

The new BMW 7 Series. Contents.



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1. The new BMW 7 Series: Sporting poise and luxurious comfort in perfect harmony. (Short version)

- New full-LED headlights, a prominent BMW kidney grille and a modified front apron define the unmistakable appearance of the new BMW 7 Series range.
- New to the cockpit are the multifunctional instrument display allowing the driver to select a variety of information and the central Control Display with 3D graphics. New Rear Seat Entertainment package.
- New and upgraded engine variants raise the bar in terms of output and efficiency. Eight-speed automatic transmission is fitted as standard. Fuel savings of up to 25 per cent are possible.
- Engine line-up ranges from a BMW TwinPower Turbo diesel unit that holds the title of the world's most powerful straight-six diesel engine to the second-generation BMW ActiveHybrid 7.
- Advanced features such as proactive hybrid technology and the Driving Experience Control switch with ECO PRO mode enhance both driving comfort and efficiency.
- Optimised chassis – with self-levelling air suspension at the rear axle – gives ride comfort a noticeable boost.
- New Connected Drive highlights: latest-generation Professional navigation system, BMW Night Vision with Dynamic Light Spot, anti-dazzle High-Beam Assistant, BMW Parking Assistant, Driver Assistant Plus, Active Protection.

The new BMW 7 Series is set to reinforce its position as the most innovative sedan in the luxury segment. The flagship model series of the BMW fleet embodies sporting elegance, refined powertrain technology and luxurious comfort in equal measure. And now, by making a clear step up in terms of product substance, the Sedan is set to underline its leadership.

New LED headlights, an upgraded interior with optimised soundproofing, markedly improved ride comfort, a comprehensive selection of optional equipment and state-of-the-art safety technology combine to create an in-car experience from the top drawer. A line-up of either new or optimised drive systems, including the world's most powerful six-cylinder in-line diesel engine and the second-generation BMW ActiveHybrid 7, set new performance and efficiency benchmarks.

Body:

new LED headlights and subtle new design features.

Dynamic lines and perfectly balanced proportions continue to lie at the heart of the BMW 7 Series Sedan's sporty and elegant presence. The most eye-catching feature of the new BMW 7 Series are the new LED headlights with hallmark BMW corona rings and a smart accent strip, which now ensure the new BMW 7 Series projects a distinctive appearance at night as well. The modified BMW kidney grille with nine slats – instead of the previous 12 – and revised front apron set the new model apart from its predecessor. Elsewhere, indicators integrated into the lower section of the exterior mirrors are among the new features visible from the side. And last but not least, the powerfully chiselled rear benefits from a thin chrome strip connecting the two slim reflectors in the rear apron.

Interior: new leather seats, optimised noise levels, Rear Seat Entertainment package and sound system with extending centre speaker.

Flawlessly executed design, top-class materials, quality workmanship and outstanding practicality define the interior of the BMW 7 Series Sedan. The driver and front passenger can relax into newly designed leather seats offering optimum lateral support and unbeatable long-distance comfort. The rear passengers, too, travel in luxury and are largely cocooned from outside noise. Individual seats are also available as an option for the rear and can be adapted to passengers' needs. And the optional Rear Seat Entertainment package with a new 9.2-inch flatscreen monitor ensures a refreshing diversion is always at hand over extended journeys. The new 1,200-watt Bang & Olufsen High End Surround Sound System delivers unimpeachable sound quality. Its 16 speakers include an illuminated centre speaker which retracts almost fully into the instrument panel.

Cockpit: selectable displays in black-panel technology and central Control Display with 3D graphics.

In the new BMW 7 Series, the multifunctional instrument display behind the steering wheel takes its cues from the driver's needs. Extended black-panel technology opens up a whole new range of display options through the 10.25-inch screen. The instruments are now presented using different colours and graphics depending on the driving mode selected, and provide situation-specific information such as status and function displays.

The Control Display in the centre of the instrument panel has also benefited from visual and technical improvements and now uses high-resolution 3D graphics.

Powertrain and chassis: refined power, improved efficiency and enhanced ride comfort.

The new BMW 7 Series Sedan will hit the ground running in 2012 armed with new and comprehensively revised engines which are extremely economical and low on emissions and channel their power to the driven wheels through an intelligent eight-speed automatic transmission. Technology such as the Auto Start-Stop function, Brake Energy Regeneration, the Driving Experience Control switch with ECO PRO mode with extended functions and coasting mode pave the way for additional fuel saving.

