

The new BMW 1 Series. Contents.



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1. Unique driving pleasure in a premium compact car. The new BMW 1 Series. (Short version)

The premium compact BMW 1 Series is already synonymous with driving pleasure. Now, the second generation model offers state-of-the-art engine and suspension technology, further improvements in fuel efficiency, significantly more space and an innovative range of features and equipment. Still the only rear-wheel-driven car in its class, it builds on the strengths of its predecessor, which has already sold more than one million units worldwide. With its handling and design, innovative technology and premium image, the new BMW 1 Series has consolidated its strong position in the competitive five-door segment.

BMW's entry-level model has achieved maturity, offering an even better balance between sportiness and driving comfort, improved functionality, and numerous driver assistance systems previously available only in higher segments. This is also apparent in its size. The body of the new BMW 1 Series is 85 millimetres longer than its predecessor, at 4,324 millimetres, while the wheelbase has widened by 30 millimetres to 2,690 millimetres. The car also looks more powerful because its overall width has increased by 17 millimetres to 1,765 millimetres, while its height remains unchanged at 1,421 millimetres. The rear seats have 21 millimetres more legroom, and the luggage compartment has expanded by 30 litres to 360 litres.

The design of the new generation is a powerful expression of the latest technological advances. The model's fresh, youthful image has been stylishly updated, using the latest BMW design language. The BMW 1 Series is also the first model to be offered with the BMW Sport Line and BMW Urban Line, providing exclusive opportunities for personalization.

All engines in the new BMW 1 Series are four-cylinder models using BMW TwinPower Turbo technology. The petrol engines are part of a new generation, combining a sporty feel with exceptionally low fuel consumption and emissions. Output is 10 kW or 20 kW higher than with the predecessor models, yet fuel consumption has been reduced by up to 10 per cent.

The diesel models too further extend the advantage that the BMW 1 Series enjoys over its competitors in the compact segment.

Like its predecessor, the new BMW 1 Series also incorporates the extremely wide-ranging BMW EfficientDynamics technology package as standard. This includes the Automatic Start/Stop function, available with both the manual and automatic transmissions (including the optional eight-speed automatic), and ECO PRO mode, activated using the driving experience switch, which is fitted as standard. There are also plans to expand the range with the BMW 116d EfficientDynamics Edition, which will achieve fuel consumption of 3.8 litres per 100 kilometres and emit just 99 grams of CO₂ per kilometre over the EU combined cycle (provisional figures).

Exciting, elegant, innovative design.

This innovativeness, elegance and responsiveness of the new BMW 1 Series are all reflected in its compact bodywork. Its overall proportions follow an instantly recognizable BMW template, with an elongated bonnet, long wheelbase and set-back passenger cell. The front of the car is dominated by the large BMW kidney-shaped radiator grille, boldly shaped headlight units and three-section air intake. The double-round headlights have an accent trim across their tops, while for the first time on a BMW model, the side indicator lights are built into the exterior mirrors.

The slightly sloping roof line, sporty, angled rear windscreen and flat side windows give the car a coupé-like feel when seen from the side, while the Hofmeister kink – the low forward bend at the back end of the side windows – extends well into the C-pillar, making the door aperture wider and facilitating entry to and exit from the rear seats. The bold, characteristic BMW swage line gives powerful emphasis to the shoulder area. It starts at the front wing and rises continuously to the rear lights, with the door handle integrated neatly into it. The wide-set wheel arches reinforce the broad, powerful impression created by the rear of the new BMW 1 Series, and the rear light units too are set well apart. Each unit has a raised surround, and the different lights within it are structured horizontally.

Premium ambience and excellent use of interior space.

Inside, a combination of typical BMW design features and innovative details creates a fresh, youthful and contemporary ambience, with a focus on

spaciousness and driving pleasure. High-quality materials further enhance the premium feel. Where an optional navigation system and the BMW Professional radio are fitted, the new BMW 1 Series also comes equipped with the BMW iDrive system. This comprises a controller on the centre console, favourites buttons and a freestanding flatscreen monitor.

The new BMW 1 Series also offers much more storage space, with large door pockets, two cupholders in the centre console, a roomy glove compartment, and a compartment under the armrest. The 360-litre luggage compartment expands to a maximum of 1,200 litres by lowering the 60/40 split-folding rear seats, giving a flat surface extending all the way to the front seats. The optional through-loading system has 40/20/40 split-folding rear seats.

BMW Sport Line and BMW Urban Line make their debut.

The new BMW 1 Series is the first car to feature the new BMW Lines, opening up a whole new world of possibilities for personalization. An exclusive range of equipment options, colour schemes and materials for the interior and exterior equipment help to show off the dynamic design and technological sophistication of the new BMW 1 Series to best advantage. All the components of the BMW Lines are matched down to the last detail, and create a striking visual impact. Other individually customizable features include a choice of seat coverings, interior trims and accent strips and light-alloy wheels.

The new BMW 1 Series is also offered with numerous design and material options apart from those included in the new BMW Lines. There are currently three non-metallic and eight metallic exterior paint colours.

The new generation of petrol engines: dynamic power delivery and outstanding fuel efficiency thanks to BMW TwinPower Turbo technology.

The 1.6-litre petrol engines making their debut in the BMW 116i and BMW 118i models use BMW TwinPower Turbo technology, consisting of a twin-scroll turbocharger, High Precision Injection, VALVETRONIC and Double-VANOS. The forced-induction system uses the twin-scroll principle, with separate ducts both in the exhaust manifold and the turbocharger itself, each serving one pair of two cylinders. Output is also boosted by VALVETRONIC variable valve control, which is fully integrated into the cylinder

head, and Double-VANOS variable camshaft control on the intake and exhaust sides. The new petrol engines are also unusually fuel-efficient, thanks mainly to High Precision Injection.

The four-cylinder engine of the new BMW 118i, which has an all-aluminium crankcase, has a maximum output of 125 kW/170 hp at 4,800 rpm, and a maximum torque of 250 Nm at between 1,500 and 4,500 rpm. It is exceptionally responsive, accelerating the car from 0 to 100 km/h in 7.4 seconds and on to a maximum speed of 225 km/h. Improved efficiency is reflected in combined-cycle fuel consumption of 5.8 to 5.9 litres per 100 kilometres and CO₂ emissions of 134 to 137 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

The new BMW 116i's four-cylinder engine provides significantly improved driving dynamics compared to the predecessor model. It has an output of 100 kW/136 hp at 4,400 rpm and a maximum torque of 220 Nm between 1,350 and 4,300 rpm. The car takes 8.5 seconds to reach 100 km/h from a standing start, and has a maximum speed of 210 km/h. The new BMW 116i's fuel consumption over the combined cycle is 5.5 to 5.7 litres per 100 kilometres, and its CO₂ emissions are 129 to 132 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

An evolutionary step forward: four-cylinder turbodiesel with BMW TwinPower Turbo technology and even greater fuel efficiency.

The 2.0-litre diesel engines with TwinPower Turbo technology for the new BMW 1 Series are now even more responsive and economical, thanks to innovations such as reduced engine friction, thermodynamically optimized turbochargers with variable turbine geometry, and next-generation common-rail direct injection with magnetic-valve injectors. The new BMW 120d marks another major advance, with maximum output increased by 5 kW over its predecessor to 135 kW/184 hp at 4,000 rpm, and maximum torque boosted by 30 Nm to 380 Nm between 1,750 and 2,750 rpm. It reaches 100 km/h from a standing start in 7.2 seconds, and has a maximum speed of 228 km/h. Combined-cycle fuel consumption has been reduced to between 4.5 and 4.6 litres per 100 kilometres, with CO₂ emissions of 119 to 122 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

The four-cylinder diesel engine of the new BMW 118d has a maximum output of 105 kW/143 hp at 4,000 rpm, and maximum torque of 320 Nm between 1,750 and 2,500 rpm. It accelerates from 0 to 100 km/h in 8.9 seconds, and has a maximum speed of 212 km/h. Its combined-cycle fuel consumption is 4.4 to 4.5 litres per 100 kilometres, with CO₂ emissions of 115 to 118 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

The new entry-level BMW 116d has a maximum output of 85 kW/116 hp at 4,000 rpm, and maximum torque of 260 Nm between 1,750 and 2,500 rpm. It accelerates from 0 to 100 km/h in 10.3 seconds, and has a maximum speed of 200 km/h. Its combined-cycle fuel consumption is an outstanding 4.3 to 4.5 litres per 100 kilometres, with CO₂ emissions an equally impressive 114 to 117 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

Still out in front in fuel-efficiency.

At a later date, the range will be expanded with the BMW 116d EfficientDynamics Edition. This too will be powered by an 85 kW/116 hp 1.6-litre diesel engine, but the exceptional fuel-efficiency of this, allied to improved aerodynamic performance and reduced rolling resistance will keep fuel consumption down to 3.8 litres per 100 kilometres and CO₂ emissions down to just 99 grams per kilometre over the EU combined cycle (provisional figures).

But a comprehensive array of consumption and emission-reducing technologies means that all variants of the new BMW 1 Series will continue to embody the concept of fuel-efficiency like no other premium car. BMW EfficientDynamics technologies fitted as standard include Brake Energy Regeneration and electromechanical servo-assisted steering plus, depending on the model, an Optimum Shift Indicator, a self-disconnecting air-conditioning compressor and tyres with reduced rolling resistance. The Automatic Start/Stop function comes as standard with both manual and automatic transmissions. Using the driving experience switch, drivers can activate ECO PRO mode, which is designed to facilitate a particularly economical driving style.

As an alternative to the standard six-speed manual transmission, the new BMW 1 Series is also available with an optional eight-speed automatic

transmission – the only car in the compact segment to offer this. Its principle benefits are faster, smother gear changes, and superior fuel-efficiency.

Perfect handling and increased comfort: high-quality suspension technology, even weight distribution and improved stability control.

The new BMW 1 Series boasts best-in-class suspension technology, with a double-joint cross-strut front axle with MacPherson struts and sway bars, and a five-link rear axle. It has a wider track than its predecessor at both front and rear, and the almost perfect 50:50 weight distribution helps to translate the dynamic advantages of the rear-wheel drive layout into an exciting responses and a more comfortable ride compared with the predecessor model.

The electromechanical power steering of the new BMW 1 Series combines typical BMW precision with very low energy consumption. The optional Servotronic function provides speed-dependent power assist. Variable Sport Steering, also available as an option, reduces the number of steering wheel rotations required to make sharp turns. Further options include Adaptive Suspension, with electronic damper regulation, and 16, 17 and 18-inch light-alloy wheels as an alternative to the standard 16-inch design.

The instant responses of the new BMW 1 Series are due to the combination of a powerful, reliable braking system and DSC (Dynamic Stability Control), which is fitted as standard. Proven features such as ABS (anti-lock braking system), DTC (Dynamic Traction Control), CBC (Cornering Brake Control) and DBC (Dynamic Braking Control) are now augmented with braking assistance, fading compensation, brake drying, hill assist, and, in DSC Off mode, an electronic rear axle differential locking system.

Torsion-resistant body, optimal weight, wide range of safety features.

The lightweight body of the new BMW 1 Series makes it more agile and improves passenger safety, with high-strength steel being used to increase the torsional resistance and strength of the passenger safety cell while minimizing weight. The advances made in this area are reflected in the car's dynamic responses and its improved power-to-weight ratio compared with its predecessor.

