

# The new BMW 1 Series. Contents.



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# The new BMW 1 Series: Model variants for market launch.



## **BMW 120:**

In-line three-cylinder petrol engine, 48-volt mild hybrid technology, 7-speed Steptronic transmission with dual clutch,

### **total vehicle drive:**

Power output: 125 kW/170 hp, torque: 280 Nm (206 lb-ft)\*,

### **BMW TwinPower Turbo engine:**

Displacement: 1,499 cc,

nominal power output: 115 kW/156 hp at 4,700 – 6,500 rpm,

nominal torque: 240 Nm (177 lb-ft) at 1,500 – 4,400 rpm,

### **electric motor:**

Nominal power output: 15 kW/20 hp,

rated torque: 55 Nm (41 lb-ft),

### **performance / consumption / emissions:**

Acceleration [0 – 100 km/h (62 mph)]: 7.8 seconds,

top speed: 226 km/h, (140 mph)

combined consumption according to WLTP: 6.0 – 5.3 l/100 km (62 miles),

CO<sub>2</sub> emissions combined according to WLTP: 135 – 121 g/km,

emissions standard: Euro 6e,

CO<sub>2</sub> class(es): D.

## **BMW M135 xDrive:**

In-line four-cylinder petrol engine, 7-speed Steptronic transmission with dual clutch, BMW xDrive,

displacement: 1,998 cc, power output: 221 kW/333 hp at 5,750 – 6,500 rpm,

max. torque: 400 Nm (295 lb-ft) at 2,000 – 4,500 rpm,

acceleration [0 – 100 km/h (62 mph)]: 4.9 seconds,

top speed: 250 km/h, (155 mph)

combined consumption according to WLTP: 8.1 – 7.6 l/100 km (62 miles),

CO<sub>2</sub> emissions combined according to WLTP: 184 – 173 g/km,

emissions standard: Euro 6e,

CO<sub>2</sub> class(es): G – F.

### **BMW 120d:**

In-line four-cylinder diesel engine, 48-volt mild hybrid technology, 7-speed Steptronic transmission with dual clutch,

#### **total vehicle drive:**

Power output: 120 kW/163 hp, torque: 400 Nm (295 lb-ft)\*,

#### **BMW TwinPower Turbo engine:**

Displacement: 1,998 cc, power output: 110 kW/150 hp at 3,750 – 4,000 rpm,

max. torque: 360 Nm (266 lb-ft) at 1,500 – 2,500 rpm,

#### **electric motor:**

Nominal power output: 15 kW/20 hp,

rated torque: 55 Nm (41 lb-ft),

#### **Performance / consumption / emissions:**

Acceleration [0 – 100 km/h (62 mph)]: 7.9 seconds,

top speed: 222 km/h, (138 mph)

combined consumption according to WLTP: 4.8 – 4.3 l/100 km (62 miles),

CO<sub>2</sub> emissions combined according to WLTP: 125 – 112 g/km, emissions standard: Euro 6e,

CO<sub>2</sub> class(es): D – C.

\*is made up of internal combustion engine drive (stated nominal value) and electric drive (up to stated nominal value)

All performance, consumption, emission and range values are provisional.

All the model variants, equipment levels, technical specifications, consumption and emission values described correspond to what is available on the automotive market in Germany, provided the respective vehicle is offered there. Deviations in other markets are possible. The information on the dimensions refers to a vehicle in basic equipment in Germany, depending on the selected wheel and tyre size as well as selected optional equipment. These may change according how the car is configured.

Official figures for fuel consumption, CO<sub>2</sub> emissions and power consumption were measured using the stipulated method and comply with Regulation VO (EC) 715/2007 as amended. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.



# Vehicle concept and design.

## The pioneer of driving pleasure in the premium compact segment is sharpening its sporty profile.

The BMW 1 Series, pioneer of driving pleasure in the premium compact segment, is entering its fourth model generation. With a dynamic design presence, a completely revised drive portfolio and extensively improved chassis technology, it has sharpened its profile as the sportiest vehicle in the competitive environment. Highly efficient engines with 48-volt mild hybrid technology and a production process designed to conserve resources and recycle materials optimise sustainability throughout the entire product life cycle. In addition, the new BMW 1 Series underlines its progressive character with a redesigned interior, an increased selection of systems for automated driving and parking, as well as the new BMW iDrive with QuickSelect and innovative digital services based on the BMW Operating System 9.

The fourth generation of the BMW 1 Series will also be produced at BMW Group Plant Leipzig. Its market launch is scheduled for October 2024. Europe is the most important sales region, accounting for around 80 per cent of total sales. After Germany, Italy, Great Britain and Spain, Japan is also one of the top five markets for the new BMW 1 Series.

### **For 20 years now: Driving pleasure in the compact segment.**

Sporty, agile handling and a dynamic charisma are in the BMW 1 Series genes. The first generation was launched with these characteristics 20 years ago. Driving pleasure and BMW style premium mobility were available in the compact segment for the first time. New target groups were attracted to the brand's typical characteristics, laying the foundation for the success that continues to this day in this still rapidly growing segment. Since 2004, more than 3 million units of the BMW 1 Series have been delivered to customers.

The tradition of the BMW 1 Series also includes its pioneering role in the areas of driving dynamics and efficiency. The BMW 1 Series M Coupé was developed on the basis of the first model generation. It was the first high-performance car from BMW M GmbH in the compact segment. Today, it is a symbol of purist driving pleasure and the forerunner of the highly successful BMW M2. In the third generation of the BMW 1 Series, the directly control wheel slip limitation system made its debut in a production vehicle. The particularly fast and precise traction control

system is now an integral part of the chassis control systems in numerous other BMW models. The BMW 1 Series was also the first vehicle to feature groundbreaking technology designed to enhance sustainability. As early as 2007, it was the first BMW model series to be fitted with extensive EfficientDynamics measures as standard. The BMW Active E, the brand's first electric vehicle for everyday use, was also based on a BMW 1 Series.

### **Typical BMW proportions in a compact format.**

The sporty character of the BMW 1 Series is underlined in the new model generation by the typical BMW proportions. A long bonnet, short overhangs, a wide wheelbase and a passenger cell set well back with the characteristic Hofmeister kink in the rear side window graphic are unmistakable features that are combined in the new edition with a particularly dynamic front and a powerfully modelled rear.

The dimensions of the five-door model have changed only slightly compared to its predecessor. The exterior length of the new BMW 1 Series has increased by 42 millimetres to 4,361 millimetres, while the wheelbase is 2,670 millimetres. The vehicle width is 1,800 millimetres, while the height has increased by 25 millimetres to 1,459 millimetres. Despite its compact dimensions, the BMW 1 Series, based on a modern front-wheel drive architecture, offers generous space for up to five passengers and their luggage.

### **Flat front end with new headlight design and BMW radiator grille.**

With its strikingly flat front end, the new BMW 1 Series sits significantly lower to the road than its predecessor, underlining its sporty character. This focus on the road is further emphasised by the wide, black central lower air intake. Vertical side openings emphasise the width and solid stature of the vehicle. Clearly defined surfaces and striking lines give the front apron a modern and focused appearance.

The wide, forward-leaning BMW radiator grille features a new structure of vertical and diagonal bars. The resulting pattern is repeated not only in the optional logo projection from the exterior mirrors, but also in the design of the trim in the interior. This creates a stylistic link between the exterior and interior design.

The headlights, which are set above the BMW radiator grille and extend well into the wheel arches, show the brand's typical four-eyed face in a modern interpretation. All lighting functions use LED technology as standard. Two vertical, slightly arrow-shaped LED units provide the

position and daytime running lights and turn indicators. Adaptive LED headlights with glare-free matrix high beam as well as city, highway and adverse weather lights are available as optional equipment. They also feature blue accents and a cornering light function.