Alongside the flagship BMW 760i with its 12-cylinder powerplant, there is a choice of the BMW 740i with a new BMW TwinPower Turbo six-cylinder in-line engine or the BMW 750i with a revised V8 petrol engine. The six-cylinder diesel engines in the BMW 730d and BMW 740d likewise offer drivers the combination of increased output and lower fuel consumption. Making its debut, meanwhile, is the new BMW 750d xDrive. Under its bonnet lies the new M Performance TwinPower Turbo six-in-line diesel engine – the world's most powerful diesel engine of its kind. Rounding off the range is the second-generation BMW ActiveHybrid 7 combining a new TwinPower Turbo six-cylinder in-line petrol engine with a 40 kW/55 hp electric motor for significantly reduced emissions.

An impressive spread of chassis wizardry helps give the ride comfort of the BMW 7 Series Sedan a noticeable boost. Complementing the optimised chassis set-up – with modified rubber bearings and new dampers – and the

self-levelling air suspension for the rear axle is the standard-fitted Electric Power Steering. State-of-the-art electronic control systems with likewise retuned software help to enhance the long-distance attributes of the BMW 7 Series Sedan and ensure that the new edition of the car makes travelling on board even more pleasurable – in terms of both dynamics and comfort.

BMW ConnectedDrive: intelligent integration is the key to comfort and assurance at the wheel along with unbeatable safety.

A unique combination of driver assistance systems and mobility services allows the BMW 7 Series to once again demonstrate its innovative edge and technical eminence over its rivals. To this end, the BMW ConnectedDrive portfolio includes impressive new features that enable the Sedan to maintain its leading position in the luxury segment.

Among the systems helping to maximise safety are BMW Night Vision + Dynamic Light Spot with pedestrian recognition technology (unique in the premium segment), the anti-dazzle LED High-Beam Assistant, Driver Assistant Plus with Lane Departure Warning and Cruise Control with Stop & Go function, Active Protection with automatic fatigue recognition and Speed Limit Info including the No Passing Info display using road sign symbols. A more powerful operating system governing the central Control Display ensures the entertainment programs are simpler to operate, optimises office and online services, and makes using the telephone that much easier. The Professional navigation system, meanwhile, is now more powerful and features new and ultra-sharp map graphics and 3D city mode. An innovative feature allowing convenient hands-free opening of the boot lid rounds off the function-focused highlights of the BMW 7 Series.



2. Design: Stylish presence, unique equipment features, an unforgettable way to cover the miles.

The BMW 7 Series meets the highest global standards when it comes to aesthetic appeal and innovative technology. In the luxury sedan segment it represents the epitome of athletic elegance and a supreme driving experience. The upgraded BMW 7 Series reaffirms its stylish presence and sporting prowess in 2012 through expressive new design features at the front and rear. Its dimensions have changed only marginally, but its eight-millimetre drop in overall height imbues its sweeping lines with extra expression and emphasises the perfect balance of the car's dynamic proportions.

All-new headlights sharpen the presence of the BMW 7 Series.

From the front, the long, broad bonnet of the BMW 7 Series gives it an elegant and expressive profile. The precise contour lines of the bonnet draw the eye to the upright new BMW kidney grille as they extend forward. The grille's chrome surround is now larger, a change which – together with a new slat arrangement (nine slats instead of 12) – gives it greater prominence and reinforces the car's presence on the road. With their elegant accent strip and hallmark BMW corona rings, the optional new full-LED headlights accentuate the unmistakable appearance of the BMW 7 Series.

The large, full-width air intake dominating the lower section of the modified front apron is now split into three sections, a pair of chrome bars marking its outer sections and adding further depth to the car's sporty looks. Two narrow vertical air intakes sit beyond even the LED foglamps to the left and right of the wide intake. These are included as part of the "air curtain" technology, which lowers fuel consumption at higher speeds by forcing the air to flow more aerodynamically around the front wheels. The design of the air curtain therefore represents a fine technological advertisement for the BMW EfficientDynamics strategy.

Hallmark BMW proportions, such as a long wheelbase, short front overhang, long, sweeping bonnet and set-back passenger compartment with a coupe-like roofline, define the sporting and elegant silhouette of the BMW 7 Series. A new design feature that stands out from the side is the indicator integrated

into the lower section of each exterior mirror, which makes the car easier to see and therefore safer to drive.