Crumple zones and clearly defined load paths absorb the force of an impact and deflect it away from the passenger cell. The standard safety package comprises front airbags, side airbags built into the seatbacks, front and rear head airbags, three-point automatic belts in all seats, front seatbelt tension limiters and pre-tensioners, and ISOFIX child seat mountings in the rear.

BMW ConnectedDrive: unique comfort, safety, information and entertainment options.

The new BMW 1 Series' high-tech presence is reflected in an impressive range of driver assistance and mobility services which is unique in a compact car. Options available as part of the BMW ConnectedDrive programme include Adaptive Headlights (in conjunction with the xenon headlights option), a rain sensor with automatic activation of the driving lights, high-beam assistance, Park Distance Control, a rear view camera, Park Assistant, cruise control with braking function, Lane Departure Warning with Collision Warning, and Speed Limit Info, which now for the first time also registers signs prohibiting overtaking.

Innovative technologies ensure seamless integration with the Apple iPhone and other smartphones. The Apps option allows iPhone users to do things like listen to web radio stations through the car's audio system and use Facebook and Twitter services. In-car Internet access and the new Real-Time Traffic Information function, which provides up-to-the-minute information on congestion and suggests alternative routes, are two further options that are unique in the compact segment.

High-quality standard features include driving experience switch, air conditioning, and keyless ignition.

The driving experience switch, fitted as standard on the centre console, adjusts the car's set-up to suit the driver's personal preferences. All models offer a choice of three modes, COMFORT, SPORT and ECO PRO. On BMW Sport Line models, and on cars fitted with the optional eight-speed sports automatic transmission, Variable Sport Steering or Adaptive Suspension, there is also a fourth mode, SPORT+.

The standard equipment of the new BMW 1 Series also includes remote-controlled central locking, height-adjustable front seats, electric exterior mirrors, electric front and rear windows, BMW Business radio/CD player with

six speakers and an AUX IN connection, and air conditioning. The engine is switched on by touching the Start/Stop button whenever the radio key is inside the car.

Like the predecessor five-door model, the new BMW 1 Series is made at BMW's Regensburg assembly plant, together with the BMW 3 Series Saloon, Coupé and Convertible, the BMW M3 and the BMW Z4. The plant has produced more than 4.5 million vehicles in its 25-year history.

2. At a glance.



- The new BMW 1 Series: the second generation of this pioneering premium compact range. Still the only rear-wheel-drive model in its class. Even more sporty and fuel-efficient than before, and significantly more comfortable and spacious. Outstanding interior and exclusive features, occupying a distinctive niche within its segment. Unique combination of premium-quality handling, aesthetics and innovative technology.
- Five doors. Bold hatchback body shape; distinctive sporty design with elongated lines, instantly recognizable BMW proportions and boldly shaped surfaces. Youthful, lively image enhanced by design elements highlighting the proven quality and premium status of the new BMW 1 Series.
- New BMW Sport Line and BMW Urban Line provide added scope for personalization using exclusive interior and exterior design features and equipment.
- For the first time, all the petrol and diesel engines for the BMW 1 Series now feature new BMW TwinPower Turbo technology. A new generation of 1.6-litre petrol engines: BMW 116i with 100 kW/136 hp, BMW 118i with 125 kW/170 hp. Radically redesigned 2.0-litre diesel engines: BMW 116d with 85 kW/116 hp, BMW 118d with 105 kW/143 hp, BMW 120d with 135 kW/184 hp. Also scheduled for launch soon is the BMW 116d EfficientDynamics Edition, with a 85-kW/116-hp 1.6 litre diesel engine and additional fuel-saving technologies that will keep CO₂ emissions over the EU testing cycle down to just 99 g/km.
- Thanks to BMW EfficientDynamics technology, the BMW 1 Series remains a leader in fuel economy: first car in its segment with optional eight-speed automatic transmission, Automatic Start/Stop function with both manual and automatic transmissions. ECO PRO mode is activated using the driving experience switch (included as standard).
- Significantly improved comfort and unrivalled handling thanks to rear-wheel drive, longitudinally mounted engines, perfectly balanced weight distribution and advanced suspension technology. Double-joint cross-strut front axle; five-link rear axle; high-precision electromechanical power steering with no interference from the drive train. Optional Variable Sports

Steering; DSC Driving Stability Control including DTC Dynamic Traction Control and electronically locking rear differential as standard. Adaptive Suspension with electronic damper regulation available as an option.

- Compared with the predecessor model, the body is 85 millimetres longer, the wheelbase is 30 millimetres longer, and 17 millimetres of extra width gives a more spacious interior and a sportier look. 21 millimetres more rear legroom; luggage compartment expanded from 330 to 360 litres; luggage capacity expandable to a maximum of 1,200 litres with rear seats folded down (40/20/40 split-folding rear seat available as an option). Large number of storage compartments, shelves and cupholders in cockpit.
- Highly torsion-resistant body for increased responsiveness and passenger protection. Comprehensive range of safety equipment including front, side and head airbags.
- High-quality interior with driver-friendly cockpit and outstanding materials and finishes; optional iDrive system with integral dashboard Control Display using a flatscreen design that is exclusive to BMW.
- BMW ConnectedDrive: a comprehensive selection of optional driver assistance systems and mobility services that is unique in the compact segment. High-beam assistance, Adaptive Headlights, Parking Assistant, rear view camera, Lane Departure Warning (now including Collision Warning), cruise control with braking function, Speed Limit Info (now including No Passing Info), Internet connectivity, enhanced smartphone and music player integration, Real-Time Traffic Information, and Web radio, Facebook and Twitter apps.
- Model versions:

BMW 118i: Four-cylinder in-line petrol engine with BMW TwinPower Turbo technology package, consisting of twin-scroll turbocharger, High Precision Injection, VALVETRONIC and Double-VANOS variable valve control.

Capacity: 1,598 cc, output: 125 kW/170 hp at 4,800 rpm,

Maximum torque: 250 Nm at 1,500 – 4,500 rpm,

Acceleration [0 – 100 km/h]: 7.4 seconds,

Maximum speed: 225 km/h,

Combined-cycle fuel consumption*: 5.8 – 5.9 litres/100 kilometres,

CO₂ emissions*: 134 – 137 g/km, emissions standard: EU5.

- **BMW 116i:** Four-cylinder in-line petrol engine with BMW TwinPower Turbo technology package, consisting of twin-scroll turbocharger, High Precision Injection, VALVETRONIC and Double-VANOS variable valve control.
Capacity: 1,598 cc, output: 100 kW/136 hp at 4,400 rpm,
Maximum torque: 220 Nm at 1,350 – 4,300 rpm
(240 Nm at 1,500 – 3,500 with overboost),
Acceleration [0 – 100 km/h]: 8.5 seconds,
Maximum speed: 210 km/h,
Combined-cycle fuel consumption*: 5.5 – 5.7 litres/100 kilometres,
CO₂ emissions*: 129 – 132 g/km, emissions standard: EU5.
BMW 120d: Four-cylinder in-line diesel engine with BMW TwinPower Turbo technology package, consisting of variable-geometry turbocharger, common-rail magnetic-valve direct injection (max. injection pressure: 1,800 bar).
Capacity: 1,955 cc, output: 135 kW/184 hp at 4,000 rpm,
Maximum torque: 380 Nm at 1,750 – 2,750 rpm,
acceleration [0 – 100 km/h]: 7.2 seconds,
Maximum speed: 228 km/h,
Combined-cycle fuel consumption*: 4.5 – 4.6 litres/100 kilometres,
CO₂ emissions*: 119 – 122 g/km, emissions standard: EU5.
BMW 118d: Four-cylinder in-line diesel engine with BMW TwinPower Turbo technology package, consisting of variable-geometry turbocharger, common-rail, magnetic-valve direct injection (max. injection pressure: 1,600 bar).
Capacity: 1,955 cc, output: 105 kW/143 hp at 4,000 rpm,
Max. torque: 320 Nm at 1,750 – 2,500 rpm,
Acceleration [0 – 100 km/h]: 8.9 seconds,
Maximum speed: 212 km/h,
Combined-cycle fuel consumption*: 4.4 – 4.5 litres/100 kilometres,
CO₂ emissions*: 115 – 118 g/km, emissions standard: EU5.
BMW 116d: Four-cylinder in-line diesel engine with BMW TwinPower Turbo technology package, consisting of variable-geometry turbocharger with common-rail, magnetic-valve direct injection (max. injection pressure: 1,600 bar).

- Capacity: 1,955 cc, output: 85 kW/116 hp at 4,000 rpm,
Maximum torque: 260 Nm at 1,750 – 2,500 rpm,
Acceleration [0 – 100 km/h]: 10.3 seconds,
Maximum speed: 200 km/h,
Combined-cycle fuel consumption*: 4.3 – 4.5 litres/100 kilometres,
CO₂ emissions*: 114 – 117 g/km, emissions standard: EU5.

* EU test figures, variations due to differences in the tyres fitted

3. Visual design: a statement of individual style.



- **Distinctive proportions, elegant elongated lines, powerful shape.**
- **Premium ambience and excellent use of interior space.**
- **Greater scope for personalization, with the BMW Lines.**

The drive-train layout, with a longitudinally mounted in-line engine at the front and rear-wheel drive, is unique in the compact segment. This improves the handling of new BMW 1 Series, and is also reflected in its styling, with its distinctive BMW proportions: long bonnet, wide wheelbase and a set-back passenger cell. The new BMW 1 Series is the embodiment of responsiveness and innovative elegance in a compact car, with a youthful, lively design and high-quality features adding to the excitement.

Compared with its predecessor, the new BMW 1 Series is a car that has done some growing up, and that is reflected in its larger dimensions. It is now 8.5 centimetres longer and 1.7 centimetres wider. However, the height has remained unchanged, and the result is a more elegant, elongated profile. Seen from the front and rear views, the powerful stance of this compact model immediately catches the eye.

The front: striking looks with bold curves.

The front of the car is dominated by the large BMW kidney-shaped radiator grille, boldly shaped headlight units and three-section air intake. The grille is angled forwards, adding emphasis to the challenging stance of this most sporty of compact models, while the surrounding areas catch the light and create a strong sense of three-dimensionality, with four contour lines on the bonnet forming a V that points towards the grille.

The trademark BMW double-round headlights have accent trim across their tops. In combination with the optional bi-xenon headlights, this creates a strongly focused look, powerfully enhanced by the direction indicators set into the inner light rings of the headlights and an LED accent light. This is also the first BMW model to feature side indicator lights built into the exterior mirrors.

Side view: elegantly elongated lines, powerful concave surfaces.

From the side, the proportions of the new BMW 1 Series are even more strikingly apparent. The slightly sloping roof line, sporty, angled rear windscreen and flat side windows give the car a coupé-like feel, while the Hofmeister kink – the low forward bend at the back end of the side windows – extends well into the C-pillar, making the door aperture wider and facilitating entry to and exit from the rear seats.

The design quality of the new BMW 1 Series, which is unique in the compact segment, is particularly evident in the distinctive BMW lines and dramatically curved surfaces. The bold, characteristic BMW swage line gives powerful emphasis to the shoulder area. It starts at the front wing and rises continuously to the rear lights, with the door handle integrated neatly into it. An additional character line below the doors flows sharply upwards into the outline of the rear wheel arch. The sill line provides a similarly dynamic touch, running parallel to the ground before rising steeply at the rear wheel arch, and this is nicely echoed by the outlines of the side windows. The size of the rear wheel arches draws attention to its rear-wheel-drive layout, which underpins the car's excellent driving dynamics.