**Silhouette with dynamic wedge shape, powerful rear.**

The side view of the new BMW 1 Series is also characterised by clearly defined surfaces. The long bonnet, the forward-leaning BMW radiator grille, the sweeping roofline and the flat side window graphics that taper towards the rear create a dynamic wedge shape. The new BMW 1 Series comes with a BMW Individual high-gloss Shadow Line as standard. The black side window surround also features a graphic element with the embossed number 1 in the area of the Hofmeister kink counter-swing on the C-pillar. A long roof spoiler and side air deflectors also contribute to the stretched silhouette. Striking side skirts add to the sporty appearance.

Generous surface contours and precise, outward-facing lines give the rear a powerful and wide appearance. In this area of the body, too, the new BMW 1 Series features a targeted combination of design features that make it a particularly sporty compact model. Vertical side reflectors and a black diffuser-like insert are integrated into the distinctive rear apron. With the exception of the new BMW M135 xDrive, the exhaust tailpipes of all model variants are invisibly integrated into the rear apron. The flat rear lights protrude into both the luggage compartment lid and the side section, highlighting the widely flared rear wheel arches. The design of the light sources inside the headlights is echoed by vertically aligned LED elements for the rear light and turn indicators.

**First BMW model with a contrasting roof colour.**

The paint finishes for the new BMW 1 Series include two solid colours and seven metallic colours. Four BMW Individual paint finishes and a wide range of BMW Individual special paint finishes are also available.

The new BMW 1 Series is the first model in the brand's range to be available with an optional contrasting roof paint finish. The high-gloss black roof finish adds to the sporty appearance of the compact model.

**Dynamic appearance with M Sport Package and M Sport Design.**

The optional M Sport Package and the M Sport Design optional equipment available at market launch in Europe make the new BMW 1 Series even more dynamic. The unique exterior design features include a front apron with extra-large air intakes, M specific side skirts

and a particularly powerful rear apron with a three-dimensional diffuser element.

In addition, the front, side and rear sections are linked by a black body surround, giving the car a particularly flat and road-hugging appearance from all angles. The standard 17-inch light alloy wheels are replaced by 18-inch M light alloy wheels with a Y-spoke design in conjunction with the M Sport Package and M Sport Design. In addition to the M Sport Package, the M Sport Package Pro is also available, which includes an M high-gloss Shadow Line with extended features and an M rear spoiler.

## **Interior and equipment.**

### **Progressive cockpit, clean design, high-quality feel.**



Clear design, sporty driver orientation, modern controls and innovative equipment features characterise the interior of the new BMW 1 Series. Its interior has been completely redesigned and conveys the driving pleasure typical of the brand in a high-quality ambience. Lines, surface textures and individual details give the interior a modern, youthful and fresh style. The premium character of the new BMW 1 Series is underscored not only by the precisely crafted materials but also by the significantly higher level of standard equipment compared with the previous model. With the optional M Sport Package and the M Sport Package Pro, the dynamic appearance of the compact model is also emphasised in the interior. In addition, new equipment packages allow customers to personalise their BMW 1 Series in terms of design, comfort and driving experience.

The centrepiece of the progressive cockpit design is the BMW Curved Display. It serves as the stage for the new BMW iDrive based on the BMW Operating System 9. The number of buttons and controls on the instrument panel and centre console has been significantly reduced through the consistent digitalisation of the display and operating system. The control panel between the driver and front passenger, including the gear selector, has also been redesigned.

#### **New seats, generous space, modern functionality.**

The new BMW 1 Series offers generous space for up to five passengers, with easy access and generous legroom in the rear. The newly designed seats offer optimised lateral support and a high level of long-distance comfort. The optional M sport seats for the driver and front passenger feature distinctive side bolsters and seat depth adjustment. M sport seats with integrated head rests are also available, featuring a cut-out in the upper part of the backrest and an illuminated M logo.

To optimise occupant protection, the new seats are combined with advanced restraint systems. The new BMW 1 Series comes as standard with three-point inertia-reel seat belts on all seats, as well as front, side and head airbags and heated seats. To protect the occupants in the event of a side impact, a curtain airbag is activated between the driver and front passenger at the front.

A wide range of electric adjustments, including memory on the driver's side, are available as options for all seat versions. With the exception of the seat depth and headrest height, which are adjusted manually, all adjustments can be made from an integrated control panel. A lumbar support in the backrest with massage function is also available for the sport seats and M sport seats. An optional massage function is available for the sport seats.

The surfaces of the rear seats have also been further developed to match those of the front seats. In the European car markets, ISOFIX child seat attachments are integrated into the outer seats. The rear seat backrest can be split and folded down 60:40 as standard, or 40:20:40 as an option, to adapt the luggage space to the customer's needs. As a result, the storage capacity under the high-swinging tailgate can be increased from 380 litres (BMW 120, BMW 120d: 300 litres) to up to 1,200 litres (BMW 120, BMW 120d: 1,135 litres). Acoustic comfort inside the vehicle is enhanced by a new closing mechanism.

Automatic tailgate operation is available as an option. In conjunction with the optional Comfort Access system, it also allows the luggage compartment to be opened and closed without touching it. A detachable trailer tow hitch is now also available for the M Performance BMW M135 xDrive model. Depending on the model, the maximum permitted towing capacity is up to 1,300 kilograms.

### **Completely leather-free interior and new steering wheels.**

The new BMW 1 Series features a fully leather-free interior as standard. This includes the surfaces of the seats, the dashboard and the door panels, as well as the steering wheel. The standard seats are upholstered in anthracite Arktur fabric, while the optional sport seats are upholstered in the new Econeer surface fabric in a blue-grey bicolour design with contrast stitches. The Veganza version features perforated seats with leather-like characteristics, contrasting stitching and decorative quilting in black, mocha and oyster, as well as red and black bicolour. The M Sport Package and the standard equipment of the BMW M135 xDrive include the Veganza/Alcantara upholstery in black with blue accents for the sport and M sport seats.

The latest version of the standard sport steering wheel features high quality pearlescent chrome trim, large thumb rests and illuminated multifunction buttons. The M Sport Package includes an M leather steering wheel with a distinctive three-spoke design and shift paddles. Steering wheel heating is available as optional equipment.

**Automatic air conditioning with digital control via BMW iDrive.**

The standard automatic air conditioning in the new BMW 1 Series is fully integrated into BMW iDrive. It is fully digitalised and controlled by touching the Control Display or using voice control. An icon at the bottom of the home screen provides direct access to the air conditioning menu. Here the desired temperature and air distribution can be set, as well as seat and steering wheel heating (optional). A 2-zone automatic air conditioning system with separate temperature and ventilation controls for the driver and front passenger, as well as a separate fresh air supply for the rear, is available as an option for the new BMW 1 Series.

The outer seam vents of the air conditioning system are integrated into a distinctive trim element that closes off the instrument panel on both sides. Ventilation is provided by discreetly integrated air vents in the centre of the cockpit. New control knobs allow the intensity and direction of airflow to be adjusted by turning and tilting.

The design of the instrument panel is characterised by generous surfaces, clear forward-leaning lines and a clearly defined design trim panel for the optional BMW Head-Up Display. Together with the door sills and the centre armrest, the instrument panel has a more refined surface structure than the previous model. In conjunction with the M Sport Package, the instrument panel next to the BMW Curved Display features diagonal stitching in the colours of BMW M GmbH.

In addition to the M leather steering wheel and sport seats in Veganza/Alcantara and the corresponding interior surfaces, the specific design features of the M Sport Package for the interior also include an anthracite roof liner, M specific displays on the information display, an M pedal set and interior trims in aluminium hexacube matt. The new BMW 1 Series comes with Aluminium Graphite interior trim as standard, with the Dark Silver variant also available as optional equipment.