The powerful rear of the BMW 7 Series exudes a feeling of sporting assurance. The horizontal lines and subdivision of the rear into several levels visually lowers the height of the car. The design of the brand's familiar L-shaped rear lights, linked by an eye-catching chrome strip, remains unchanged. They are, however, richer in contrast thanks to differing shades of red. A second, delicately sculpted chrome strip draws a visual connection between the two slim reflectors in the rear apron and gives the rear view a more exclusive and solid feel overall. Another slim chrome bar between the four chromed tailpipe embellishers in the rear apron is a distinguishing feature of the 12-cylinder flagship model.

Exclusive design for the new Rear Seat Entertainment package.

The picture of stylish exclusivity and luxurious character is painted with equal clarity inside the new 7 Series. The interior possesses an undeniable air of quality and harmoniousness. Smoothly flowing forms, exquisite materials and stylish colour combinations determine the car's luxurious overall impression. Dakota leather and Nappa leather can now be ordered in Ivory White with the world colour Black and Veneto Beige with the world colour Veneto Beige. The outstanding build quality of the BMW 7 Series reflects the attention to detail of the car's creators, and evidence of the precise craftsmanship at work is striking.

A typical feature of BMW interiors is their unflinching focus on the driver – the way in which they gravitate ergonomically towards the person behind the wheel. In the new 7 Series, this includes the addition of newly designed, more slender front seats offering the best possible ergonomics, optimum lateral support and ultimate long-distance comfort. Sports seats and multifunction seats are also available in place of the standard items. The latter can be ordered with a folding table in the backrest or with the Rear Seat Entertainment package as an option. A brand-new feature are the 9.2-inch screens which, instead of being integrated into the front seats, appear to be “floating” on them. Their exclusive design takes its inspiration from the latest breed of flatscreen monitors, which gives them an extremely slight and lightweight look.

The new BMW 7 Series can be specified as an option with individual rear seats that can be adjusted to suit individual requirements. The backrest angle and seat position can both be varied, as can the position of the head restraints. The controls are the same as those for the front seats with memory function.

The long-wheelbase version of the BMW 7 Series provides the ideal platform on which to maximise long-distance comfort. All of the 140 millimetres added to the wheelbase of the standard-length 7 Series are used to lay on a calm and relaxed journey for the rear passengers in a first-class environment. Indeed, changes to the roofline of the long-wheelbase version create 10 millimetres of extra headroom in the rear.

Extending centre speaker adds to the audio experience.

The optimum interior soundproofing of the BMW 7 Series takes the on-board experience another step towards perfection. Additional insulation materials in the B and C-pillars, skirts and boot area team up with intricate sealing around the window frames and exterior mirrors to minimise driving noise. All of which brings the sound experience generated by the new Bang & Olufsen High End Surround Sound System even more powerfully to the fore. The 1,200-watt music system is hooked up to 16 speakers, some of which are positioned behind illuminated, satin-finish aluminium grilles sited in the mirror triangles of the doors and the parcel shelf. The most attention-seizing member of the speaker line-up is the illuminated centre speaker which extends out of the instrument panel and uses B&O Acoustic Lens Technology. Its distinctive form guarantees perfect sound quality in every seat. When the music system is switched off, the centre speaker retreats back into the instrument panel almost without trace. Meanwhile, the new ambient lighting for the interior creates a pleasant ambience, especially at night. Footwell lights for the driver and front passenger and indirect roof liner illumination via lights integrated into the B-pillars further enhance the feeling of well-being.

The colour of the ambient light can be altered according to taste.

New screen experience: the multifunctional instrument display.

A particular highlight of the BMW 7 Series is the multifunctional instrument display, which makes its debut appearance on the options list. In place of the traditional instrument cluster – in which four circular analogue dials keep the

driver informed of the car's speed, engine revs, fuel level and oil temperature – an almost seamlessly integrated 10.25-inch display provides a totally new and appealing screen experience consciously inspired by the looks of the latest electronic devices.

While the familiar format of four circular instruments is retained here, the extended black-panel technology hands the driver a whole new set of display options. For example, the display shows varying information and different colour and mood worlds in the COMFORT, SPORT and ECO PRO driving experience modes, ensuring greater safety and efficiency and demonstrating an exemplary focus on the driver. The information shown is tailored to the driving mode currently engaged and therefore changes accordingly. All of which means the display the driver sees in the instrument cluster is always the optimum one for the driving situation at hand.

