



Media Information  
18 February 2020

## **When efficiency and sporting excellence combine: the new BMW M340d xDrive Sedan and new BMW M340d xDrive Touring.**

**New additions to the selection of BMW M models in the new BMW 3 Series range – Six-cylinder in-line diesel engine with 250 kW/340 hp and 700 Nm (516 lb-ft) generates imposing pulling power – Supreme efficiency courtesy of BMW TwinPower Turbo and mild hybrid technologies – M Sport suspension, variable sport steering, M Sport differential and intelligent all-wheel drive combine to deliver standout performance.**

**Munich.** Two extremely efficient high-performance models are joining the BMW M line-up in the premium midsize segment. The six-cylinder in-line diesel engine with BMW TwinPower Turbo technology fitted in the BMW M340d xDrive Sedan (fuel consumption combined: 5.7 – 5.3 l/100 km [49.6 – 53.3 mpg imp]; CO<sub>2</sub> emissions combined: 149 – 139 g/km) and BMW M340d xDrive Touring (fuel consumption combined: 5.8 – 5.4 l/100 km [48.7 – 52.3 mpg imp]; CO<sub>2</sub> emissions combined: 153 – 143 g/km) produces exceptional pulling power while attaining similarly impressive levels of efficiency. The 3.0-litre unit generates maximum output of 250 kW/340 hp and peak torque of 700 Nm (516 lb-ft). The inclusion of 48V mild hybrid technology, meanwhile, has led to a further reduction in fuel consumption and emissions. Thanks to their comprehensive arsenal of exhaust gas treatment technologies, including an SCR catalytic converter with AdBlue injection, the most powerful diesel variants of the new BMW 3 Series also comply with the future Euro 6d emissions standard.

The arrival of the new BMW M340d xDrive Sedan and BMW M340d xDrive Touring in April 2020 bring that inimitable M feeling to a diesel-fuelled BMW 3 Series for the first time. The potent engine in the new BMW M models teams up with an eight-speed Steptronic Sport transmission, bespoke chassis technology and intelligent all-wheel drive. M Sport suspension – including variable sport steering – and M Sport brakes are fitted as standard on both models, likewise the M Sport differential. M-specific exterior features with optimised aerodynamic properties are part of an overall package that leaves no stone unturned in the provision of supreme performance. The new

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BMW M340d xDrive Sedan accelerates from 0 to 100 km/h (62 mph) in just 4.6 seconds, while the new BMW M340d xDrive Touring completes the same sprint in 4.8 seconds. The combination of pulsating driving characteristics and a cockpit focusing squarely on the enjoyment of intense driving pleasure guarantees an enthralling experience of high performance at work.

### **Exceptional power delivery meets exemplary efficiency: the six-cylinder in-line diesel engine with BMW TwinPower Turbo technology and 250 kW/340 hp.**

The new M models in the BMW 3 Series line-up owe their unmistakable character in no small part to outstanding power delivery coupled with rock-bottom fuel consumption and emissions given the performance at hand. Their 3.0-litre six-cylinder in-line diesel engine features a crankcase and cylinder head both made from aluminium. Frictional losses in the base engine are reduced by measures including a wire-arc sprayed steel coating for the cylinder bores.

The power unit's BMW TwinPower Turbo technology comprises a two-stage turbocharging system with optimised thermodynamics and direct charge air cooling, along with common-rail direct injection using piezo injectors. To ensure exceptionally sharp turbocharger response, the system's high-pressure and low-pressure stages both feature variable turbine geometry. The further developed direct injection system, whose injectors now operate at a maximum 2,700 bar, ensures a precisely metered supply of fuel and extremely clean combustion. Integral pressure sensors enable up to ten injections per stroke. Engine response and efficiency also benefit from an intake system with optimised air routing, whose upgraded design enhances the power unit's acoustics as well. Extensive engine encapsulation measures ensure the straight-six is particularly easy on the ears – and at the same time helps to optimise warm-up behaviour. Specially developed for the new BMW M340d xDrive Sedan and BMW M340d xDrive Touring, the diesel unit's peak torque of 700 Nm (516 lb-ft) is on stream from just 1,750 rpm, while maximum output of 250 kW/340 hp arrives at 4,400 rpm.

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### **Mild hybrid technology with a 48V starter-generator increases dynamism and efficiency.**

The inclusion of mild hybrid technology allows the engine to build power with an even greater sense of urgency. The 48V starter-generator fitted in the new BMW M models creates an electric boost effect that instantly puts an additional 8 kW/11 hp on tap. This extra input augments power delivery under hard acceleration and increases efficiency at regular speeds. The electrical power required here is stored in a 48V battery that is charged by recuperating energy under braking or on the overrun. Plus, additional energy can be supplied to the 48V battery by raising the engine's load point.