**Extended standard equipment, wide range of customisation options.**

Just like the automatic air conditioning, Parking Assistant, alarm system and electrically folding exterior mirrors, heated seats and personal e-SIM, the BMW Live Cockpit Plus including the BMW Maps cloud-based navigation system is also standard equipment in the new BMW 1 Series. With the BMW Live Cockpit Professional, which is offered together with the BMW Head-Up Display and Parking Assistant Plus in the new Innovation Package, Augmented View is also available on the Control Display.

The optional panoramic glass roof is 83.5 centimetres long, 84.5 centimetres wide, offers a viewing area of around 0.5 square metres and is finished in the same colour as the roof liner. Its front section features an electrically operated opening and closing mechanism.

The standard interior lighting package for the new BMW 1 Series includes waterfall lighting for the centre console and indirect lighting in the door trim area. At the front, the intensity and colour of the footwell lighting can be individually adjusted. The lighting mood can also be varied in the instrument panel area.

The speakers of the optional Harman Kardon audio system are integrated behind stainless steel panels, depending on their position and feature an illuminated brand logo at the front. The Telephony with Wireless Charging option allows compatible smartphones to be charged wirelessly in a storage compartment in the front of the centre console, which is significantly larger and now also cooled compared to the predecessor model. Inductive charging is available as part of the Premium Package for the new BMW 1 Series, together with Comfort Access, logo projection from the exterior mirrors, frameless and automatically dimming interior mirrors and adaptive LED headlights.

## Drive.

# More efficiency and dynamic performance thanks to the latest generation of BMW TwinPower Turbo technology and consistent electrification.



A completely revised drive portfolio forms the basis for the increased dynamics and efficiency of the new generation of the BMW 1 Series. Once again, the entry-level model in the world of hallmark BMW driving pleasure is leading the way in its segment with innovative engine technology that reduces fuel consumption while at the same time optimising sporty power delivery. The highly efficient petrol and diesel engines available for the new BMW 1 Series are part of the latest generation of the Efficient Dynamics engine family. State-of-the-art 48-volt mild hybrid technology for spontaneous power delivery and added efficiency

The renewal of the drive portfolio is accompanied by changes to the model designations. When the new generation of the BMW 1 Series is launched, the petrol engine variants will be called BMW 120 and BMW M135 xDrive (see separate chapter). This means that the letter "i", which previously stood for petrol injection, has been removed from the model designation and will in future be reserved exclusively for all-electric BMW models. The new BMW 1 Series is the brand's first model series to implement the new model designation for petrol models.

In addition to the two petrol models, the new BMW 1 Series will also be available a diesel engine. Two further models with petrol engines will be added to the range in autumn 2024. All engines in the new BMW 1 Series are combined with the latest version of the 7-speed dual-clutch transmission Steptronic as standard. With the exception of the top-of-the-range all-wheel-drive model, they transmit their power to the road via the front wheels.

### **48-volt mild hybrid technology with powerful starter generator and adaptive recuperation.**

At the heart of the 48-volt mild hybrid technology in the BMW 120 and BMW 120d is an electric motor integrated into the new 7-speed Steptronic transmission. It acts as a starter generator and develops a rated output of 15 kW/20 hp and a rated torque of 55 Nm (41 lb/ft). Depending on the driving situation, the electric motor can either take the load off the combustion engine, thus increasing the efficiency of the drive system, or it can provide additional power, which is noticeable both when

setting off and when accelerating. The powerful starter generator also increases convenience when using the Auto Start Stop function and the coasting function.

A 48-volt battery located under the luggage compartment of the new BMW 1 Series supplies both the electric motor and the vehicle's 12-volt electrical system. The battery is charged by means of adaptive recuperation during acceleration and braking, with an output of up to 15 kW. A control system adapted to the driving situation ensures that braking energy is recovered as efficiently as possible. It uses data from the navigation system and driver assistance system sensors to adjust deceleration through recuperation as soon as the accelerator is released, for example when approaching a junction or a vehicle in front.

### **Three-cylinder petrol engine with the latest BMW TwinPower technology for the new BMW 120.**

In addition to the integrated mild hybrid system, the three-cylinder petrol engine in the new BMW 120 also features the latest version of BMW TwinPower Turbo technology, which is particularly beneficial in terms of efficiency and emissions. The special features of the 1.5-litre engine include the so-called Miller combustion process, which reduces the opening times of the intake valves, a redesign of the intake ports and combustion chambers, an ignition system with an active coil and integrated electronics, and dual fuel injection for optimum fuel/air mixture preparation.

As a result, the drive system of the new BMW 120 delivers a maximum output of 125 kW/170 hp (produced jointly by the combustion engine with up to 115 kW/156 hp at 4,700 – 6,500 rpm and the integrated electric motor with up to 15 kW/20 hp) and a maximum torque of 280 Nm (207 lb/ft) (produced jointly by the combustion engine with up to 240 Nm (177 lb/ft) at 1,500 – 4,400 rpm and the integrated electric motor with up to 55 Nm (41 lb/ft)). Acceleration from zero to 100 km/h (62 mph) takes 7.8 seconds. The combined fuel consumption and CO<sub>2</sub> emissions of the new BMW 120 in the WLTP test cycle are 6.0 to 5.3 litres per 100 kilometres (62 miles) and 135 to 121 grams per kilometre.

### **Enhanced four-cylinder diesel engine in the new BMW 120d.**

The four-cylinder diesel engine used in the new BMW 1 Series also achieves even greater efficiency and dynamics as well as improved acoustic comfort thanks to further developed BMW TwinPower Turbo technology. The basic engine benefits from friction-optimised pistons

made of hardened steel, a graphite coating for the piston skirts and an active oil separator with map-controlled electric drive. The efficiency of the two-stage turbocharging system has also been increased. Optimised common-rail injection and exhaust gas recirculation further reduce fuel consumption and emissions.

The new BMW 120d combines the latest generation of the 2.0-litre diesel engine with 48-volt mild hybrid technology. This results in a maximum power output of 120 kW/163 hp (generated jointly by the combustion engine with up to 110 kW/150 hp at 3,750 – 4,000 rpm and the integrated electric motor with up to 15 kW/20 hp) and a maximum torque of 400 Nm (295 lb/ft) (generated jointly by the combustion engine with up to 360 Nm (266 lb/ft) at 1,500 – 2,500 rpm and the integrated electric motor with up to 55 Nm (41 lb/ft). The new BMW 120d accelerates from 0 to 100 km/h in 7.9 seconds. Its optimised efficiency is reflected in combined fuel consumption and CO<sub>2</sub> values of 4.8 to 4.3 litres per 100 kilometres (62 miles) and 125 to 112 grams per kilometre according to WLTP.

**New 7-speed dual-clutch transmission Steptronic as standard, steering wheel-mounted shift paddles optional.**

The further developed 7-speed dual-clutch transmission Steptronic, which comes as standard in all model variants of the new BMW 1 Series, offers a high level of shifting comfort as well as harmonious and particularly fast gear changes. Fully electric actuation, a wider range of gears and greater internal efficiency are the main technological advances over the automated transmission of the previous generation of the compact model. The new design also allows downshifting to the same sub-transmission. When the engine is switched off, the transmission now automatically shifts to P.

The 7-speed dual-clutch Steptronic transmission is operated by a redesigned gear selector on the centre console. The M leather steering wheel, part of the M Sport Package for the new BMW 1 Series, also features shift paddles for spontaneous manual gear changes. The left-

hand paddle can also be used to activate the M Sport Boost function for particularly dynamic acceleration manoeuvres while driving. When this shift paddle is held down for at least one second, all drive and chassis systems are set to maximum sportiness.