While COMFORT mode brings a classic layout with four solid circular instruments, in ECO PRO and SPORT modes the rings open to offer additional space for extra information between the two instruments. In ECO PRO mode the display turns blue in colour and the rev counter morphs into an Efficient Dynamics display to show how efficiently the car is being driven. Here drivers can monitor how hard they have their foot on the accelerator, how much fuel the car is currently using and whether any energy is being recovered through recuperation. If they are pressing too forcefully on the accelerator, the full display turns grey and alerts them to the amount of fuel they are burning unnecessarily. A speedometer zoom function can also be activated in ECO PRO and COMFORT modes. This enlarges the position of the speedo needle as if a magnifying glass were being passed over it, making it even easier to see.

In SPORT mode the display takes on a signature BMW orange hue. This display mode purposefully retains a very puristic look and only shows the driver the most essential information, so that he can maintain maximum concentration on the road ahead. The speedometer shows the car's speed in digital form only with a large, centrally positioned figure, while the gear currently engaged is boldly displayed in the middle of the rev counter if the driver is shifting manually using the steering wheel paddles. As well as the changes in colour, the displays in the instrument cluster also deliver additional

information tailored to the situation at hand – such as status and function updates, Check/Control messages and navigation instructions – which drivers can call up as and when they wish.

Control Display.

The introduction of the new multifunctional instrument display is accompanied by a technical and stylistic update for the central Control Display positioned between the driver and front passenger. A black surround lends the recessed 10.25-inch display additional visual depth, which has the effect of making it look even larger. Vertical electroplated bars border the screen to the sides and add extra visual flourishes which the electroplated surrounds for the cupholder lids carry over into the centre console.



3. Powertrain and chassis: Even more ways to enjoy refined power delivery, enhanced efficiency and a step up in comfort.

The new BMW 7 Series is poised to strengthen its position even further as the most innovative sedan in the luxury segment. New and comprehensively revised engine variants set new standards in terms of performance and efficiency. All the engines available for the new 7 Series team up with an intelligent eight-speed automatic transmission and distinguish themselves with significantly reduced fuel consumption and emissions. The Auto Start-Stop function, Brake Energy Regeneration and the Driving Experience Control switch with ECO PRO mode with extended functions offer additional potential for fuel-saving. Carefully optimised suspension and Electric Power Steering for all rear-wheel-drive models also take driving comfort to a new level, while self-levelling air suspension for the rear axle likewise comes as standard on all models.

Alongside the flagship BMW 760i with its BMW TwinPower Turbo 12-cylinder petrol engine, there is a choice of the BMW 740i with a new BMW TwinPower Turbo six-cylinder in-line petrol engine or the BMW 750i with a revised BMW TwinPower Turbo 8-cylinder petrol engine. The six-cylinder diesel engines in the BMW 730d and BMW 740d also offer drivers the combination of increased output and lower fuel consumption. Making its debut, meanwhile, is the new BMW 750d xDrive. Under its bonnet lies the new M Performance TwinPower Turbo six-cylinder in-line diesel unit – the world's most powerful diesel engine of its kind. Rounding off the range is the second-generation BMW ActiveHybrid 7 combining a new BMW TwinPower Turbo six-cylinder in-line petrol engine with a 40 kW/55 hp electric motor for significantly reduced emissions.

BMW 760i: refined 12-cylinder engine still top of the tree.

The BMW TwinPower Turbo 12-cylinder petrol engine, combining two turbochargers with Double-VANOS and High Precision Direct Injection, remains the absolute benchmark. The all-aluminium powerplant generates output of 400 kW/544 hp from its 5,972 cc displacement and makes peak torque of 750 Newton metres (553 lb-ft) available as low down as 1,500 rpm. That's enough to propel the BMW 760i effortlessly from 0 to 100 km/h

(62 mph) in just 4.6 seconds and on to an electronically limited top speed of 250 km/h (155 mph). With average fuel economy of 12.8 litres per 100 kilometres (22.1 mpg) and CO₂ emissions of 299 g/km, this most cultured of power merchants achieves unprecedented efficiency for its output class.

BMW 750i: eight-cylinder engine develops more power but burns less fuel.