The rear: compact and sporty with a wide stance.

The wide-set wheel arches reinforce the powerful impression created by the back of the new BMW 1 Series. The rear windscreen extends right across the width of the car, emphasizing its sporty yet compact feel and inviting the viewer to admire the practicality of its flexible luggage compartment. The wide-opening, slightly concave tailgate is opened by pressing the top section of the BMW emblem that sits at its centre.

The rear lights are also set well apart, creating a strong horizontal emphasis that is heightened by their raised surrounds. Where the optional xenon headlights are specified, the rear lights consist of L-shaped banks of LEDs. An additional brake light is set into the roof spoiler. The outline of the rear apron echoes that of the front bumper, while the V-shaped emblem surround leads the eye towards the road surface, visually suggesting the excellent roadholding of the new BMW 1 Series.

The interior: premium finish, dynamic lines, driver-friendly cockpit.

Inside, a combination of typical BMW design features and innovative details gives the new BMW 1 Series a fresh, youthful and modern feel, with a focus on spaciousness and driving pleasure. Lines and surfaces are dynamic and forward-leaning, with high-quality, precision-finished materials reflecting the model's premium specifications. The characteristic BMW driver-focused layout is apparent in the angled displays and controls in the middle of the instrument panel, and the ergonomic contours of the centre console, which is likewise angled towards the driver. The interior surfaces are layered, another innovation which gives the new BMW 1 Series an organic look and feel.

In conjunction with an optional navigation system and the BMW Professional radio, the new BMW 1 Series uses the BMW iDrive control system. This comprises a controller on the centre console, favourites buttons and a freestanding flatscreen monitor. The 6.5 or 8.8-inch high-resolution Control Display, which is integrated into the instrument panel, is used for all information, entertainment, telecommunications and navigation functions.

The air vents underneath this monitor, and the controls for the air conditioning and audio system, are wider than usual, visually emphasizing the generous amount of horizontal space in the interior.

The ultimate in personalization: BMW Sport Line and BMW Urban Line make their debut.

The new BMW 1 Series is the first car to feature the new BMW Lines, opening up a whole new world of possibilities for personalization. An exclusive range of interior and exterior equipment options help to show off the dynamic design and technological sophistication of the car to best advantage. The BMW Lines represent an alternative to the standard specification. They can be combined with any of the exterior paint finishes, equipment packages and individual equipment options available for the new BMW 1 Series.

The BMW Sport Line includes sports seats with exclusive coverings, a sports leather steering wheel with red contrast stitching, a red keyclasp, an adjustable armrest, high-gloss black interior trim strips and matt coral red accent strips. The instrument cluster features special Sport numbers and scales. The ambient lighting can be switched between orange and white, and includes additional light sources in the centre console and footwell. Other features of

the BMW Sport Line include exclusive 16-inch star spoke light-alloy wheels, black trim for the exhaust tailpipe, and door sill finishers with "BMW Sport" lettering. The bars of the kidney grille, the trim bar in the central air intake, the side intake surrounds and the rear bumper trim are all high-gloss black. Additional options include high-gloss black mirror caps and 17-inch bi-colour light-alloy wheels.

The BMW Urban Line includes special cloth/leather seats, a sports leather steering wheel, an adjustable armrest, and contemporary interior trim finishers in acrylic glass. This has a strong sense of depth and is available in white or black with matt oxide silver accent strips. A striking effect is also provided by the ambient and courtesy lights, which can be switched between orange and LED royal blue and white and royal blue respectively. An additional light source on the B-pillar enhances the effect of the illumination.

The distinctive exterior includes special 16-inch V-spoke alloy wheels or optional 17-inch high-gloss white wheels with an angled surface, and white rear bumper trim. Additional design accents on the front include white kidney bars with chrome-plated fronts and a white trim bar for the centre air intake. The side intake surrounds are painted in the same colour as the car, and the BMW Urban Line also includes door sill finishers with "BMW Urban" lettering and a white keyclasp. White mirror caps are available as an option.

The components of the BMW Lines are matched down to the last detail, and create a striking visual impact. Other individually customizable features include a choice of seat coverings, interior trim finishers, accent strips and light-alloy wheels. The range of Original BMW Accessories for the new BMW 1 Series also includes products specifically designed for each of the two BMW Lines, including bags, floor mats and key holders.

The new BMW 1 Series is also offered with numerous design and material options apart from those included in the new BMW Lines. The standard specification includes interior trim finishers in satin silver and Move cloth seats, while options include additional interior trim finishers and accent strips, and Dakota leather seats in a choice of two colours. All upholsteries are also available for the optional sports seats. There are currently three non-metallic and eight metallic exterior paint colours to choose between.



4. The driving experience: Uniquely dynamic with enhanced comfort.

- **More powerful and more efficient: a new generation of four-cylinder petrol engines, updated diesels.**
- **Unique in its class: the eight-speed automatic transmission.**
- **Significantly improved ride comfort, driving experience switch as standard, variable sport steering and Adaptive Suspension as options.**

At launch, the new BMW 1 Series will be available with a choice of five four-cylinder engines, all of them incorporating BMW TwinPower Turbo technology. In the new-generation petrol engines of the BMW 116i and BMW 118i, this combines instantaneous power delivery with exemplary fuel consumption and emissions figures. And a comprehensive array of updates to the 2.0-litre turbodiesel engines in the new BMW 116d, BMW 118d and BMW 120d enable these models too to extend their fuel-efficiency advantage over competitor compact models.

The new BMW 1 Series is the first and only car in its class to offer the option of an eight-speed automatic transmission. A driving experience switch is fitted as standard, enabling vehicle set-up to be changed to suit individual preferences – the precise drive-train and suspension parameters affected vary depending on the specification of the car. The defining characteristic of the driving experience in the new BMW 1 Series is its responsiveness, and this is primarily due to its rear-wheel drive layout and almost perfect 50:50 weight distribution. Sophisticated suspension technology enables it to deliver a ride that is noticeably more comfortable than that of its predecessor. For even sportier handling – without sacrificing any of this ride comfort – there is also the option of Adaptive Suspension with electronic damper regulation.

**The new generation of petrol engines:
dynamic power delivery and outstanding fuel efficiency
thanks to BMW TwinPower Turbo technology.**

The 1.6-litre petrol engines making their debut in the BMW 116i and BMW 118i models use BMW TwinPower Turbo technology, consisting of a twin-scroll turbocharger, High Precision Injection, VALVETRONIC variable

valve control and Double-VANOS variable camshaft control. This design is based on that of the multi-award-winning 225 kW/306 hp in-line six-cylinder engine with BMW TwinPower Turbo found in models such as the BMW 135i and BMW 135i Convertible. Like that engine, the new four-cylinder units too are part of BMW's EfficientDynamics design strategy, which aims to continually increase driving pleasure while reducing fuel consumption and emissions.

The forced-induction system of the new BMW 1 Series uses the twin-scroll principle, with separate ducts both in the exhaust manifold and the turbocharger itself, each serving one pair of two cylinders. This enables more efficient use to be made of the exhaust pressure waves to drive the turbocharger, so in typical BMW fashion the engine responds instantly to any movement of the throttle. Output is also boosted by VALVETRONIC variable valve control, which is fully integrated into the cylinder head, and Double-VANOS variable camshaft control on the intake and exhaust sides. The patented BMW VALVETRONIC technology steplessly adjusts intake valve timing, rendering the throttle valve of earlier engines obsolete. The amount of air required for combustion is regulated within the engine itself, minimizing throttling losses during gas exchange and improving engine efficiency. The new engines are unusually fuel-efficient, thanks mainly to High Precision Injection. The fuel supply is precisely regulated by magnetic-valve injectors with a maximum injection pressure of 120 bar, positioned centrally between the valves directly next to the spark plug.

The four-cylinder engine of the new BMW 118i, which has an all-aluminium crankcase, has a maximum output of 125 kW/170 hp at 4,800 rpm, and a maximum torque of 250 Nm at between 1,500 and 4,500 rpm. It is exceptionally responsive, accelerating the car from 0 to 100 km/h in 7.4 seconds and on to a maximum speed of 225 km/h. Improved efficiency is reflected in combined-cycle fuel consumption of 5.8 to 5.9 litres per 100 kilometres and CO₂ emissions of 134 to 137 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

The four-cylinder engine of the new BMW 116i too provides significantly improved driving dynamics compared to the predecessor model. It has an output of 100 kW/136 hp at 4,400 rpm and a maximum torque of 220 Nm between 1,350 and 4,300 rpm. What is more, the overboost function

temporarily increases this torque figure to 240 Nm between 1,500 and 3,500 rpm, for an extra surge of acceleration. The car takes 8.5 seconds to reach 100 km/h from a standing start, and has a maximum speed of 210 km/h. Fuel consumption over the combined cycle is 5.5 to 5.7 litres per 100 kilometres, and CO₂ emissions are 129 to 132 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

An evolutionary step forward: four-cylinder turbodiesel with BMW TwinPower Turbo technology and even greater fuel efficiency.

Wide-ranging design modifications have enabled the four-cylinder 2.0-litre turbodiesel engines in the new BMW 1 Series to build on their competitive advantage in the areas of output and fuel efficiency. These include aluminium crankcases, reduced engine friction, thermodynamically optimized turbochargers with variable turbine geometry, and next-generation common-rail direct injection with magnetic-valve injectors.

The new BMW 120d represents a significant advance on its predecessor, with a 5 kW increase in maximum output to 135 kW/184 hp at 4,000 rpm, and maximum torque boosted by 30 Nm to 380 Nm between 1,750 and 2,750 rpm. It reaches 100 km/h from a standing start in 7.2 seconds, and has a maximum speed of 228 km/h. Combined-cycle fuel consumption has been reduced to between 4.5 and 4.6 litres per 100 kilometres, with CO₂ emissions of 119 to 122 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

The four-cylinder diesel engine of the new BMW 118d has a maximum output of 105 kW/143 hp at 4,000 rpm, and maximum torque of 320 Nm between 1,750 and 2,500 rpm. The car accelerates from 0 to 100 km/h in 8.9 seconds, and has a maximum speed of 212 km/h. Its combined-cycle fuel consumption is 4.4 to 4.5 litres per 100 kilometres, with CO₂ emissions of 115 to 118 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

The new entry-level BMW 116d, meanwhile, has a maximum output of 85 kW/116 hp at 4,000 rpm, and maximum torque of 260 Nm between 1,750 and 2,500 rpm. It accelerates from 0 to 100 km/h in 10.3 seconds, and has a maximum speed of 200 km/h. Its combined-cycle fuel consumption is an outstanding 4.3 to 4.5 litres per 100 kilometres, with CO₂ emissions an equally

impressive 114 to 117 grams per kilometre (EU test figures, variations due to differences in the tyres fitted).

Eight-speed automatic transmission: sporty, fuel-efficient, and unique in a compact car.

The standard six-speed manual petrol and diesel versions of the new BMW 1 Series offer efficient power transmission and precise gear changes. In addition, the BMW 1 Series is the only compact car also available with the option of an eight-speed automatic transmission, offering fast, smooth gear changes and excellent fuel efficiency. The innovative architecture of its wheel set allows more gears and a better spread of ratios, with barely any increase in weight over the existing six-speed automatic gearbox for the BMW 1 Series. In fact, the unusually high efficiency of the eight-speed automatic transmission means that fitting it to the most powerful new BMW 1 Series models actually results in lower fuel consumption and CO₂ figures than with a manual transmission.