# Chassis technology and driving experience.

## Consistently optimised agility and comfort.



Sporty driving characteristics are a central element of the character of the new BMW 1 Series. The chassis technology, which has undergone extensive development compared to the predecessor model, ensures the driving pleasure typical of the brand in the premium compact segment. The agility, steering precision and cornering dynamics of the new BMW 1 Series benefit from the increased rigidity of the body structure and the chassis connection. The front end also features a strut brace in the engine compartment (for the BMW 120 only in conjunction with the M Sport Package) and particularly solid axle mounts.

A large number of other innovations contribute to the consistent optimisation of ride comfort as well as sporty handling. These include the increased tyre diameter line, which also enhances the visual presence of the new BMW 1 Series. The caster of the front wheels has been increased by 20 per cent to ensure optimum steering feedback and particularly stable directional stability. New shock absorber technology enhances ride comfort by reducing body roll during dynamic cornering. In addition, a centrally positioned pendulum support for the engine mounts optimises acoustic comfort in the new BMW 1 Series.

The standard version of the new BMW 1 Series already offers balanced, precisely controllable and harmonious handling at all times. This is due in particular to the chassis components, which are individually tuned for each model variant, the appropriate use of all control systems and the latest generation of lateral dynamics management. With directly controlled wheel slip limitation and the integrated braking system, the new model generation features innovative systems that deliver a superior driving experience. The optional M Sport Package for the new BMW 1 Series includes the Adaptive M Chassis with lowered suspension and sport steering.

### **Front and rear axle feature newly developed components.**

A large number of new components have been developed for the single-link front suspension and the modular three-link rear suspension to optimise the rigidity and weight of the wheel suspension. Highly preloaded anti-roll bar mounts are used at both front and rear. They help to improve body support when cornering, while at the same time

improving ride comfort. They also increase steering precision. The front and rear axles feature heavy-duty wheel bearings with a weight and friction-optimised design to improve the car's efficiency.

Optimised front axle kinematics promote agile steering and a steering feel that is largely unaffected by driving forces. The supports for the hydro mounts, which are now made of aluminium, reduce the car's weight by around three kilograms. In addition to the hydro mount supports, the front axle support has also been redesigned to optimise impact energy absorption and occupant protection in the event of a collision.

The design principle of the rear axle makes a significant contribution to the increased driving dynamics potential of the new BMW 1 Series. Their model-specific design provides extra rigidity, combined with a rigidly connected rear axle support, to ensure precise wheel guidance with high lateral acceleration. In addition, the more compartmentalised arrangement of springs and dampers means less space is required. This has a positive effect on the amount of space available and the comfort of the passengers in the rear.

Ride comfort in the new BMW 1 Series is enhanced by a newly designed suspension and damping system. The central innovation is the stroke-dependent additional damping on the front axle. This is generated by means of an additional sleeve on the shock absorber and ensures that the body is stabilised when driving over small bumps and that the transition into bends is excellent. Both front and rear suspension is tuned to the weight of the respective model variant. The conventional suspension springs are supplemented by progressive springs. A three-way support bearing transfers the force of the main and auxiliary springs directly to the body. This decouples the shock absorbers, allowing their rubber mounts to be designed independently of the vehicle's load and preload, and optimising ride and acoustic comfort.

The new BMW 1 Series features electromechanical rack-and-pinion steering as standard. Its speed-dependent Servotronic steering assistance features two characteristic curves. They are part of the vehicle settings defined for the various My Modes. A model-specific application which optimises the centring of the steering and the increase in steering torque when changing direction supports the sporty driving experience in the new BMW 1 Series.

### **M Sport Package with adaptive M Chassis and sport steering.**

The typical BMW balance between sportiness and ride comfort is taken to an even higher level with the Adaptive M Chassis. It comes as standard in the new BMW M135 xDrive (see separate chapter) and is available as part of the optional M Sport Package for all other model variants. The Adaptive M Chassis uses variable, mechanically controlled, frequency-selective shock absorbers to enhance both agility and long-distance comfort. Pressure peaks within the shock absorbers are smoothed by additional valves acting on the traction side. The result is a combination of comfortable responses to minor road imperfections and sporty damping characteristics in dynamic driving situations.

In the new BMW 1 Series, the Adaptive M Chassis is combined with a lowering of the vehicle by up to 8 millimetres. It also includes sport steering with a more direct rack and pinion ratio for a particularly sporty steering feel.

### **Directly controlled wheel slip limitation and – new in the BMW 1 Series – integrated braking system.**

The new BMW 1 Series also features directly controlled wheel slip limitation to deliver maximum agility and control in demanding driving situations. With this system, which is unique among the competition, the traction control is integrated into the engine control unit. This eliminates the long signal paths to the control unit of the DSC (Dynamic Stability Control), so that the control interventions take place at up to 10 times the speed of conventional systems and in particularly precise fashion. As a result, the directly controlled wheel slip control ensures optimised traction, superior directional stability during dynamic acceleration manoeuvres and high cornering stability, even on slippery roads.

In addition, the new generation of the compact model now has an integrated braking system. It combines the brake actuation and brake booster functions as well as the brake control of the DSC driving stability control system in one compact module. An electric actuator releases the required brake pressure faster and more precisely than before. The integrated braking system also provides feedback via the brake pedal, adapting deceleration to the driver's wishes.

The braking system of the new BMW 1 Series offers additional functions as standard to increase efficiency and comfort. These include mechanical brake pad resetting to reduce braking resistance and an electric parking brake integrated into the rear brake callipers. The optional M sport brake system features larger brake discs and four-

piston fixed callipers at the front and single-piston floating callipers at the rear. The brake callipers are finished in either blue or red.

The new BMW 1 Series comes with 17-inch light alloy wheels as standard. The M Sport Package includes 18-inch M light alloy wheels in a Y-spoke design. Further 18 and 19-inch light alloy wheels, including weight-optimised forged aluminium wheels, are available as ex works options and from the original BMW accessories range.

# The new BMW M135 xDrive. Top athlete with hallmark M appeal.



The starting grid of the new BMW 1 Series includes an M Performance model which makes it clear at first glance that it intends to take pole position. The new BMW M135 xDrive is available immediately to coincide with the market launch of the fourth generation of the premium compact model and stands out more clearly than ever from the other variants in the series. The special status of the new BMW M135 xDrive is signalled above all by the M radiator grille with horizontal bars, the black M exterior mirror caps and the two pairs of exhaust tailpipes. These M specific design features are a clear indication of the vehicle's membership of the BMW M family and of its thrilling performance. This is made possible by the most powerful version of the new four-cylinder petrol engine, independently tuned suspension technology and the intelligent BMW xDrive all-wheel drive system.

Thanks to M TwinPower Turbo technology, the engine in the new BMW M135 xDrive generates a maximum output of 221 kW/300 hp and up to 233 kW/317 hp in selected markets. This enables the compact top athlete to accelerate from a standstill to 100 km/h (62 mph) in 4.9 seconds. The impressive acceleration is complemented by M typical cornering dynamics, agility and precision. This model-specific performance experience includes suspension components with optimised rigidity, a mechanical differential lock on the front axle integrated into the 7-speed Steptronic transmission, Adaptive M Chassis including sport steering, 18-inch M light alloy wheels and an optional M compound brake system.

## **Four-cylinder petrol engine with outstanding torque.**

Spontaneous response to every movement of the accelerator, continuous power delivery and outstanding revving power are the hallmarks of the most powerful version of the latest modular four-cylinder petrol engine. The engine in the new BMW M135 xDrive features a number of innovations compared to its predecessor, including the combustion process, the design of the intake ports and combustion chambers, camshaft control, fuel injection, ignition and exhaust system.

