW Group in America**

BMW of North America, LLC has been present in the United States since 1975. Rolls-Royce Motor Cars NA, LLC began distributing vehicles in 2003. The BMW Group in the United States has grown to include marketing, sales, and financial service organizations for the BMW brand of motor vehicles, including motorcycles, the MINI brand, and Rolls-Royce Motor Cars; Designworks, a strategic design consultancy based in California; a technology office in Silicon Valley and various other operations throughout the country. BMW

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