The Steptronic function used in the automatic transmission allows gear changes to be initiated manually using the electronic selector lever. A further option for the BMW 120d is the eight-speed sports automatic transmission, which enables even more dynamic gear changes, and includes shift paddles on the steering wheel.

Perfect handling and increased comfort: high-quality suspension technology, even weight distribution and improved stability.

The new BMW 1 Series boasts best-in-class suspension technology, with a double-joint cross-strut front axle with MacPherson struts and sway bars, and a five-link rear axle. The high aluminium content of the front axle structure effectively reduces the unsprung mass, while noise levels have also been reduced and crash performance improved. Both the front and rear axles have double elastic bearings and extra-large bearing blocks for improved responsiveness, and a significantly more comfortable ride compared with the predecessor model. The car also handles better, and especially in combination with the optional Adaptive Suspension, this makes for a more involving driving experience. The new BMW 1 Series has a wider track than its predecessor, and the almost perfect 50:50 weight distribution helps to translate the

dynamic advantages of the rear-wheel drive layout into an exciting and agile ride.

Fitted as standard, the driving experience switch on the centre console of the new BMW 1 Series allows adjustments to be made to vehicle set-up. These affect the engine programming, the settings of the DSC (Dynamic Stability Control) and optional Servotronic, and the shift points and timing of the optional automatic transmission. On standard-specification models, there are three modes to choose from – COMFORT, SPORT and ECO PRO. On BMW Sport Line models, and on cars fitted with the optional eight-speed sports automatic transmission or variable sport steering, there is also a fourth mode, SPORT+. Where the Professional Navigation System is fitted, drivers can see the current power and torque output of the engine on the Control Display.

The new BMW 1 Series has electromechanical power steering as standard, combining typical BMW precision with very low energy consumption. The optional Servotronic function provides speed-dependent power assist. Variable sport steering, also available as an option, reduces the number of steering wheel rotations required to make sharp turns. In this mechanical system, steering ratios are adjusted using a variable steering rack. Parking and turning are safer and easier, requiring minimal steering effort, but the typical BMW steering precision and directional stability at high speeds are maintained.

Also available as an option on the new BMW 1 Series is Adaptive Suspension. The system's electronically regulated dampers automatically adjust to the current driving style and road conditions. Their behaviour changes depending on which of the three driving experience modes are selected – COMFORT, SPORT or SPORT+ – with the latter in particular giving a much stiffer ride. The Adaptive Suspension is 10 millimetres lower than the standard suspension, but this has no effect on the improved ride comfort when the car is in COMFORT mode.

As an alternative to the standard 16-inch wheels, the new BMW 1 Series is also available with 16, 17 and 18-inch light-alloy wheels. The car owes its instant responses to the combination of a powerful, reliable braking system and DSC (Dynamic Stability Control), which is fitted as standard. Proven

features such as ABS (anti-lock braking system), DTC (Dynamic Traction Control), CBC (Cornering Brake Control) and DBC (Dynamic Braking Control) are now augmented with braking assistance, fading compensation, brake drying and hill assist. DTC mode increases the intervention thresholds of DSC, making it easier to gain traction when driving on loose sand or deep snow. By allowing slight slippage of the drive wheels, it also facilitates controllable oversteer. DSC Off mode activates the electronic rear axle differential locking system. If either of the drive wheels suffers wheelspin while accelerating through tight bends, brake force is applied to this individually, so that the opposite wheel maintains grip.



5. **BMW EfficientDynamics in the new BMW 1 Series: further strengthening a leadership position.**

- **BMW TwinPower Turbo technology for petrol and diesel engines.**
- **Automatic Start/Stop function available even in conjunction with eight-speed automatic transmission.**
- **ECO PRO mode included as standard for more economical driving.**

Ever since 2007, the BMW 1 Series has offered a very contemporary take on Sheer Driving Pleasure, thanks to an unrivalled array of technologies to reduce emissions and fuel consumption, all fitted as standard. The new BMW 1 Series takes these BMW EfficientDynamics technologies even further: the standard Automatic Start/Stop function is now also available in conjunction with an automatic transmission, and the new ECO PRO mode increases the potential for an economical driving style.

The key to the low fuel consumption of the new BMW 1 Series range is the efficiency of its engine. A new generation of four-cylinder petrol engines with BMW TwinPower Turbo technology sets a new benchmark for the combination of fuel economy and driving enjoyment. The outputs of the BMW 116i and BMW 118i are 10 and 20 kW higher than their respective predecessor models, yet at the same time, fuel consumption has been reduced by up to 10 per cent. A systematic programme of modifications to the BMW TwinPower Turbo diesel engines likewise increases the fuel-efficiency advantage that these have over their competitors.

BMW TwinPower Turbo: the most efficient way to enhance driving pleasure.

The two new four-cylinder 1.6-litre petrol engines have outputs of 100 kW/136 hp (BMW 116i) and 125 kW/170 hp (BMW 118i). Both feature BMW TwinPower Turbo technology, including a twin-scroll turbocharger, High Precision Injection, VALVETRONIC variable valve control and Double-VANOS variable camshaft control.

This is the first time that four-cylinder engines have been fitted with BMW TwinPower Turbo, which represents an exceptionally fuel-efficient way

of boosting output. In normally aspirated engines, responsiveness could only be enhanced to the same degree by significantly increasing capacity, and therefore weight and fuel consumption. The design draws on the BMW engineers' long experience of building high-performance turbo engines. The BMW 2002 turbo, launched in 1973 with a four-cylinder, 125 kW/170 hp engine, was the first European production car to be fitted with an exhaust gas turbocharger, and is still regarded as the template for a compact, high-performance driver's car. In 1983, the first turbocharged engine ever to win a Formula 1 world championship was a Brabham BMW driven by Nelson Piquet.

Thanks to the inclusion of BMW TwinPower Turbo technology, the three four-cylinder, 2.0-litre diesel engines, with outputs of 85 kW/116 hp in the BMW 116d, 105 kW/143 hp in the BMW 118d and 135 kW/184 hp in the BMW 120d, all extend their lead over the competition in the area of fuel efficiency. Innovations such as aluminium crankcases, reduced engine friction, thermodynamically optimized turbochargers with variable turbine geometry, and next-generation common-rail direct injection with magnetic-valve injectors all help to improve low-rev pulling power and fuel economy. A centrifugal-force pendulum built into the dual-mass flywheel compensates for rotational irregularities, and so ensures a smooth ride at low revs. These enhancements represent the latest stage in the success story of BMW four-cylinder diesel engines, which earned the predecessor of the new BMW 118d the title of "World Green Car of the Year".

The widest array yet of BMW EfficientDynamics technologies.

All BMW 1 Series models make extensive use of intelligent energy management systems, including Brake Energy Regeneration, automatically disconnecting ancillary components, and electromechanical power steering. Depending on the model, they may also be fitted as standard with an Optimum Shift Indicator, a high-efficiency rear differential, a map-regulated oil pump, a pressure/rev-regulated electric fuel pump, a self-disconnecting air-conditioning compressor and tyres with reduced rolling resistance. The Automatic Start/Stop function, which switches off the engine when it is stationary at traffic lights or in slow-moving traffic, is included as standard on the new BMW 1 Series with both manual and automatic transmissions.

The optional eight-speed automatic transmission also contributes to improved efficiency. Internal friction is exceptionally low, and torque converter slip is very slight, essentially occurring only when the car pulls off. The wide spread of gear ratios and intelligent gear selection mechanism facilitate economical driving at low revs. In fact, BMW 118i and BMW 120d models with the automatic transmission actually use less fuel and produce less emissions than models with manual transmission. And all diesel models in the new BMW 1 Series range emit less than 120 grams per kilometre of CO₂ when fitted with the eight-speed automatic transmission.

ECO PRO mode facilitates a more economical driving style.

ECO PRO mode is activated by the driving experience switch. It adjusts the engine map, heating, air conditioning, and mirror/seat heating to minimize fuel consumption. The resulting increase in range is shown on a display. It also provides helpful prompts to help make driving style more economical, which appear in the instrument cluster and, where fitted, the Control Display. In particular, the ECO PRO display in the lower part of the rev counter helps the driver to regulate throttle usage so that the engine continues to operate fuel-efficiently.

As a result, the new BMW 1 Series embodies the concept of fuel-efficiency like no other premium car, building on the strengths of its predecessor in this area. At a later date, the range will be expanded with the BMW 116d EfficientDynamics Edition. This will be powered by a four-cylinder 1.6-litre diesel engine, and feature a number of fuel-saving and emission-reducing technologies, including solutions to further optimize drive-train efficiency, improve aerodynamic performance and reduce rolling resistance. The BMW 116d EfficientDynamics Edition will have an output of 85 kW/116 hp, with fuel consumption of 3.8 litres per 100 kilometres and CO₂ emissions of 99 grams per kilometre over the EU combined cycle (provisional figures).



6. **BMW ConnectedDrive in the new BMW 1 Series: a new benchmark in smart connectivity.**

- **An array of driver assistance systems and mobility services unrivalled in the compact segment.**
- **New and available for the first time on the BMW 1 Series: Lane Departure Warning with Collision Warning and Speed Limit Info with No Passing Info.**
- **Enhanced convenience, safety and Infotainment with Internet access, Real-Time Traffic Information and apps and new-look BMW Online portal.**

The commitment of the BMW 1 Series to high technology is reflected in an impressive range of driver assistance and mobility services which is unique in a compact car. The BMW ConnectedDrive options link driver, vehicle and outside world to improve comfort and safety while providing a wide spectrum of information and entertainment.

The Adaptive Headlight function incorporated in the adaptive xenon light option adjusts the illumination depending on the vehicle's speed, steering angle and rate of turn. At low speeds, the turning lights built into the fog lamp illuminate the road in the direction of travel. High-beam assistance is also included in the package. Other options available for the new BMW 1 Series include a rain sensor with automatic activation of the driving lights, and cruise control with braking function, which automatically manages the engine, brakes and automatic gearbox to maintain the speed set by the driver.

To make manoeuvring and parking easier and more accurate, there is Park Distance Control and a rear view camera, the feed from which is shown in the iDrive Control Display. And another option, Park Assistant, aids parallel parking by identifying suitable spaces and steering the car into them if required.

Exclusive to the new BMW 1 Series: driver assistance systems with enhanced functionality.

The Lane Departure Warning system of the BMW 1 Series now incorporates Collision Warning. It uses a camera at the bottom of the rear-view mirror to monitor the road markings and help avoid unintended changes of direction. The camera also monitors the position of other vehicles and, if required, alerts

the driver to the danger. There are two levels of urgency to its warning: when a possible collision risk is first detected, a warning light comes on in the instrument cluster; and if evasive action is needed, the light flashes and an alarm sounds.

The Speed Limit Info system has also been upgraded in the new BMW 1 Series. The car's camera now recognizes not only roadside and overhead speed limit signs, but also no-passing signs. Symbols in the instrument panel then advise the driver of the current speed limit, and whether overtaking restrictions are in force.

Stay online on the road: apps for in-car web radio and Facebook and Twitter usage.