Making its debut under the bonnet of the BMW 750i is a revised BMW TwinPower Turbo 8-cylinder petrol engine with two turbochargers, Valvetronic, Double-VANOS and High Precision Direct Injection. The 4,395 cc eight-cylinder powerplant retains the impressively smooth assurance and spirited power delivery of its pre-update days. However, optimised high-pressure direct injection and reduced charge cycle losses – thanks in the main to the seamlessly variable control of intake valve lift – have pushed its performance potential to a higher level than its predecessor and substantially reduced its fuel economy and emissions. In its latest development stage, the engine generates peak output of 330 kW/450 hp (+ 10 %) and unleashes peak torque of 650 Newton metres / 479 lb-ft (+ 8.5 %) between 2,000 and 4,500 rpm. The engine teams up with the eight-speed automatic transmission, allowing the BMW 750i to sprint from 0 to 100 km/h (62 mph) in just 4.8 seconds and progress on to an electronically governed top speed of 250 km/h (155 mph). The eight-cylinder engine belies its improved performance with better efficiency than ever; with overall fuel consumption of 8.6 litres per 100 kilometres (32.9 mpg) and CO₂ emissions recorded at 199 g/km, the BMW 750i trumps its less powerful predecessor by a clear 25 per cent. In the Chinese market, the BMW 750i is powered by a 4-litre variant of the engine offering 300 kW/408 hp and 600 Newton metres (443 lb-ft) of torque.

BMW 740i: new six-cylinder petrol engine boasts outstanding efficiency.

The 3-litre six-cylinder in-line engine stands out with its majestic power and unparalleled high-revving character. The state-of-the-art powerplant is one of the first wave of highly efficient petrol engines to bring together BMW TwinPower Turbo technology with High Precision Direct Petrol Injection, twin-scroll turbocharging, Double-Vanos variable camshaft timing and Valvetronic variable valve timing. Peak output of 235 kW/320 hp and a

maximum 450 Newton metres (332 lb-ft) of torque on tap as low down as 1,300 rpm make this ultra-refined engine the performance equal of the outgoing BMW 740i. However, fuel economy in the EU test cycle is an impressive 7.9 litres per 100 kilometres (35.8 mpg) while CO₂ emissions of 184 grams per kilometre represent a 21 per cent reduction in its predecessor's output.

BMW 730i: entry-level engine variant with reduced fuel consumption (not available in all markets).

This proven 3-litre straight-six petrol engine develops, as before, 190 kW/258 hp and maximum torque of 310 Newton metres (229 lb-ft) at 2,600 rpm. Linking up with the new eight-speed automatic transmission allows the BMW 730i to exploit additional fuel-saving potential; average fuel economy stands at 8.6 litres per 100 km (32.9 mpg), while CO₂ emissions of 199 grams per kilometre are 13 per cent below the level recorded by its predecessor working with a six-speed transmission.

BMW 750d xDrive: new range-topping BMW TwinPower Turbo six-cylinder diesel engine with intelligent all-wheel drive.

The brand-new top-of-the-line diesel powerplant under the bonnet of the BMW 750d xDrive provides fresh evidence of BMW's pre-eminence in the area of engine technology. The world's most powerful six-cylinder in-line diesel engine grabs the headlines with its innovative and unique technology, and imbues the luxury sedan with impressive dynamics and outstanding efficiency.

Its remarkable BMW TwinPower Turbo technology features, for the first time, three-stage turbocharging with variable turbine geometry and a further developed common rail injection system to optimise the engine's output, torque and responsiveness. The precisely coordinated management of the turbochargers ensures that the 3-litre high-performance diesel engine develops imposing pulling power across the full rev range – and all with an exceptionally high level of efficiency. The first charger starts work at just over idle so the combustion chambers can be supplied at an early stage. At 1,500 rpm a larger high-pressure turbo kicks in to help the engine reach its maximum torque. Finally, the third turbocharger joins the fray at 2,700 rpm and ensures particularly impressive power delivery until maximum revs are

reached. Piezo injectors spray the fuel into the combustion chambers at up to 2,200 bar, with three pre-injections, one main injection and four post-injections of fuel during each power stroke ensuring efficient and clean combustion.

This enviable engine technology enables the six-cylinder in-line powerplant to produce maximum output of 280 kW/381 hp and impressive peak torque of 740 Newton metres (546 lb-ft) from as low down as 2,000 rpm, endowing the BMW 750d xDrive with extraordinary thrust. Indeed, the Sedan races from 0 to 100 km/h (62 mph) in only 4.9 seconds. The engine's vast reserves of power also give it a compelling elasticity. Equally impressive as its performance capability, however, are the efficiency benefits of the BMW diesel technology on board; the Sedan posts fuel economy of 6.4 litres per 100 kilometres (44.1 mpg) in the EU test cycle, which means CO₂ emissions are also suitably low at 169 g/km. Plus, BMW BluePerformance technology enables the new flagship diesel to meet the EU6 exhaust gas standard comfortably ahead of time.