M specific features include a particularly robust crankshaft drive, optimised oil supply to the cooling duct pistons and new main bearing

shells and covers. The latest M TwinPower Turbo technology includes increased turbocharging and intercooling as well as dual fuel injection. The 2.0-litre engine develops its maximum power between 5,750 and 6,500 rpm. The maximum torque of 400 Nm (295 lb/ft) is on stream between 2,000 and 4,500 rpm.

The spirited power delivery is accompanied by the emotive sound of the M-specific exhaust system. Its unmistakable sound is transmitted into the interior and amplified by the loudspeakers of the audio system. The exhaust system of the new BMW M135 xDrive is also visually striking with its twin tailpipes integrated into the rear apron on the left and right. The four tailpipes unmistakably identify the new BMW M135 xDrive as a BMW M model. It is also the only model in the series with visible exhaust outlets at the rear.

**7-speed Steptronic transmission with dual clutch, M Sport Boost and differential lock, optimised BMW xDrive system.**

In the new BMW M135 xDrive, a 7-speed Steptronic transmission with dual clutch, model-specific shift paddles on the steering wheel and particularly high shift dynamics as well as the intelligent BMW xDrive all-wheel drive system ensure that power of the engine is transferred to the road with ease. Pulling the left-hand shift paddle for at least one second activates M Sport Boost, which sets all drive and suspension systems to maximum sportiness. M Launch Control is also available for traction-optimised acceleration manoeuvres with maximum dynamics from a standing start.

The 7-speed Steptronic transmission of the new BMW M135 xDrive also features an integrated mechanical differential lock. This acts as a transverse lock to reduce the speed differential between the front wheels. Combined with the BMW xDrive all-wheel drive system, which distributes torque variably between the front and rear wheels, this ensures maximum traction, driving stability and cornering dynamics. The all-wheel drive system consists of an angular gearbox known as a power take-off, which diverts the engine power from the front axle drive, and a hang-on clutch, which receives this torque via a drive shaft and transfers it to the rear wheels as required. The latest version of BMW xDrive is characterised by optimised efficiency and reduced weight. The networking of all drive systems with the Dynamic Stability Control (DSC) and the directly controlled wheel slip limitation integrated into the engine management system, which also takes over traction control for the rear wheels in the new BMW M135 xDrive, delivers a harmonious and brand-

typical performance experience in every situation and even during highly dynamic driving.

**Standard equipment with Adaptive M Chassis, M sport brake system and 18-inch M light alloy wheels.**

Like the power transmission, the model-specific chassis technology of the new BMW M135 xDrive promotes the typical M combination of dynamics, agility and precision. The standard Adaptive M Chassis features variable, mechanically controlled, frequency-selective shock absorbers that enhance both agility and long-distance comfort. The Adaptive M Chassis lowers the car by up to 8 millimetres and is combined with sport steering. In addition to speed-dependent Servotronic power steering, it also features a particularly direct rack-and-pinion transmission.

Model-specific struts at the front and rear, as well as extra-rigid anti-roll bar mounts, optimise response and precision during steering manoeuvres. Powerful deceleration is guaranteed by the M sport brake system. The new BMW M135 xDrive also comes with 18-inch M light alloy wheels in Y-spoke design as standard. The M Sport Package Pro is also available as an option for the compact top athlete, featuring red brake callipers for the M sports brake system and – exclusively for the BMW M135 xDrive – M Sport Seats.

**Exclusive M Technology Package including M Compound brake system.**

The contents of the M Technology Package, which will be available exclusively for the new BMW M135 xDrive from autumn 2024, provide additional precision and precisely controllable handling even in highly dynamic situations. Front shock absorbers with extra-strong piston rods, weight-optimised aluminium anti-roll bars with increased rigidity, additional longitudinal underfloor struts, additional lightweight measures and independent wheel suspension create the ideal conditions for an intense performance experience on the racetrack.

The M Compound brake system, originally developed for BMW M GmbH's high-performance models, also contributes to this. It offers exceptional braking comfort, precise modulation and stable stopping power even under heavy loads. It also features optimised weight and significantly reduced unsprung masses compared to conventional braking systems. The M Compound brake system brakes the forward thrust of the new BMW M135 xDrive with four-piston fixed calipers and 385 millimetre discs at the front and single-piston floating calipers with

parking brake and 330 millimetre discs at the rear. The brake calipers are painted grey and feature the M logo.

The 19-inch M light alloy forged wheels, which are also part of the M Technology Package, are fitted with sport tyres. The M Technology Package for the new BMW M135 xDrive also includes a high-gloss M Shadow Line with enhanced features and M sport seats with integrated headrests and an illuminated M logo in the upper part of the backrest.

**Individual appearance with typical M design features.**

The most powerful version of the compact five door also emphasises its outstanding performance characteristics more than ever before. The M specific design features, which are based on the technical requirements in terms of cooling air demand and aerodynamic balance, include a front apron with large air intakes, specific side skirts, black M door mirror caps, a model-specific M rear spoiler with central air intake and a rear apron with a particularly striking diffuser insert.

Horizontally arranged double bars and an M logo on the BMW radiator grille complete the characteristic front view of the compact top athlete. At the rear, the 90 millimetre tailpipes of the exhaust system, integrated in pairs into the rear apron on the left and right, are the unmistakable hallmark of a BMW M vehicle.

**Sport seats, M leather steering wheel and specific displays for an intense performance experience.**

Sport seats in Veganza/Alcantara in anthracite with blue contrast stitching and an M leather steering wheel with shift paddles and red centre highlights are the exclusive interior features of the new BMW M135 xDrive. The model-specific cockpit design also includes backlit interior trim strips with M-specific lighting in matt aluminium Hexacube finish, an anthracite roof lining, M door sill trims and M pedals. Model-specific graphics displayed on the BMW Curved Display and optionally on the BMW Head-Up Display further enhance the driving experience.

# Driver assistance systems.

## Significant progress on the road to automated driving and parking.



With innovative technology in the areas of control software, cameras, ultrasonic and radar sensors, the new BMW 1 Series takes a significant step towards automated driving and parking. The standard and optional assistance systems support and relieve the driver in a wide range of driving situations in order to optimise comfort and safety. Compared to the previous model, they offer a significantly extended range of functions. The systems used in the new BMW 1 Series are also among the best on the market in terms of availability and reliability. The intelligent networking of the assistance systems with the drive, brake and steering actuators in the Central Vehicle Management ensures harmonious interaction between driver and vehicle.

Highlights in the field of Level 2 automated driving, in accordance with the SAE International Standard (SAE J3016), include the automatic Speed Limit Assist and route guidance when using Active Cruise Control with Stop & Go function, as well as Parking Assistant Professional, available for the new BMW 120 and the new BMW 120d, which allows parking and manoeuvring to be controlled via a smartphone.

### **Extensively extended standard equipment: Driving Assistant including front collision warning with extensive additional functions.**

Depending on the market, the new BMW 1 Series already offers a comprehensive package for optimised safety as standard with the Driving Assistant. This is ensured in particular by the advanced front collision warning system. It includes Collision Warning, pedestrian and cyclist warning with braking function and Crossroads Warning. When turning right, the system can warn of pedestrians and cyclists approaching parallel to the road from behind or in front. When turning left, the system can warn of vehicles approaching in the opposite lane and prevent the vehicle from turning by applying the brakes. Other standard comfort and safety features include Cruise Control with brake function, Speed Limit Info, Traffic Sign Recognition with No Overtaking Display and Route-ahead Assistant, Manual Speed Limit Assist, emergency steering intervention, Lane Departure Warning with lane return, Rear Collision Warning and Exit Warning.