Innovative technology has been used to facilitate the integration of Apple iPhones and other smartphones and music players, including online services. BMW Apps allow iPhone users to receive web radio stations and display Facebook and Twitter posts on the vehicle display. The new BMW Live function uses the data connection of the driver's mobile to access selected content from the BMW Online service, including weather and news updates and Google Local Search. And in conjunction with the Professional Navigation System and BMW Assist, the new-look BMW Online portal provides even more detailed information on the current route and destination, with weather reports, details of parking space availability and the Google Local Search tool, plus news, email and address book functions. The new BMW 1 Series is also still the only car in the compact segment to offer Internet access.

Another new option is Real-Time Traffic Information. Available in conjunction with one of the optional navigation systems, this provides up-to-the-minute details of congestion on motorways, arterial roads and key urban routes. It suggests alternative routes, and recalculates journey times to reflect the current traffic conditions.



7. Bodywork and safety: less weight equals more responsiveness, comfort and protection.

- **Significantly longer wheelbase and wider track result in more interior space, luggage capacity increased by 30 litres to 360 litres.**
- **Intelligent lightweight construction improves power-to-weight ratio in spite of comprehensive standard equipment levels.**
- **Excellent crash protection, with ultra-rigid passenger cell and six airbags.**

The larger dimensions and even stronger bodywork of the new BMW 1 Series mean that it represents a significant advance on its predecessor in terms of both interior safety and crash protection. Carefully selected materials and innovative construction techniques enable it to meet the highest standards in passive safety while keeping weight to a minimum. And in situations where a collision is unavoidable, an array of safety components, all designed to work seamlessly together, guarantees an excellent level of protection for the occupants. As a result, the BMW 1 Series is in a position to achieve top marks in all the world's major crash testing regimes.

Increased rear legroom and almost 10 per cent more luggage capacity.

The overall length of the new BMW 1 Series is 85 millimetres greater than that of its predecessor, at 4,324 millimetres, while the wheelbase has been lengthened by 30 millimetres to 2,690 millimetres. The car also looks more powerful, as its overall width has increased by 17 millimetres to 1,765 millimetres while its height has remained unchanged at 1,421 millimetres. The rear seats have 21 millimetres more legroom, and the luggage compartment is now 30 litres bigger at 360 litres.

The new BMW 1 Series also offers much more storage space, with large door pockets, two cupholders on the centre console, a roomy glove compartment, and a compartment under the armrest. Bottles of up to one litre can be fitted into the lower door panel sections. The optional storage package includes compartments in the rear doors and nets on the front seatbacks. The luggage compartment expands to a maximum of 1,200 litres by lowering the 60/40

split-folding rear seats, giving a flat surface extending all the way to the front seats. The optional through-loading system has 40/20/40 split-folding rear seats.

Intelligent lightweight construction: better protection, responsiveness and weight-to-power ratio.

The use of intelligent lightweight construction techniques in the body of the new BMW 1 Series improves both its responsiveness and the level of protection it provides for the occupants. High and ultra-high-strength steels are used at strategic points to maximize both the torsional rigidity and structural integrity of the passenger cell, without adding unnecessary weight. The average strength of the materials used is higher than in the predecessor model, meaning that the body can be made stiffer while actually using less materials, and therefore weighs less. The benefits of this are felt in terms of safety, responsiveness and fuel economy.

As a result, in spite of its increased levels of crash protection and an enhanced specification that now includes air conditioning as standard, the weight-to-power ratio of the BMW 1 Series is now as much as 14 per cent better than that of its predecessor, depending on the model. For example, the figure for the BMW 116i has been improved from 13.9 to 12.9 kg/kW, and for the BMW 118i it is now 10.4 instead of 12.1 kg/kW.

Ultra-stiff passenger cell, comprehensive safety features.

High-strength load-bearing elements, large crumple zones and advanced restraint systems regulated by state-of-the-art electronics are the key to the excellent level of passive safety in the new BMW 1 Series. The energy of an impact is channelled along precisely defined load paths, so that as much as possible can be absorbed by the crumple zones before it even reaches the highly rigid passenger cell. The load-bearing elements along these load paths at the front, side and rear of the car make extensive use of multi-phase and hot-formed steels.

Reinforcements to the B-pillars and side skirts, high-strength side impact beams and sturdy seat cross-members reduce deformation depth and intrusion speed in side impacts. And the reinforced pillars and roof members ensure the passenger compartment is able to provide a survival cell for the occupants even if the vehicle rolls over.

The standard safety equipment includes front airbags, side airbags built into the seatbacks, front and rear head airbags, three-point automatic belts in all seats, front seatbelt tension limiters and pre-tensioners, and an ISOFIX child seat mounting system in the rear. A Tyre Defect Indicator is also fitted as standard; this is able to identify any loss of tyre pressure by monitoring the rotational speed of each individual wheel, and if any problem is detected, a light in the instrument cluster warns the driver.

To minimize the risk of collisions, the new BMW 1 Series is also fitted with dynamic brake lights. If the car brakes unusually hard or the ABS system intervenes, the brake lights flash, so the drivers of following vehicles know that they need to brake harder.



8. Equipment and accessories: unique technology for a premium driving experience.

- **Comprehensive standard specification, including air conditioning, driving experience switch, CD radio and keyless ignition.**
- **Options befitting a premium car: comfort access system, steering wheel heating, sports steering wheel, electric glass sunroof.**
- **Hard-drive-based navigation system and Harman Kardon hi-fi system for a more enjoyable driving experience.**

The new BMW 1 Series offers all the excitement of premium-quality, pioneering technology and exceptional driving pleasure in a compact car, with many superior features as standard and a wide range of attractive options. The driving experience switch, fitted as standard on the central console, adjusts the car's set-up to the driver's personal preferences, by modifying the engine programming, the settings of the DSC (Dynamic Stability Control) and optional Servotronic, and the shift points and timing of the optional automatic transmission. The standard specification of the new BMW 1 Series also includes remote-controlled central locking, height-adjustable front seats, electric exterior mirrors, electric front and rear windows, a BMW Business CD radio with six speakers and an AUX-IN connection, and air conditioning.

Options include two-zone automatic air conditioning, electrically adjustable and heated seats, a multifunction steering wheel, rear-view and exterior mirrors with automatic anti-dazzle function, fog lights, an electric glass sunroof, and a trailer tow hitch with removable ball head. The engine of the new BMW 1 Series can be switched on simply by touching the Start/Stop button when the radio key is inside the car, so it is no longer necessary to insert and turn the key. The optional comfort access system locks and unlocks the car automatically.

Entertainment: freedom of choice and quality of sound.

Both the Business and Professional Navigation Systems use on-board memory to store their map data – a Flash drive in the case of the Business system, and a hard drive in the case of the Professional system. The latter also has up to 12 gigabytes of free memory for the owner's music library. Other

entertainment options include a DVD changer, DAB radio receiver, and a 360-watt, 12-speaker Harman Kardon hi-fi system with digital amplifier.

The Original BMW Accessories range for the new BMW 1 Series also offers a Tablet DVD System for the rear, a USB audio interface and a Portable Navigation System. Carrying capacity can be increased with a rear-mounted rack, a roof rack base support system with various attachments, BMW roof boxes, a ski and snowboard bag, storage nets for the footwells and luggage compartment, and a universal holder which is attached to the headrests.



9. Manufacturing: innovative processes improve efficiency and quality.

- **New BMW 1 Series manufactured at BMW's Regensburg assembly plant, alongside the BMW 3 Series, BMW M3 and BMW Z4.**
- **Use of shared processes for various models raises productivity and quality standards.**
- **A 25-year track record of excellence in automotive manufacturing.**

The five-door version of the BMW 1 Series has been produced at the company's Regensburg assembly plant ever since the first generation of this entry-level model went on sale in summer 2004. The new BMW 1 Series too will be made here in eastern Bavaria, at this site which regularly receives top marks for the quality and reliability of its products in independent tests and customer satisfaction surveys. The expansion and modernization work carried out ahead of the start of production for the new BMW 1 Series will enhance both process efficiency and product quality. Flexibility and productivity will also be improved by the use of standardized components and processes across various models, ensuring exceptional build quality and optimum utilization of available capacity.

The Regensburg plant uses the so-called single-line system for both BMW 1 Series and BMW 3 Series models. This means that a single assembly line can produce BMW 1 Series, BMW 3 Series Saloon, Coupé and Convertible, and BMW M3 Saloon, Coupé and Convertible models in any order. Since 2009, the Regensburg has also been the site of production for the BMW Z4 Roadster.

The start of production of the new BMW 1 Series will see a further increase in the use of shared processes, in both body pressing and assembly, as BMW moves towards even more integrated production for its future models. Since 2009, a total of some 300 million euros has been invested at the plant in innovative manufacturing technologies such as a new generation of production robots, structural improvements to the body pressing and assembly operations, greater logistical efficiency, and new finish and overall

quality assurance processes. A further investment of around 370 million euros is planned for 2011/12 to increase the number of models manufactured in Regensburg and further expand production capacity.

Increased capacity and new processes in body pressing.

The expansion of the pressing shop that was completed in 2010 significantly increased both capacity and efficiency. As a result of the installation of a second pressing line, maximum output is now around 80 per cent higher. Every day, some 400 metric tons of steel and aluminium are made into bodywork components. The tool changes required when switching to the manufacture of a different part are carried out automatically. The new pressing shop also supplies doors, bonnets and side panels to other plants in the BMW Group's global network of production sites, where they are assembled using a standardized process on shared machinery with "Best Fit" technology.

The introduction of shared processes means that in future, floor pan components for the BMW 1 Series and other BMW models can all be made using the same tools. The three-layer design of the bodywork too has commonalities with other models, meaning that integrated manufacturing on a single main production line is possible. The new BMW 1 Series also features a new hinge design, which requires fewer mounting parts and simplifies the process of fitting the doors to the body of the car.

Unique environmentally friendly painting processes.

The fully automated painting line of BMW's Regensburg assembly plant sees the car bodywork undergo a multi-stage process. After rigorous cleaning, it is immersed in a cathodic dip tank, where it is turned and rolled to ensure even adhesion of the paint to the electrostatically charged metal. Next comes the sealing of the panel joins and underbody spraying, followed by the application of first the primer and then the coloured topcoat layer – this is done by a high-speed rotary bell atomizer that operates at up to 40,000 revolutions per minute. At this stage too, the bodywork is electrostatically charged to ensure the most efficient possible use of the available paint, thereby minimizing wastage and environmental impact.

The application of the fourth coat, the clear lacquer, involves a unique, environmentally sound process for dealing with the exhaust air. A combination of dry-scrubbing and air circulation reduces wastewater production by four per

cent and energy consumption by four per cent compared to conventional processes. Any overspray which does not adhere to the bodywork is blown onto filters coated with powdered stone, meaning no water is consumed in its disposal. The used powdered stone can be sold on for use as a raw material in the cement industry.

Shared processes for maximum efficiency at the assembly stage.

Ahead of the start of production of the new BMW 1 Series, BMW's Regensburg assembly plant is also introducing a set of shared processes in the area of assembly, which will help to increase productivity and cost-efficiency. It will also enable the plant to respond more flexibly to variations in demand, and by making optimum usage of available capacity it will reduce lead times for delivery to customers. The use of latest technology makes the assembly lines more ergonomic, with height and tilt-adjustable conveyor belts enabling virtually all the work to be carried out in the more comfortable standing position.

One of the changes that has made the biggest impact on assembly efficiency is the relocation of the marriage station, where bodywork and drivetrain are joined together. Standardized processes and shared machinery are used for the mounting of the front end and axles, the installation of the fixed side windows, and seat and suspension set-up. The processes developed for the manufacture of the new BMW 1 Series will provide a template for those used to make future models, both in Regensburg and at other BMW Group production sites.