The permanent, electronically controlled all-wheel drive of the BMW 750i xDrive ensures the power from this range-topping diesel finds its way safely onto the road at all times by dividing engine power between the front and rear wheels in response to the situation at hand. The system's precision and rapid responses help give the Sedan stable and dynamic driving characteristics even under demanding conditions.

BMW 740d: further reduction in fuel consumption and emissions.

The rigorous further development of BMW TwinPower Turbo technology has also given the dynamics and efficiency of the familiar six-cylinder in-line diesel engine a boost. At 230 kW/313 hp, the maximum output of the 3-litre six-cylinder diesel is five kilowatts higher than its predecessor's, while peak torque of 630 Newton metres / 465 lb-ft (+ 30 Nm / 22 lb-ft) comes on stream at 1,500 rpm. Added to which, thermodynamic optimisations sharpen the diesel model's responses and enhance its agility. Linking up with the new eight-speed automatic transmission, the more powerful BMW 740d manages to record even lower fuel consumption of 5.7 litres per 100 kilometres (49.6 mpg) to go with CO₂ emissions of 149 g/km. That's a 17 per cent improvement on its predecessor.

**BMW 730d: cleanest diesel in the luxury segment,
emitting just 148 g/km.**

Another round of fuel consumption and emissions reductions sees the BMW 730d building on its position as the world's most economical luxury sedan with the lowest emissions. Peak output of the 3-litre six-cylinder diesel engine, whose construction mirrors that of the engine in the BMW 740d, has increased by 10 kilowatts to 190 kW/258 hp. And its maximum torque has also risen to 560 Newton metres / 413 lb-ft (+ 20 Nm / 15 lb-ft). However, average fuel economy of 5.6 litres per 100 kilometres (50.4 mpg) in the EU test cycle and CO₂ emissions of just 148 g/km allow it to outperform its predecessor – married to a six-speed automatic transmission – by 17 per cent. Specifying the engine with the optionally available BluePerformance technology equips it to meet the EU6 standard.

**BMW xDrive: available as an option for the BMW 750i,
BMW 740d and BMW 730d.**

BMW xDrive intelligent all-wheel drive makes the BMW 7 Series Sedan an even more attractive proposition. In addition to the typical benefits of all-wheel drive, the electronically controlled xDrive system – which can vary the power distribution between the front and rear wheels with split-second speed – ensures top-class traction, safety and handling, and optimal power management whatever the weather and road conditions. The system has been set up to deliver greater agility and precision through corners as well, offers an ideal combination of dynamism and comfort, and provides the perfect basis for a refined driving experience.

**BMW ActiveHybrid 7: full hybrid with BMW TwinPower Turbo six-in-
line petrol engine.**

As BMW continues to push ahead with the development of intelligent hybrid drive systems, the second generation of the BMW ActiveHybrid 7 is set to celebrate its premiere in 2012. The updated model sets itself apart with lower fuel consumption and emissions, as well as innovative auxiliary functions. This latest evolution stage uses a BMW TwinTurbo six-cylinder in-line petrol engine displaying impressive high-revving characteristics, torque and efficiency. The cutting-edge petrol engine with BMW TwinPower Turbo technology is the 235 kW/320 hp variant of the unit fitted in the new BMW 740i and replaces the eight-cylinder engine used up to now.

Other hybrid components include the 40 kW/55 hp synchronous electric motor, the hybrid-spec eight-speed automatic transmission, a lithium-ion high-performance battery and power electronics underpinning intelligent energy management. The various components come together into a powerful and harmonious whole, giving the new BMW ActiveHybrid 7 exceptional dynamics and an outstanding balance between performance and fuel economy – and not only in relation to its predecessor.

With system output of 260 kW/354 hp and peak torque of 500 Newton metres (369 lb-ft), the new BMW ActiveHybrid 7 accelerates from 0 to 100 km/h (62 mph) in just 5.7 seconds. At the same time, the Sedan posts average fuel economy of 6.8 litres per 100 kilometres (41.5 mpg) and CO₂ emissions of 158 g/km. That means the more powerful hybrid technology uses some 14 per cent less fuel than a BMW 740i with a conventional drive system.