### **Driving Assistant Plus: More comfort and safety on the road.**

Driving Assistant Plus is available as an option for relaxed driving on long journeys. The camera and radar-based system includes Steering and Lane Control Assist, as well as Active Cruise Control with Stop & Go function, which can be used at speeds of up to 180 km/h. Corrective steering interventions assist the driver in following the lane detected by the system. In addition to the preferred speed, Active Cruise Control automatically maintains a safe distance from vehicles ahead and brakes the new BMW 1 Series to a standstill if necessary.

The automatic Speed Limit Assist takes into account speed limits along the route, detected by traffic sign recognition or based on navigation data. When approaching a bend, roundabout, junction or exit, the cruise control system anticipates the situation and reduces speed accordingly. The system also adjusts the speed in good time before entering a built-up area.

### **Driving Assistant Professional: Complete package for automated driving.**

With the Driving Assistant Professional option, both the Steering and Lane Control Assist systems and Active Cruise Control can be used up to a speed of 210 km/h (130 mph). On highways, Steering and Lane Control Assist also helps the driver to stay on course in tight spaces. The driver can also use the Active Lane Change Assistant. Active navigation guidance detects and prepares for a lane change in the direction of a highway exit, which is necessary to maintain the calculated route.

Driving Assistant Professional also includes Lane Departure Warning with Active Side Collision Protection, Road Priority and Wrong-way Warning, Cross Traffic Warning, Emergency Stop Assistant and Emergency Lane Assistant, which can be used in selected European countries. Traffic light warning is also available in Germany with Active Cruise Control. An Assisted View display on the Information Display provides an overview of the assistance systems activated and their functionality.

### **Parking Assistant as standard, optional control of manoeuvres via smartphone.**

The standard Parking Assistant enables automatic parking and reversing in both on and off-street parking spaces. It also includes Active Park Distance Control with front and rear sensors, a rear view camera, Reversing Assistant and trailer assistant.

The optional Parking Assistant Plus extends the range of functions to include the BMW Drive Recorder, which uses the cameras of the driver assistance systems to record video images of the area around the vehicle. The recordings of up to 60 seconds can be stored and played back on the Control Display when the vehicle is stationary or exported via the USB interface. Surround View with Top View, Panorama View and 3D View provide a 360-degree view of the vehicle and its surroundings from different perspectives on the Control Display. In addition, the driver can have a three-dimensional live image of their vehicle and its surroundings transmitted to their smartphone by means of Remote 3D View.

Parking Assistant Professional is also available for the new BMW 1 Series. With this option, drivers of the new BMW 120 and the new BMW 120d can use the My BMW App on their smartphone to manoeuvre into particularly tight parking spaces. The BMW Manoeuvring Assistant, which is also included in Parking Assistant Professional, can also store complex parking and manoeuvring manoeuvres up to 200 metres away and then automatically perform the necessary acceleration, braking, steering and gear changes. The driver can control the process either in the car or from outside via a smartphone, allowing him to concentrate on monitoring their surroundings.

# Display and control system, connectivity. Innovative user experience with the BMW Operating System 9 and BMW Digital Premium.



The technological progress associated with the generation change in the premium compact segment is also reflected in an innovative user experience. The latest version of the BMW iDrive display and operating system with QuickSelect is now available in the new BMW 1 Series. Based on the BMW Operating System 9, it offers optimised options for intuitive and convenient control of numerous functions and for the use of innovative digital services. With the BMW Curved Display and the BMW Intelligent Personal Assistant, the new BMW iDrive is consistently geared towards operation via touch functions and natural speech. The operating system also includes multifunction buttons on the steering wheel and the optional BMW Head-Up Display.

The BMW Operating System 9 was developed in-house by the BMW Group and is based on an Android Open Source Project (AOSP) software stack. It enables a wider range of digital content for information and entertainment, faster update cycles for functions and optimised access to many specific online services. BMW Operating System 9 also provides the basis for a highly individual selection of additional digital services, which are available to customers with the BMW ConnectedDrive upgrades and the new BMW Digital Premium offer.

## **BMW iDrive with QuickSelect. Fast and direct access to the functions you want.**

The standard BMW Curved Display in the new BMW 1 Series also offers a modern interpretation of the cockpit design with the typical BMW driver focus. It consists of a 10.25-inch Information Display and a 10.7-inch Control Display. The Control Display's new home screen permanently displays the navigation system's map view or other individually configurable displays. On the same level, the driver's side of the screen features vertical widgets that can be swiped through. QuickSelect enables functions to be accessed directly without having to switch to a submenu. Additional information and settings can be accessed by swiping horizontally across the widget.

The flat menu structure, inspired by consumer electronics devices, makes touch operation in the new BMW 1 Series particularly convenient and intuitive. You can return to the home screen at any time by tapping

the home icon at the bottom of the Control Display. In addition to the Home symbol, there are now icons for direct access to the air conditioning menu, the All Apps menu as well as Apple CarPlay® and Android Auto™, if activated.

### **"Over-the-air" updates: Remote Software Upgrades and BMW Digital Premium from the BMW ConnectedDrive Store.**

To ensure that the new BMW 1 Series always has the latest software, updates can be installed "over the air". The remote service upgrades may include free quality improvements or even additional features or functional improvements (availability depends on country, vehicle model, equipment and vehicle condition).

With BMW ConnectedDrive Upgrades, customers can also test selected functions free of charge for a period of one month and then book them for a specific term. The highlight of the programme in the BMW ConnectedDrive Store is the BMW Digital Premium offer. As part of a subscription, customers can use all the apps available in their country, for example from the areas of music streaming, video streaming, news or games in the vehicle. BMW Digital Premium also includes data usage for all digital services and apps from the BMW ConnectedDrive Store, including music and video streaming.

The range of third-party apps and their content available within BMW Digital Premium is constantly being expanded. In the area of in-car gaming with the AirConsole\* platform, for example, there is an ever-growing selection of casual games such as "Who Wants to be a Millionaire?" or "Starlit Kart". These allow drivers and passengers to spend time in a stationary vehicle, either alone or in multiplayer mode. Players only need their smartphone, which acts as a controller, and the BMW Curved Display.

The ever-expanding video streaming portfolio offers another way to make the most of time spent in a stationary vehicle, for example in a traffic jam, waiting outside the school or kindergarten, or arriving early for an appointment. A video app (powered by Xperi TiVo) is available for this purpose. The entertainment offering includes both live channels and on-demand media libraries in the categories of news, sport, children's entertainment, movies and series. The video app with country-specific

\*Country availability of the AirConsole for the BMW 1 Series:  
Austria, Belgium, Bulgaria, Canada, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Great Britain, Greece, Hungary, Ireland, Italy, South Korea, Malta, Netherlands, Norway, Latvia, Lithuania, Luxembourg, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, USA

and cross-country offers is currently available in the US, the UK, South Korea, France, Italy, Germany, Spain and soon in other countries too.

**Personalised music enjoyment with high-quality audio systems and streaming services from BMW Digital Premium.**

BMW Digital Premium in the new BMW 1 Series also enables the use of a wide range of audio streaming services. Listening to music while driving becomes a highly individual entertainment experience, supported by high-quality audio systems. The standard audio system in the new BMW 1 Series features six loudspeakers and a 100 watt amplifier. DAB (Digital Audio Broadcasting) reception is also available. The Harman Kardon hi-fi system with twelve loudspeakers and an amplifier output of 205 watts is available as an option.

The standard smartphone integration via Bluetooth enables streaming via the customer's mobile phone. With BMW Digital Premium, customers can use the individual account of their favourite streaming provider directly in the vehicle. Data usage for the digital service is included when the service is booked in the BMW ConnectedDrive Store.