BMW's Regensburg assembly works: 25 years of excellence in automotive manufacturing.

BMW's Regensburg assembly works currently employs around 8,000 people. With 300 trainees in four different areas, it is also playing an important role in developing the next generation of skilled workers. Production capacity is approximately 1,100 vehicles per day, and in 2010 a total 243,982 BMW were made in Regensburg.

A number of events are being held this year, both before and after the start of production of the new BMW 1 Series, to celebrate the 25th anniversary of the Regensburg plant. It opened in November 1986, just two years after the foundation stone was laid. Since then, ongoing investment with a total value to

date of over 3.2 billion euros has kept the site at the cutting edge of manufacturing technology and continuously increased its capacity. In 2008, the four millionth BMW car to be manufactured in Regensburg rolled off the production line.

10. Technical data.

BMW 116i, BMW 118i.



		BMW 116i	BMW 118i
Body			
No. of doors/seats		5/5	5/5
L/W/H ¹⁾ (unladen)	mm	4324/1765/1421	4324/1765/1421
Wheelbase	mm	2690	2690
Front/rear track	mm	1535/1569	1535/1569
Ground clearance	mm	140	140
Turning circle	m	10.9	10.9
Fuel capacity	approx. l	52	52
Cooling and heating system reservoir capacity	l	6.7 (7.2)	6.9 (7.2)
Engine oil capacity ²⁾	l	4.7	4.7
Unladen weight (DIN/EU)	kg	1290/1365 (1310/1385)	1295/1370 (1315/1390)
Payload (DIN)	kg	530	530
Permitted total weight	kg	1820 (1840)	1825 (1845)
Permitted axle load, front/rear	kg	865/1040	870/1040
Permitted trailer load (12%) braked/unbraked	kg	1200/650	1200/670
Permitted roof load/trailer download	kg	75/75	75/75
Luggage compartment capacity	l	360 – 1200	360 – 1200
Aerodynamic drag	c _c x A	0.31 x 2.14	0.32 x 2.14
Engine			
Type/no. of cylinders/valves		in-line/4/4	in-line/4/4
Engine technology		BMW TwinPower Turbo technology with twin-scroll turbocharger, HighPrecision Injection, VALVETRONIC fully variable valve control and Double-VANOS variable camshaft control	
Effective capacity	cc	1598	1598
Stroke/bore	Mm	85.8/77.0	85.8/77.0
Compression ratio	:1	10.5	10.5
Fuel type		Min. RON 91	Min. RON 91
Output	kW/hp	100/136	125/170
at rpm	min ⁻¹	4400	4800
Torque (with overboost)	Nm	220 (240)	250
at rpm	min ⁻¹	1350 – 4300 (1500 – 3500)	1500 – 4500
Electrical			
Battery charge/location	Ah/–	80/luggage compartment	80/Luggage compartment
Alternator current/output	A/W	170/2380	170/2380
Driving dynamics and safety			
Front suspension		Aluminium double-joint cross-strut axle	
Rear suspension		Lightweight steel five-link with double elastic bearing	
Front brakes		Single-piston sliding-caliper disc brakes	
Diameter	mm	⁴⁾ /air-cooled	⁴⁾ /air-cooled
Rear brakes		Single-piston sliding-caliper disc brakes	
Diameter	mm	⁴⁾	⁴⁾
Stability aids		As standard: DSC inc. ABS, ASC and DTC (Dynamic Traction Control), CBC Cornering Brake Control, DBC Dynamic Brake Control, brake drying function, fading compensation, hill assist	
Safety equipment		As standard: driver and front-seat passenger airbags, driver and front-seat passenger side airbags, front and rear head airbags, three-point automatic seatbelts for all seats, seatbelt tensioners and seatbelt force limiters in front seats, crash sensors, Tyre Defect Indicator	
Steering		Electromechanical power steering (EPS). Optional: Servotronic function, variable sport steering	
Overall steering ratio	:1	15.0	15.0
Front/rear tyres		195/55 R16 87H	195/55 R16 87V
Front/rear wheels		6.5J x 16 steel	6.5J x 16 steel

BMW 116i			BMW 118i	
BMW ConnectedDrive				
Comfort		Optional: BMW Assist including information service, remote functions, Real-Time Traffic Information, BMW TeleServices, mobile device integration		
Information and entertainment		Optional: Internet connectivity, BMW Online including parking information, country information, Google business search, news, real-time weather, BMW Routes, office functions, Bluetooth audio streaming, online music title update, apps		
Safety		Optional: Adaptive Headlights with turning lights, variable headlight beam distribution, variable headlight beam-throw control, high beam assistance, Park Distance Control, rear view camera, cruise control with braking function, Park Assistant, Lane Departure Warning with Collision Warning, Speed Limit Info with No Passing Info, automatic/advanced eCall		
Transmission				
Type		6-speed manual (optional: 8-speed automatic with Steptronic)		
Gear ratios	I	:1	4.552 (4.714)	4.552 (4.714)
	II	:1	2.548 (3.143)	2.548 (3.143)
	III	:1	1.659 (2.106)	1.659 (2.106)
	IV	:1	1.230 (1.667)	1.230 (1.667)
	V	:1	1.000 (1.285)	1.000 (1.285)
	VI	:1	0.830 (1.000)	0.830 (1.000)
	VII	:1	– (0.839)	– (0.839)
	VIII	:1	– (0.667)	– (0.667)
	R	:1	4.138 (3.295)	4.138 (3.295)
Differential ratio		:1	2.813 (3.077)	3.077 (3.077)
Performance				
Weight-to-power ratio (DIN unladen)		kg/kW	12.9 (13.1)	10.4 (10.5)
Specific power output		kW/l	62.6	78.2
Acceleration	0–100 km/h	sec.	8.5 (9.1)	7.4 (7.5)
	0–1,000 m	sec.	29.8 (30.1)	27.9 (28.1)
in 4th/5th gear 80–120 km/h		sec.	8.6/10.6	7.3/8.8
Max. speed		km/h	210 (210)	225 (222)
BMW EfficientDynamics				
Features included as standard		Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, Optimum Shift Indicator (manual), ECO PRO mode, intelligent lightweight construction, self-disconnecting ancillary components, map-regulated oil pump, differential with optimized-warm-up behaviour, tyres with reduced rolling resistance		
Fuel consumption (EU)³⁾				
With standard tyres				
Urban	l/100 km		7.1 (7.2)	7.5 (7.2)
Extra-urban	l/100 km		4.6 (4.7)	4.8 (4.7)
Total	l/100 km		5.5 (5.6)	5.8 (5.6)
CO ₂ emissions	g/km		129 (131)	134 (131)
With 7J x 16" rims and 205/55 R16 tyres, with 7J x 17" rims and 205/50 R17 tyres and winter tyres				
With 7.5J x 17" rims and 225/45 R17 tyres				
With 7.5J x 17" front rims, 8J x 17" rear rims, 225/45 R17 front tyres and 245/40 R17 rear tyres				
With 7.5J x 18" front rims, 8J x 18" rear rims, 225/40 R18 front tyres and 245/35 R18 rear tyres				
Urban	l/100 km		7.2 (7.4)	7.6 (7.4)
Extra-urban	l/100 km		4.8 (4.8)	4.9 (4.8)
Combined	l/100 km		5.7 (5.8)	5.9 (5.8)
CO ₂ emissions	g/km		132 (134)	137 (134)
Emissions standard			EU5	EU5

Technical data valid for ACEA countries/Some permitted weights valid only for Germany
Figures in brackets are for vehicles with automatic transmission

¹⁾ Height with roof spoiler: 1440 mm

²⁾ Oil change volume

³⁾ Fuel consumption and CO₂ emissions depend on tyres fitted

⁴⁾ Not yet available

BMW 116d, BMW 118d, BMW 120d.

		BMW 116d	BMW 118d	BMW 120d
Body				
No. of doors/seats		5/5	5/5	5/5
L/W/H ¹⁾ (unladen)	mm	4324/1765/1421	4324/1765/1421	4324/1765/1421
Wheelbase	mm	2690	2690	2690
Front/rear track	mm	1535/1569	1535/1569	1521/1556
Ground clearance	mm	140	140	140
Turning circle	m	10.9	10.9	10.9
Fuel capacity	approx. l	52	52	52
Cooling and heating system	l	7.0	7.0	7.0
Engine oil capacity ²⁾	l	5,2	5,2	5,2
Unladen weight (DIN/EU)	kg	1310/1385 (1345/1420)	1320/1395 (1345/1420)	1345/1420 (1365/1440)
Payload (DIN)	kg	530	530	530
Permitted total weight	kg	1840 (1875)	1850 (1875)	1875 (1895)
Permitted axle load, front/rear	kg	885/1055	885/1055	905/1065
Permitted trailer load (12%) braked/unbraked	kg	1200/690	1200/690	1200/710
Permitted roof load/trailer download	kg	75/75	75/75	75/75
Luggage compartment capacity	l	360 – 1200	360 – 1200	360 – 1200
Aerodynamic drag	c _x x A	0.30 x 2.14	0.30 x 2.14	0.31 x 2.14
Engine				
Type/no. of cylinders/valves		in-line/4/4	in-line/4/4	in-line/4/4
Engine technology		BMW TwinPower Turbo technology with variable-geometry turbocharger, common-rail direct fuel injection with magnetic-valve injectors, maximum injection pressure 1600 bar (BMW 120d: 1800 bar)		
Effective capacity	cc	1995	1995	1995
Stroke/bore	mm	90.0/84.0	90.0/84.0	90.0/84.0
Compression ratio	:1	16.5	16.5	16.5
Fuel type		Diesel	Diesel	Diesel
Output	kW/bhp	85/116	105/143	135/184
at rpm	min ⁻¹	4000	4000	4000
Torque	Nm	260	320	380
at rpm	min ⁻¹	1750 – 2500	1750 – 2500	1750 – 2750
Electrical				
Battery charge/location	Ah/–	80/Luggage compartment	80/Luggage compartment	80/Luggage compartment
Alternator current/output	A/W	180/2520	180/2520	180/2520
Dynamics and safety				
Front suspension		Aluminium double-link hinged-tiebar sprung axle		
Rear suspension		Five-link, double elastic bearing lightweight steel axle		
Front brakes		Single-piston floating-caliper disc brakes		
Diameter	mm	⁴⁾ /air-cooled	⁴⁾ /air-cooled	⁴⁾ /air-cooled
Rear brakes		Single-piston floating-caliper disc brakes		
Diameter	mm	⁴⁾	⁴⁾	⁴⁾ /air-cooled
Stability aids		As standard: DSC inc. ABS, ASC and DTC Dynamic Traction Control, CBC Corner Braking Control, DBC Dynamic Brake Control, brake drying function, fading compensation, hill assist		
Safety equipment		As standard: driver and front-seat passenger airbags, driver and front-seat passenger side airbags, front and rear head airbags, three-point automatic seatbelts for all seats, seatbelt tensioners and seatbelt force limiters in front seats, crash sensors, Tyre Defect Indicator		
Steering		Electromechanical power steering (EPS) Optional: Servotronic function, variable sport steering		
Overall steering ratio	:1	15.0	15.0	15.0
Front/rear tyres		195/55 R16 87H	195/55 R16 87V	205/55 R16 91V
Front/rear wheels		6.5J x 16 steel	6.5J x 16 steel	7J x 16 steel