A host of innovative functions are involved in enhancing the car's dynamics and achieving the excellent efficiency of the overall system. For example, the electric motor hands the six-cylinder an extra 210 Newton metres (155 lb-ft) of torque through the boost function, should the driver need to nail a quick sprint or call on some hard mid-range acceleration. In addition, Brake Energy Regeneration, the Hybrid Start Stop function, ECO PRO mode with coasting function and proactive analysis – to prepare the car's drive system in advance for upcoming situations on the road – ensure the available energy is used as efficiently as possible (more details in the "BMW EfficientDynamics" chapter). The new BMW ActiveHybrid 7 can also run purely on electric power. If the hybrid battery has sufficient charge and the driver goes easy on the accelerator, the car can cover a distance of up to four kilometres (just under 2.5 miles) almost silently and without producing any tailpipe emissions. The top speed possible using electric power alone is 60 km/h (37 mph).

Innovative eight-speed automatic gearbox now fitted as standard.

For the year 2012 BMW is fitting all 7 Series models with the extremely effective eight-speed automatic transmission previously reserved for the BMW 760i, BMW 740d xDrive and BMW ActiveHybrid 7. Its additional ratios allow the gearbox to combine unbeatable shift comfort and efficiency, while at the same time aiding the dynamic qualities of the BMW 7 Series Sedan.

With its intelligent control technology, the eight-speed transmission boasts extremely fast shift and reaction times and direct downshift capability. The electronic transmission controller can also alter the shift characteristics as required, to cater either for a more sporty or for a more relaxed, fuel-saving driving style.

Despite a larger overall spread, eight ratios mean that the spacing between them is smaller, so that the optimal ratio is available in virtually all situations. The close ratios deliver refined and powerful acceleration as well as smooth and fuel-efficient low-rpm operation. Altogether, then, as well as providing dynamic acceleration and smooth shifting, the new eight-speed automatic also allows drivers to maintain a very economical driving style.

The chassis: optimised set-up and extended standard specification noticeably enhance comfort levels for the driver and passengers.

Dynamic performance, ride comfort and active safety are again among the stand-out qualities of the BMW 7 Series Sedan in the year 2012.

Sophisticated chassis technology plays a key role here, providing the ideal partner for the refinement and power of the drive systems. A host of measures give the ride comfort of the Sedan a noticeable boost.

Complementing the optimised chassis set-up – with modified rubber bearings and new dampers – and the self-levelling air suspension for the rear axle, Electric Power Steering is a standard feature of the models with rear-wheel drive. State-of-the-art electronic control systems with likewise retuned software help to enhance the long-distance attributes of the BMW 7 Series Sedan and ensure that the new edition of the car makes travelling on board even more pleasurable in terms of both dynamics and comfort.

Dynamics made even more comfortable: double-wishbone front axle and integral-V rear axle with self-levelling air suspension.

The front axle of the BMW 7 Series Sedan is based on the familiar aluminium double-wishbone construction combining maximum rigidity and minimised weight. The patent-protected integral-V rear axle of the BMW 7 Series Sedan is also made from aluminium. The use of modified ball joints, stiffer hydraulic dampers, new rubber bearings and carefully tuned elastokinematics has allowed the engineers to minimise vibrations and therefore bring about a

perceptible improvement in onboard comfort levels. By effectively cutting the link between the road surfaces and the drive system, the rear axle also allows the driver and passengers to enjoy excellent acoustic comfort and impressively low vibrations.

All BMW 7 Series models are now kitted out with high-comfort rear axle air suspension, which keeps the car riding at a constant height no matter what kind of driving conditions it encounters and regardless of the loads you have on board. This automatic self-levelling suspension responds to any change in load by adjusting the suspension at the relevant wheel. This means that only small interventions are required in response to spring movements caused by road imperfections and cornering tilt.

Always on the safe side: the lightweight braking system and advanced electronic control systems.