**BMW Maps navigation system as standard, extended functions with BMW Digital Premium.**

The cloud-based BMW Maps navigation system is also part of the BMW Live Cockpit Plus, which comes as standard in the new BMW 1 Series. It is easy to use and provides fast, dynamic route planning. In conjunction with the optional BMW Live Cockpit Professional, the BMW Head-Up Display is supplemented by the Augmented View function. When the route guidance system is activated, Augmented View supplements the navigation map with a live video stream from the driver's perspective, which is shown on the Control Display and enhanced with additional contextual information. In confusing traffic situations, for example, the Augmented View makes it easier to find your way around with animated directional arrows.

BMW Digital Premium offers customers additional functions for the navigation system. These include the option of using real-time traffic information from the Real Time Traffic Information (RTTI) service even when route guidance is not activated, information on the traffic situation on secondary roads, a 3D display of buildings and surrounding elements in the map view and extended information on parking facilities. Turning instructions and lane recommendations are shown realistically on the Information Display and in the optional BMW Head-Up Display.

### **Additional My Modes and lighting effects, optimised dialogue with the BMW Intelligent Personal Assistant.**

Depending on the My Mode selected, the vehicle functions, the displays on the BMW Curved Display and the interior lighting are coordinated with one another. By voice command or at the touch of a button, the driver can adjust the overall vehicle settings to suit the current driving situation or his personal preferences. Personal Mode, Sport Mode and Efficient Mode are available as standard in the new BMW 1 Series. BMW Digital Premium extends the range to include Expressive Mode, Relax Mode and Digital Art Mode.

When approaching the vehicle, BMW Digital Premium also offers an attractive enhancement to the user experience. The welcome scenario consists of an orchestrated activation of the exterior and interior lighting, including projections from the exterior mirrors. In addition to the standard choreography, BMW Digital Premium offers three additional lighting effects: Adagio, Vivace and Allegro.

In conjunction with BMW Digital Premium, the new BMW 1 Series is also able to increase comfort in regularly recurring situations through automation. For example, the side windows at the entrance to an underground car park can be automatically opened for convenient use of an access card.

The latest version of the BMW Intelligent Personal Assistant responds to naturally spoken instructions and has continuously expanded its capabilities. In order to optimise the dialogue between the driver and the vehicle, interactive graphics are shown on the Control Display which, for example, signal the attention of the digital companion and display appropriate symbols in response to selected voice commands. For example, the BMW Intelligent Personal Assistant responds to the request to find the nearest petrol station with an image of a petrol pump. In conjunction with BMW Digital Premium, two versions of this visualisation are available. In addition a direct text overlay also shows the customer which command the voice assistant has just understood and processed.

### **Optimum networking: Smartphone integration, 5G mobile phone antennas, BMW ID and My BMW App.**

The standard equipment of the new BMW 1 Series includes optimised smartphone integration via Apple CarPlay® and Android Auto™. The services are integrated directly in the display and operating system via a Wi-Fi connection between the respective smartphone and the vehicle.

In France, the new BMW 1 Series already comes with 5G mobile reception as standard. This provides the ideal conditions for in-car gaming, video streaming and the use of other online-based services.

To personalise the user experience with BMW ID, simply log in to the vehicle for the first time using a smartphone and scan the QR code. The personal profile is then added and synchronisable settings are loaded. This means that the customer is greeted on the vehicle display by name and, if desired, with a personal profile picture, and their individual vehicle settings are automatically loaded. In addition, the vehicle is added to the My BMW App without the customer having to do anything.

Functioning as a universal digital interface, the My BMW App provides information on the vehicle's status, the vehicle charge and available range at all times. It also provides remote access to functions such as locating the vehicle and locking and unlocking the doors.

Together with the optional convenience access, the BMW Digital Key Plus can be set up on the smartphone via the My BMW App. It is available for Apple iPhone and Apple Watch as well as suitable smartphones with Android operating systems. With BMW Digital Key Plus, the new BMW 1 Series can be locked and unlocked using a smartphone or smartwatch, thanks to security-optimised ultra-wideband (UWB) radio technology. The conventional car key thus becomes superfluous. There is no need to take your smartphone out of your pocket, as the car unlocks as soon as you approach it.

Digitalisation, artificial intelligence and innovative technologies also form the basis of Proactive Care. The focus is on optimising the service experience and BMW performance, for example by identifying service and technical vehicle requirements at an early stage and proactively offering the customer solutions via the appropriate channel, depending on the urgency. Proactive Care enhances the customer experience with the accompanying service promise "RELAX. WE CARE." in the long term.



# Product and manufacturing sustainability

## Holistic concept for using resources sustainably

Sustainable development is an integral part of the BMW Group's corporate strategy. The Group is not only systematically driving forward the electrification of all drive systems, but is also constantly working to increase the efficiency of its entire product portfolio. In this way, the fuel consumption and emission values of models with combustion engines are continuously reduced and the energy efficiency and range of fully electric vehicles are increased, without compromising the driving pleasure typical of the brand.

The new BMW 1 Series also contributes to the BMW Group's ambitious CO<sub>2</sub> targets through innovations and the consistent optimisation of vehicle efficiency. The BMW Group has set itself the goal of reducing the CO<sub>2</sub> emissions per vehicle over the entire lifecycle by at least 40 per cent by 2030 compared to 2019. The company aims to achieve "net zero" CO<sub>2</sub>e emissions across the entire value chain by 2050 at the latest.

### **Innovation: Maritime plastic now also for foamed components.**

In the new BMW 1 Series, marine plastic made from discarded fishing nets is used for the first time not only in textile surfaces, but also in foamed components such as the inserts for the trailer coupling or the luggage compartment lining. The emergence of a market for old fishing nets provides an attractive alternative to dumping them at sea and makes a valuable contribution to reducing the environmental impact of human activity.

The new BMW 1 Series also has floor mats made of PET mono-material. Here, too, the increased use of mono-materials in recycling and reutilisation in the sense of a closed-loop economy plays an important role.

### **Innovation: Econeer seat cover - textile composite made from recycled mono-material.**

The new Econeer seat covers, which are being used for the first time on the sports seats of the new BMW 1 Series, are made from over 93 per cent recycled polyester yarn. Compared to using virgin yarn, this reduces CO<sub>2</sub>e emissions from raw materials and production by up to 70 percent.

Thanks to the easy dismantling of the mono-material composite for the cover and upholstery, the new seat is also ideal for use in a circular economy. The seat cover can be made into a seat cover again. This means that there is no downcycling, but that new products are created with the same level of quality as the product before it was recycled.

The interior of the new BMW 1 Series is also completely leather-free. The use of Vegganz as a surface material reduces CO<sub>2</sub> equivalent emissions by up to 85 percent compared to the use of leather. The steering wheel in the basic version is also leather-free.

**Innovation: Light alloy wheels made from 70 percent secondary aluminium.**

The light alloy wheels on all variants of the new BMW 1 Series consist of 70 per cent secondary aluminium. The electricity used for their production comes 100 per cent from renewable sources. In addition to the wheels, components such as the wheel, cross and side members and the crankcase are also made from recycled light metal. These highly stressed components contain up to 50 percent secondary aluminium.

**CO<sub>2</sub>-optimised production and optional use of hydrogen instead of gas in the BMW Group Leipzig plant.**

Since 2020, the BMW Group has been purchasing electricity exclusively from renewable energy sources at all locations in its global production network. The supply of electricity from renewable sources is partly based on direct contracts with regional suppliers. In addition, the BMW Group Plant Leipzig, where the new BMW 1 Series is produced, is the first car plant in Germany to generate part of its electricity requirements with four wind turbines on the plant site. The four turbines supply a total of around 27 GWh per year, equivalent to around 15 percent of the plant's total electricity consumption.