			BMW 116d	BMW 118d	BMW 120d	
BMW ConnectedDrive						
Comfort			Optional: BMW Assist including information service, remote functions, Real-Time Traffic Information, BMW TeleServices, mobile device integration			
Information and entertainment			Optional: Internet connectivity, BMW Online including parking information, country information, Google business search, news, real-time weather, BMW Routes, office functions, Bluetooth audio streaming, online music title update, apps			
Safety			Optional: Adaptive Headlights with turning lights, variable headlight beam distribution, variable headlight beam-throw control, high-beam assistance, Park Distance Control, rear view camera, cruise control with braking function, Park Assistant, Lane Departure Warning with Collision Warning, Speed Limit Info with No Passing Info, automatic/advanced eCall			
Transmission						
Type			6-speed manual (optional: 8-speed automatic with Steptronic)			
Gear ratios		I	:1	4.002 (4.714)	4.002 (4.714)	4.110 (4.714)
		II	:1	2.109 (3.143)	2.109 (3.143)	2.248 (3.143)
		III	:1	1.380 (2.106)	1.380 (2.106)	1.403 (2.106)
		IV	:1	1.000 (1.667)	1.000 (1.667)	1.000 (1.667)
		V	:1	0.781 (1.285)	0.781 (1.285)	0.802 (1.285)
		VI	:1	0.645 (1.000)	0.645 (1.000)	0.659 (1.000)
		VII	:1	– (0.839)	– (0.839)	– (0.839)
		VIII	:1	– (0.667)	– (0.667)	– (0.667)
		R	:1	3.647 (3.295)	3.647 (3.295)	3.727 (3.295)
Differential ratio			:1	3.077 (2.647)	3.077 (2.647)	3.154 (2.647)
Weight-to-power ratio		kg/kW				
Specific power output		kW/l		15.4 (15.8)	12.6 (12.8)	10.0 (10.1)
Acceleration 0–100 km/h		sec.		42.6	52.6	67.7
0–1,000 m		sec.		10.3 (10.7)	8.9 (8.9)	7.2 (7.3)
in 4th/5th gear 80–120 km/h		sec.		31.6 (31.8)	29.7 (29.6)	27.5 (27.4)
Max. speed		km/h		8.6/11.7	7.2/9.3	5.7/7.2
Weight-to-power ratio (DIN unladen)		kg/kW		200 (200)	212 (212)	228 (228)
BMW EfficientDynamics						
BMW EfficientDynamics			Braking Energy Regeneration, electromechanical power steering,			
Features included as standard			Automatic Start/Stop function, Optimum Shift Indicator (manual), ECO PRO mode, intelligent lightweight construction, self-disconnecting ancillary components, map-regulated oil pump, switchable air conditioning compressor (BMW 116d), differential with optimized-warm-up behaviour, tyres with reduced rolling resistance			
Fuel consumption (EU)³⁾						
With standard tyres						
Urban		l/100		5.3 (5.3)	5.4 (5.3)	5.6 (5.2)
Extra-urban		l/100		3.8 (3.8)	3.8 (3.9)	3.9 (3.9)
Total		l/100		4.3 (4.4)	4.4 (4.4)	4.5 (4.4)
CO ₂		g/km		114 (115)	115 (116)	119 (116)
With 7J x 16" rims and 205/55 R16 tyres, and winter tyres (BMW 116d, BMW 118d)						
With 7J x 17" rims and 205/50 R17 tyres, with 7.5J x 17" rims and 225/45 R17 tyres						
With 7.5J x 17" front rims, 8J x 17" rear rims, 225/45 R17 front tyres and 245/40 R17 rear tyres						
With 7.5J x 18" front rims, 8J x 18" rear rims, 225/40 R18 front tyres and 245/35 R18 rear tyres						
Urban		l/100 km		5.4 (5.5)	5.5 (5.5)	5.7 (5.3)
Extra-urban		l/100 km		3.9 (4.0)	3.9 (4.0)	4.0 (4.1)
Combined		l/100 km		4.5 (4.5)	4.5 (4.5)	4.6 (4.5)
CO ₂		g/km		117 (119)	118 (119)	122 (119)
Emissions standard				EU5	EU5	EU5

Technical data valid for ACEA countries/Some permitted weights valid only for Germany
Figures in brackets are for vehicles with automatic transmission

¹⁾ Height with roof spoiler: 1440 mm

²⁾ Oil change volume

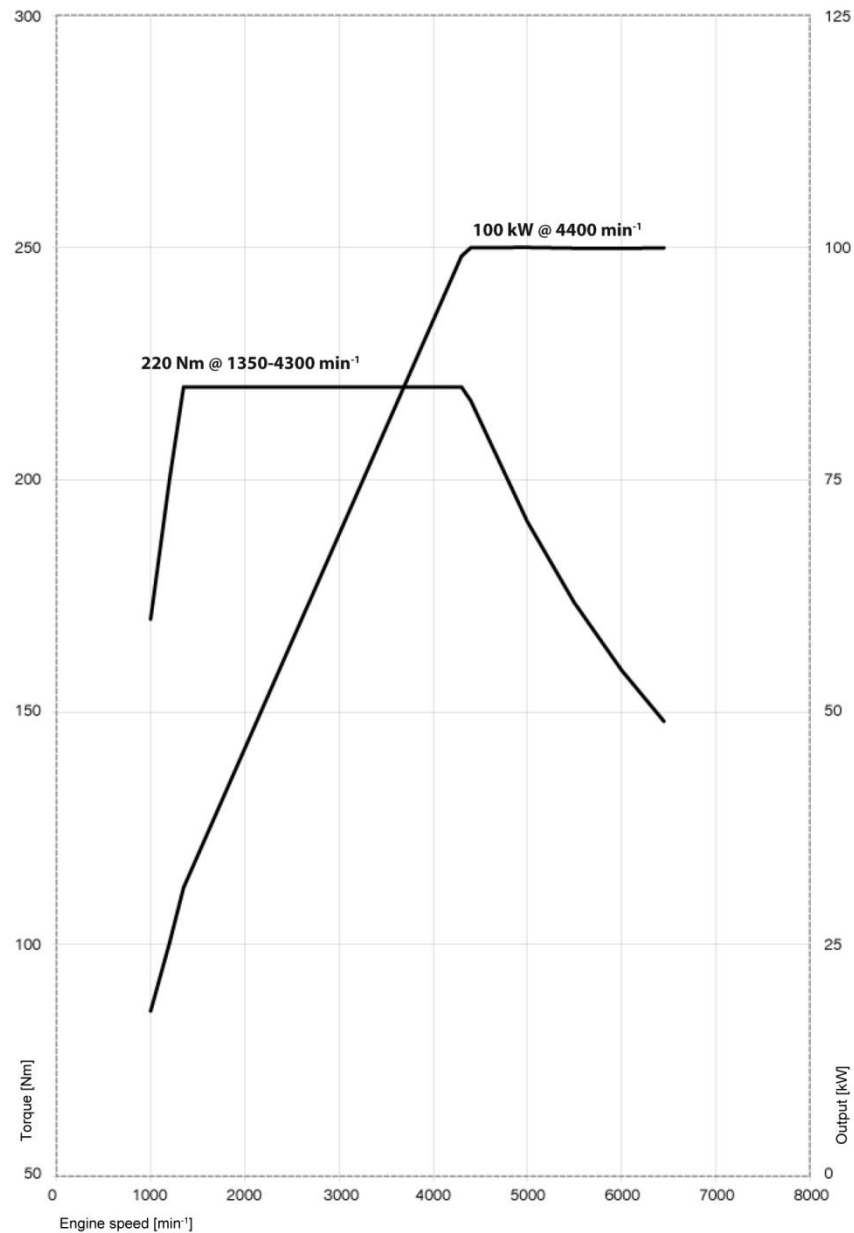
³⁾ Fuel consumption and CO₂ emissions depend on tyres fitted

⁴⁾ Not yet available

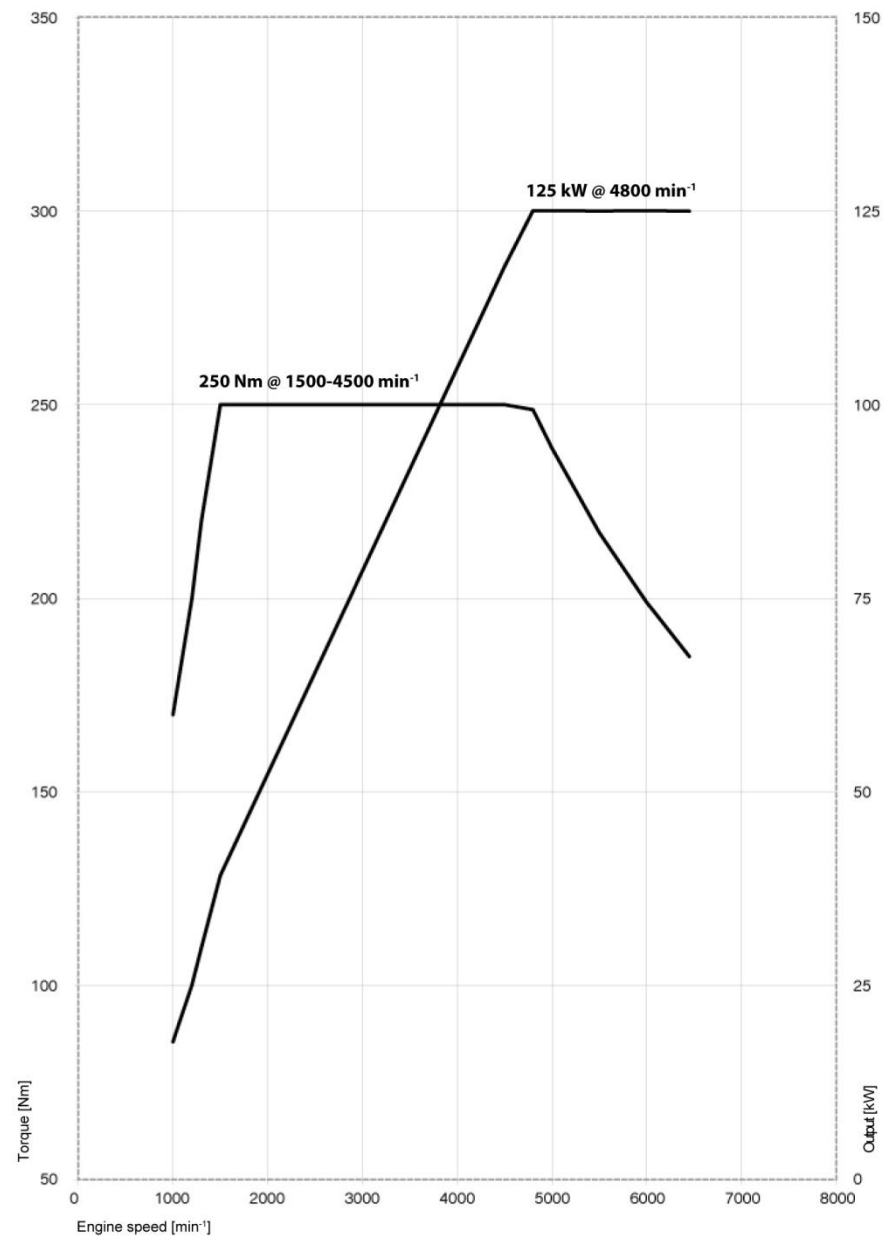
11. Output and torque diagrams.