The power generated in this way assists the engine when travelling at a constant speed, too, meaning it can operate within an efficiency-optimised load range as often as possible. As a result, there are fewer spikes in fuel consumption. The mild hybrid technology has the additional benefit of improving the operation of the Auto Start Stop and coasting functions. The 48V generator allows the engine to be deactivated with very little vibration and restarted smoothly during brief stops at junctions or in traffic jams. When braking, the engine can be switched off at speeds below 15 km/h (9 mph) already. The coasting function available when the Driving Experience Control switch is set to ECO PRO or COMFORT mode also shuts the engine down completely, creating further potential for lowering fuel consumption.

### **M Sport exhaust system generates stirring soundtrack, exhaust gas treatment complies with the Euro 6d emissions standard.**

The straight-six diesel engine in the new BMW M340d xDrive Sedan and BMW M340d xDrive Touring backs its exhilarating power delivery with a highly distinctive aural accompaniment. Both models are equipped as standard with an M Sport exhaust system whose rear silencer culminates in a pair of trapezoidal tailpipes.

With a view to minimising emissions, the diesel engine in the new BMW M340d xDrive Sedan and BMW M340d xDrive Touring includes an efficient low-pressure exhaust gas recirculation circuit and an extremely powerful

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three-way high-pressure exhaust gas recirculation circuit. Added to which, the two-stage NO<sub>x</sub> exhaust re-treatment system fitted as standard by BMW in diesel-engined models since 2012 has been further developed. The close-to-engine component of the exhaust gas treatment system with BMW BluePerformance technology comprises a diesel oxidation catalyst and an SCR coating in the diesel particulate filter. A second SCR catalyst has been integrated at the exit of the close-to-engine system to minimise nitrogen oxide emissions (NO<sub>x</sub>). The new BMW M models in the BMW 3 Series range therefore comply with the requirements of the Euro 6d emissions standard not due to come into force until 2021.

### **Sublime power transfer: eight-speed Steptronic Sport transmission, BMW xDrive and M Sport differential as standard.**

The powerful straight-six diesel hooks up as standard with the latest-generation eight-speed Steptronic Sport transmission, whose ratio spacing is perfectly attuned to the power unit's performance characteristics. As well as super-sharp gear shifts, the transmission stands out with its optimised hydraulic control system, low converter slip and effective damping of rotational irregularities. Shift paddles on the steering wheel enable lightning-fast manual interventions in the gear selection process. There is also a Launch Control function for accelerating off the line with full dynamic intent.

The intelligent all-wheel-drive system in the new BMW M340d xDrive Sedan and BMW M340d xDrive Touring enables fully variable distribution of drive power between the front and rear wheels using an electronically controlled multi-plate clutch in the transfer case. Working in tandem with the DSC (Dynamic Stability Control) system, BMW xDrive reacts to changes in the driving situation with great precision and in a fraction of a second, maximising traction, agility and handling stability in all weather and road surface conditions, and when the driver explores the car's sporting capabilities. The system's rear-biased setup helps to produce the driving experience expected of an M car, and is especially pronounced with the Driving Experience Control switch set to SPORT or SPORT+ mode. Judicious apportioning of even more power to the rear wheels increases turn-in agility, in particular.

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The M Sport differential for the rear axle – another standard feature linked with both DSC and the all-wheel-drive system – ensures power is transferred to the road with even greater precision. The fully variable locking function is able to limit speed equalisation between the inside and outside wheel through corners so that the car's agility and cornering prowess rise to new levels under hard driving. This helps the driver to power out of bends with extra dynamic verve. In situations where the road surface offers differing levels of adhesion for the left and right rear wheels, the M Sport differential increases traction and handling stability by preventing slip at the wheel struggling for grip.

### **Standard: M Sport suspension and variable sport steering.**

Like the engine and power transmission tech, the chassis systems on board the BMW M340d xDrive Sedan and BMW M340d xDrive Touring are designed to deliver supreme performance. Both models are equipped as standard with M Sport suspension, which extracts the full dynamic handling potential offered by the double-joint spring strut front axle / five-link rear axle combination on the new BMW 3 Series to exhilarating effect. The M Sport package brings a ten-millimetre drop in ride height, M-specific elastokinematics and lift-related dampers. The latter combine extra hydraulic damping on rebound at the front axle with a compression-limiting system at the rear, enabling continuously variable, progressive adjustment of damper firmness in response to spring travel. Vibrations experienced during dynamic cornering or on bumpy road surfaces can therefore be smoothed out with unruffled assurance.