Additional electricity is generated by burning natural gas in the energy centre's combined heat and power plant. Two systems are installed, each with a thermal firing capacity of 7 MW. Based on the principle of combined heat and power generation, the resulting engine and exhaust heat is utilised and fed into the plant's own heating network. The simultaneous use of electricity and heat makes it possible to achieve a production efficiency of more than 80 per cent – much higher than with a conventional power plant.

The "2nd Life Battery Farm" at BMW Group Plant Leipzig is helping to stabilise the local power grid by combining 700 decommissioned high-

voltage batteries from BMW i3 vehicles into a powerful 15 MWh electricity storage system.

As part of a pilot project, the plant's paint shop, by far the largest energy consumer in the plant, is being equipped with fuel-flexible methane-hydrogen burners to provide an alternative source of energy for the drying and curing process. Other burners in the paintshop are gradually being converted to bivalent operation. The next six hydrogen burners have now been installed. This makes the Leipzig plant a pioneer in the automotive industry. "Our vision in Leipzig is the comprehensive decarbonisation of production, i.e. the replacement of fossil fuels with green hydrogen," says Plant Manager Petra Peterhänsel, describing the long-term direction of the plant. The prerequisite for this is sufficient availability of green hydrogen from the grid. The Leipzig plant has the opportunity to use a hydrogen network that is currently being developed in the region.

Other measures to conserve resources include consistent waste management with a focus on recycling, resource-saving painting processes and the promotion of biodiversity on the plant site. With more than 130 industrial trucks and five hydrogen refuelling stations on the site, the Leipzig plant has the largest fuel-cell-powered intralogistics fleet in Germany.

To avoid waste, the BMW Group uses coordinated recycling and processing concepts that are adapted to the waste streams of the individual plants, regional legal requirements and local waste disposal structures. In 2023, a total of 99.4 percent of the waste generated worldwide in production was recycled or reused. The amount of waste to be disposed of per car produced fell significantly by 22.6 percent to 2.12 kilograms compared to the previous year.

### **Sustainably produced frozen coatings based on biomass.**

The BMW Group is also the first car manufacturer in the world to use matt paints produced from biomass instead of crude oil in its European plants. The Frozen paint finishes available for the new BMW 1 Series are also produced using this innovative process. Renewable raw materials such as biowaste or waste from sewage treatment plants serve as the raw material for these so-called biomass balance paints. They can replace the organic components in paints.

The sustainable paints are chemically identical to their counterparts made from fossil raw materials and meet the same high-quality

requirements that the BMW Group places on all materials used. Using sustainable paints made from biowaste not only reduces the consumption of fossil raw materials, but also avoids the CO<sub>2</sub> emissions associated with extracting, transporting and processing crude oil.

**The Secondary First approach: Step by step to a circular economy.**

One of the BMW Group's ambitious sustainability goals is to increase the use of secondary raw materials in vehicle production. The company is pursuing the vision of the circular economy, in which raw materials are kept in circulation for as long as possible in order to reduce the use of primary materials and the associated mining of new raw materials and their energy and CO<sub>2</sub> intensive processing.

**Commitment to social and environmental integrity in the supply chain.**

For the BMW Group, social and environmental standards in the supply chain are just as important as within the company itself. To ensure compliance along its global supply chains, the company has initiated a comprehensive package of measures that combines various strategies consisting of training, contractual agreements, certifications and inspections in the form of surveys or audits. In addition, the BMW Group is committed to the reduction and elimination of critical raw materials and focuses on the certification of sustainable extraction and processing methods as well as the recycling of corresponding materials.

For example, the BMW Group reduces its demand for the primary raw material tungsten by several tonnes per year by establishing a closed cycle for tools containing tungsten. Used drilling and milling inserts are recycled and made into new tools. The company is also actively involved in the development and implementation of environmental and social standards in the supply chain through its membership of initiatives such as the Aluminium Stewardship Initiative (ASI) and the Initiative for Responsible Mining Assurance (IRMA). By participating in working groups such as the Leather Working Group (LWG) and the Global Platform for Sustainable Natural Rubber (GPSNR), the BMW Group is making a significant contribution to the development of robust, cross-industry sustainability standards for leather and natural rubber.

**BMW Innovation: Extended Life Cycle Assessment with the Vehicle Footprint.**

A TÜV-certified Life Cycle Assessment will be available when production of the new BMW 1 Series starts in July 2024. As with the new BMW 5 Series, for which the extended methodology was first introduced under the name Vehicle Footprint, it will then be available here. The

Vehicle Footprint is accessible to everyone and increases transparency regarding the raw materials used and CO<sub>2</sub> emissions during the production and use of the vehicle, extended to include social aspects in the supply chain.

**BMW EfficientDynamics: Effective package of measures and technologies since 2007.**

In 2007, the manufacturer launched BMW EfficientDynamics, a package of measures and technologies designed to optimise vehicle development in order to achieve maximum performance with minimum energy consumption. In addition to the further development of all drive systems, the comprehensive approach also includes improved energy and heat management, optimisation of aerodynamic properties, weight reduction through intelligent lightweight construction and the integration of digital efficiency functions. The holistic approach to reducing the ecological footprint takes into account the entire life cycle of a vehicle – from development and procuring raw materials as well as using secondary materials, through production to the use of the vehicle and how it is subsequently recycled with the circular economy in mind. Sustainability and premium standards are not a contradiction for the brand, but are inextricably linked.

In the European automobile markets, the BMW Group was able to continue the reduction of the CO<sub>2</sub> emissions of its fleet in 2023. With a provisional value of 102.1 grams per kilometre according to WLTP, the company was able to undercut the European Union's target of 128.5 grams per kilometre by around 20 percent.

**More efficient driving with the efficiency trainer.**

In addition to BMW EfficientDynamics technology, an efficient driving style is a key factor in reducing fuel consumption and CO<sub>2</sub> emissions during the vehicle's service life. The efficiency trainer in the My BMW App provides drivers with tips on how to optimise their driving style in terms of sustainability. The digital assistant analyses previous journeys and provides tips for improvement as well as incentives by comparing fuel consumption with corresponding values from the BMW Community.

# BMW M Performance Parts for the new BMW 1 Series.

## Racing flair with individual style.



With its exterior design, its modern interpretation of the driver-oriented cockpit design and its drive and chassis technology, the new BMW 1 Series further extends its leading position in the field of sporty driving pleasure in the premium compact segment. The M Sport Package and the M Sport Package Pro are available for specific models. The new top athlete BMW M135 xDrive is the ultimate expression of driving dynamics. In addition to the standard equipment and options of the new BMW 1 Series, a wide range of BMW M Performance Parts will be available from the time of market launch, allowing you to set your own individual accents for uncompromising sportiness.

The retrofit products from the original BMW accessories programme, developed with the motorsport expertise of BMW M GmbH over the past 50 years, pave the way for particularly intense driving pleasure and an unmistakable appearance. Exclusive design, first-class materials and uncompromising quality are the key to success with BMW M Performance Parts, just as they are on the race track.

### **BMW M Performance Parts for the new BMW 1 Series:**

- 19" M Performance light alloy wheel Y-spoke 979 M bicolour (Jet Black matt, diamond-polished), summer wheel with tyre set
- M Performance Flicks high-gloss black
- M Performance front splitter high-gloss black left/centre/right
- M Performance rear diffuser Aramid
- M Performance roof edge spoiler, high-gloss black
- M Performance aerial cover Aramid
- M Performance exterior mirror caps Carbon left/right
- M Performance tailpipe trim Carbon left/right
- M Performance petrol cap Carbon
- M Performance side sill insert high-gloss black left/right
- M Performance decals front and side
- M Performance designation sticker
- M Performance towing strap
- M Performance sport brake pads
- M Performance centre armrest Alcantara
- M Performance floor mats