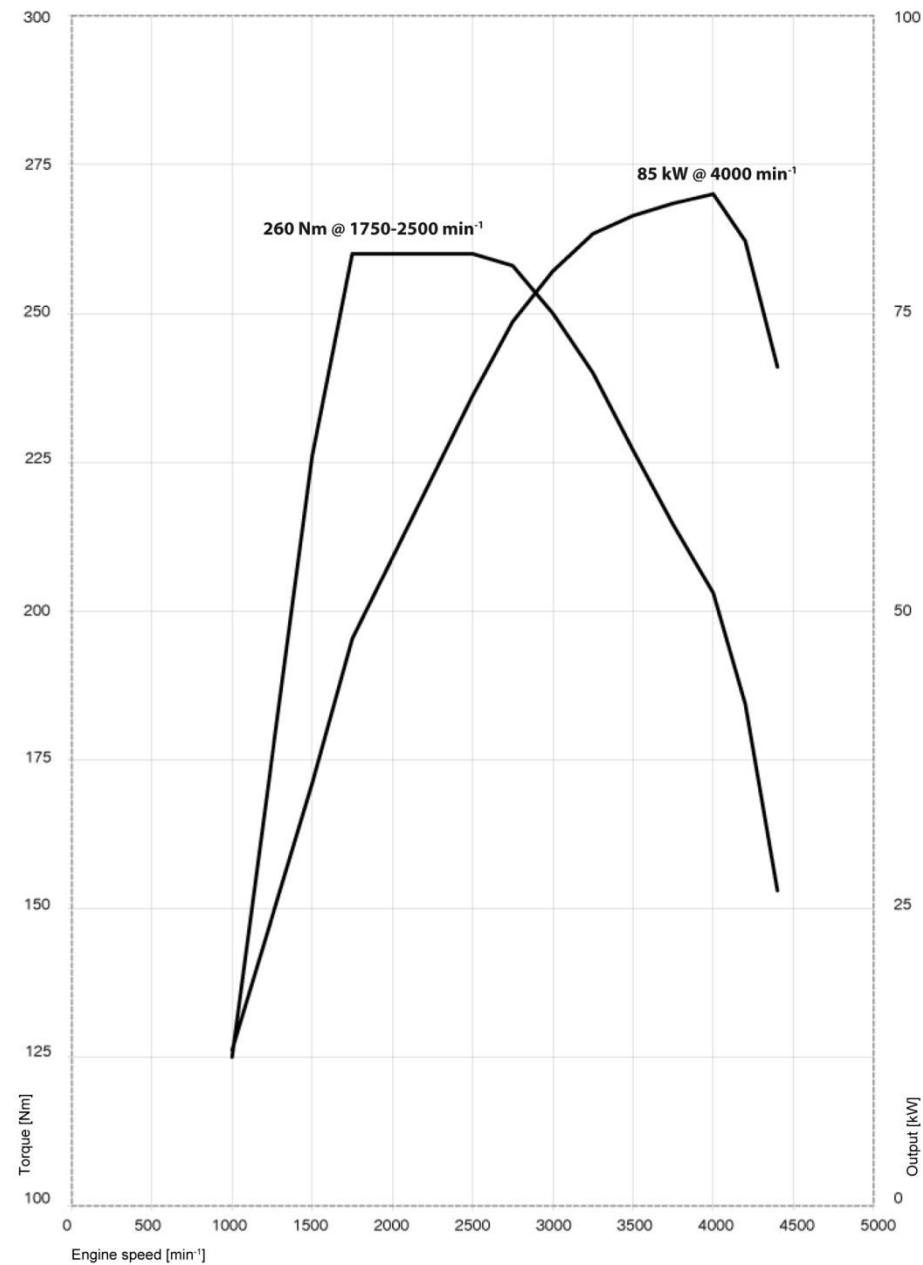
BMW 116i



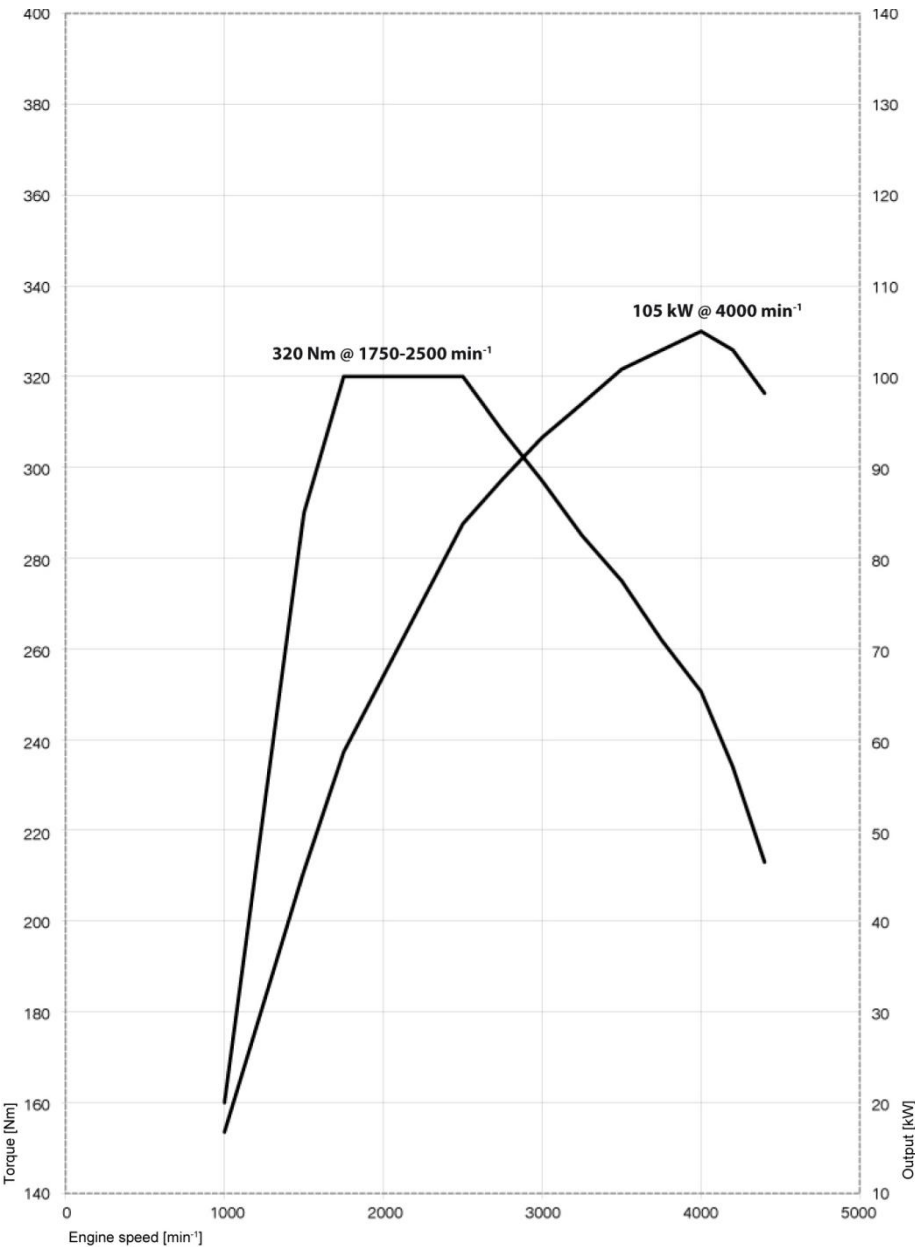
BMW 118i



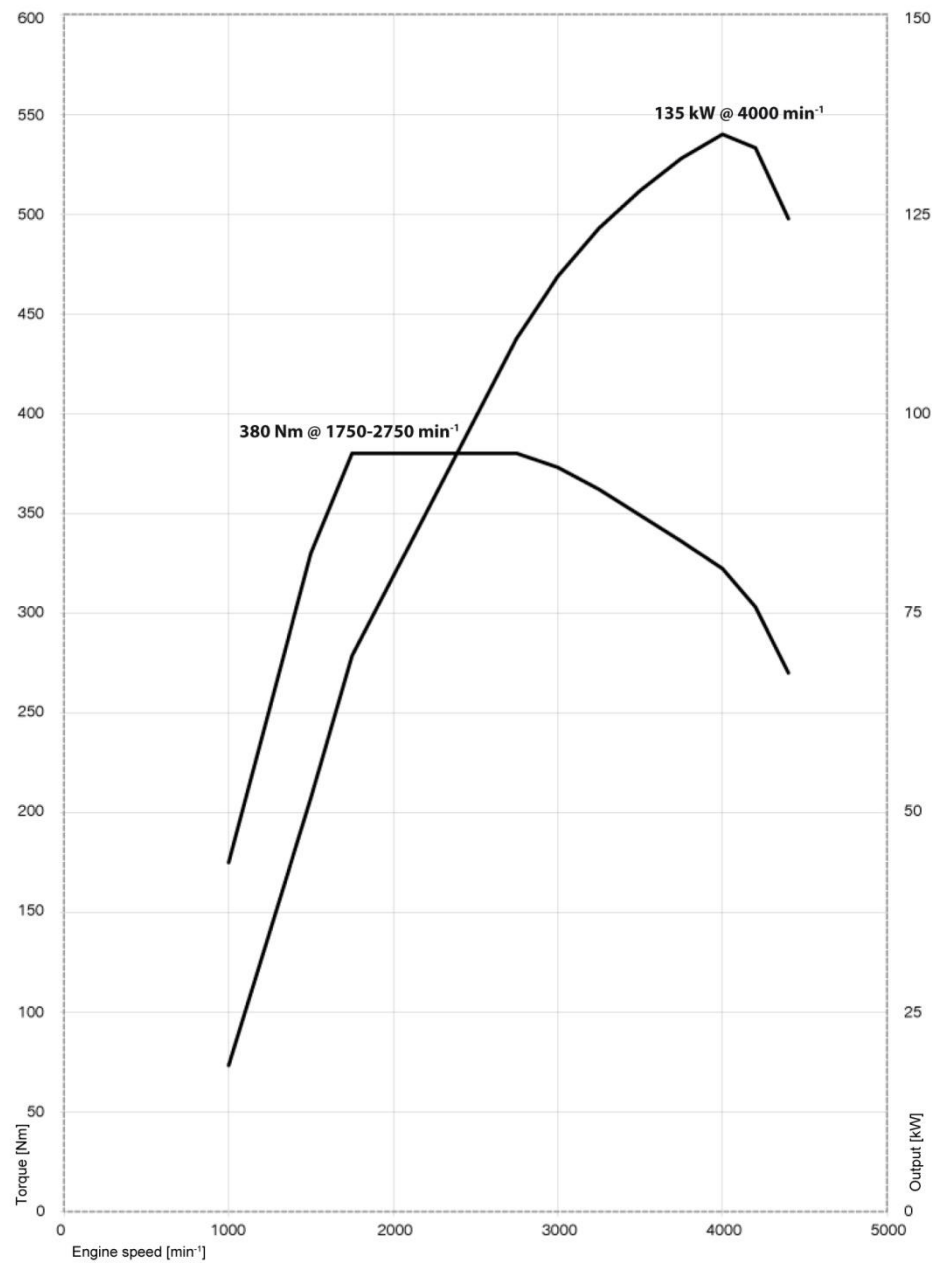
BMW 116d



BMW 118d



BMW 120d



12. Exterior and interior dimensions. BMW 1 Series.