Alternatively, customers can opt for Adaptive M suspension with electronically controlled dampers. This system of damper control offers extremely finely metered spring and damping responses and adapts constantly to both driving style and road surface conditions. The compression and rebound stages are tweaked independently of one another to match the situation at hand. The damping characteristics can be adjusted using the Driving Experience Control switch. SPORT and SPORT+ modes optimise dynamic driving and create a noticeable contrast to the more comfort-oriented damper responses in COMFORT and ECO PRO modes.

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Both the standard M Sport suspension and optional Adaptive M suspension join forces with variable sport steering, whose Servotronic speed-sensitive power assistance helps to give the cars unshakable straight-line poise and accurate turn-in through dynamically taken corners. The variable ratio adjusts to changes in the steering angle, further enhancing comfort. It allows drivers to perform low-speed manoeuvres with minimal steering wheel movement and without changing their grip on the wheel, at the same time as increasing agility on twisty sections of road.

### **M Sport brakes and M light-alloy wheels with mixed-size tyres.**

Outstanding stopping power and a pointedly sporty setup – headlined by short pedal travel and a distinct pressure point – are the defining characteristics of the M Sport brakes (also standard). Four-piston fixed callipers and 348-millimetre discs at the front wheels and single-piston floating callipers with 345-millimetre discs at the rear form the basis for safe, supremely assured handling, while blue-painted callipers bearing the M logo add a visual flourish.

Rounding off the chassis highlights on the new BMW M340d xDrive Sedan and BMW M340d xDrive Touring are 18-inch M light-alloy wheels with mixed-size tyres measuring 225/45 R 18 at the front and 255/40 R 18 at the rear. 19-inch M light-alloy wheels in three designs can be found on the options list alongside 19-inch BMW Individual light-alloy wheels, again with mixed-size tyres. The 19-inch M light-alloy wheels are also available with high-performance tyres.

### **M-specific design features for the exterior and interior.**

Signature BMW M exterior design features help to give the new BMW M340d xDrive Sedan and BMW M340d xDrive Touring a distinctive look that re-asserts their outstanding performance capabilities. The front apron, side skirts and rear styling of both models have been crafted to fulfil functional requirements in terms of cooling air supply and aerodynamics. The new BMW M340d xDrive Sedan adds a body-coloured M rear spoiler to the mix. The bespoke design elements on both models also include a mesh-design BMW kidney grille and trapezoidal exhaust tailpipes. BMW Individual High-gloss

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Shadowline trim and a Cerium Grey metallic finish for the exterior mirror caps, the air intake trim in the front bumper, the surface of the BMW kidney grille mesh and its surround, the tailpipes, and the model badge add to the exclusive appearance of the BMW M duo.

The interior's styling and equipment are focused entirely on maximising enjoyment of the intense driving experience served up by the car. The standard sports seats for the driver and front passenger are upholstered in an M-specific combination of Sensatec and Alcantara with contrast quilting in Blue, while an anthracite-coloured BMW Individual headliner, an M leather steering wheel with multifunction buttons and shift paddles, M pedals, M-specific floor mats and interior trim strips in Aluminium Tetragon with accent strips in Pearl-effect Chrome bring further touches of sporting flair to the interior.

As well as bespoke powertrain / chassis technology and M-specific design features, the standard equipment roster for the BMW M340d xDrive Sedan and BMW M340d xDrive Touring also includes three-zone automatic climate control (with separate operation of the temperature and ventilation settings both for the driver and front passenger side and the rear compartment), ambient lighting, extended storage and an automatically dimming rear-view mirror. Also featured as standard in the new BMW M models are Park Distance Control with sensors at the front and rear, BMW Live Cockpit Plus complete with navigation system and 8.8-inch Control Display, and the Connected Package Plus including Real Time Traffic Information, Remote Services, Concierge Services and Apple CarPlay preparation.

The fuel consumption, CO<sub>2</sub> emissions, electric power consumption and electric range figures are determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

The values are based on the new WLTP test cycle and are translated back into NEDC-equivalent values in order to ensure comparability between the vehicles. With respect to these vehicles, for vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions, the CO<sub>2</sub> values may differ from the values stated here (depending on national legislation).

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Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2/>.

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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 31 production and assembly facilities in 15 countries; the company has a global sales network in more than 140 countries.

In 2019, the BMW Group sold over 2,520,000 passenger vehicles and more than 175,000 motorcycles worldwide. The profit before tax in the financial year 2018 was € 9.815 billion on revenues amounting to € 97.480 billion. As of 31 December 2018, the BMW Group had a workforce of 134,682 employees.

The success of the BMW Group has always been based on long-term thinking and responsible action. The company has therefore established ecological and social sustainability throughout the value chain, comprehensive product responsibility and a clear commitment to conserving resources as an integral part of its strategy.

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