The compound braking system with lightweight, inner-vented swing-calliper disc brakes provides outstanding deceleration in any situation and brakes the Sedan to a standstill in a very short space of time, even from high speeds. In so doing, the system also offers extremely high resistance to fade as well as unbeatable braking comfort. The braking system is backed up by various state-of-the-art electronic safety systems which are integrated into the Dynamic Stability Control (DSC) package and assist the dynamic performance and active safety of the luxury sedan to equal effect. DSC incorporates the Anti-lock Braking System (ABS), Automatic Stability Control (ASC), Dynamic Traction Control (DTC), Dynamic Brake Control (DBC) and Cornering Brake Control (CBC), along with Start-Off Assistant, brake drying and an electronic limited slip function for the rear differential, which can be activated using the "DSC Off" button.

Dynamics and ride comfort to suit the occasion: Dynamic Damper Control, Dynamic Drive and the Driving Experience Control switch with ECO PRO mode.

The BMW 7 Series is the world's first car to come with an electronically controlled damping system whose dampers are adjusted at each wheel individually according to the condition of the road surface and driving style. The compression and rebound settings are adjusted continuously and independently from one another. For example, a stiff chassis setting can be

combined with comfortable responses to unevenness in the road surface. The damper settings can be pre-set by the driver using the Driving Experience Control switch. Optimised software tuning improves ride comfort while also giving agility an extra boost.

The Dynamic Drive roll stabilisation system available for the BMW 7 Series reduces, among other things, body roll in high-speed corners and under sudden changes in direction. Sensors calculate the amount of body roll and this is then counteracted quickly and precisely by rotary actuators in the front and rear axle stabilisers. The Sedan's steering behaviour and load alteration effect are also adjusted as required in this way. This system allows drivers to thread the car through corners with even greater agility and precision.

Driving Experience Control switch with ECO PRO mode and extended functions: extra sporty, comfortable or economical at the touch of a button.

The new BMW 7 Series not only sets a new dynamic benchmark for luxury cars, it also raises the bar in the class when it comes to ride comfort. The driver can alter the overall character of the Sedan towards greater sportiness or comfort using the Driving Experience Control switch with ECO PRO mode. The distinction between the different driving modes is now even more pronounced. The Driving Experience Control switch with ECO PRO mode is part of the standard specification for all models, with the exception of the BMW 760i.

Using the Driving Experience Control switch, the driver is able to customise accelerator response characteristics, engine response, power steering characteristics and the Dynamic Stability Control (DSC) thresholds. Added to which, the Servotronic function, Integral Active Steering, the automatic transmission and Dynamic Damper Control are integrated into the system too. Using the simple-to-operate rocker switch on the centre console, drivers can choose between ECO PRO, COMFORT, SPORT and SPORT+ modes. Each of these predefined set-ups activates different settings for the relevant powertrain and chassis components. The clear ground between the various modes means the differences between them are now more easily perceptible. If the Integral Active Steering option has been specified, COMFORT+ mode

is also available. This mode gains rear passengers, in particular, another noticeable increase in ride comfort.

Another button allows the driver to change the DSC settings. Selecting TRACTION mode, for example, makes it much easier to pull away on loose surfaces or in deep snow. In this mode, as well as in SPORT+, the Dynamic Stability Control thresholds are raised and Dynamic Traction Control (DTC) is activated. It is also possible to switch off DSC altogether.

The new ECO PRO mode with the addition of coasting and proactive driving assistant functions, meanwhile, helps the BMW 7 Series driver to maintain an extra-efficient and economy-conscious driving style. It does this by changing the accelerator mapping so that the same pedal travel delivers less power than in the standard mode. Also in this mode, the transmission control strategy for the automatic gearbox is modified to bring forward upshifts and delay downshifts, while intelligent energy and climate management reduces mechanical power consumption and also the energy consumption of electrical systems such as heated mirrors and seats.

But the biggest factor influencing fuel consumption figures is the driver's own personal driving habits. That is why electronic systems provide tips and incentives on how to develop a more economy-conscious driving style for the situation at hand. Special displays in the instrument cluster let the driver know by how much the driving range is being extended and indicate his fuel consumption history. In ECO PRO mode – depending on the individual driving style – average fuel consumption can be reduced by up to 20 per cent. The coasting mode, proactive driving assistant and ECO PRO Route can save a further 5 per cent (based on an internal BMW study). Both functions offer additional potential for fuel saving and are described in greater detail in the “BMW EfficientDynamics” chapter.

Premiere: Electric Power Steering included as standard.

All new BMW 7 Series models – with the exception of the xDrive variants – come equipped with Electronic Power Steering (EPS), which uses an electric motor to provide steering assistance. EPS only operates when steering assistance is actually required: no electrical power is consumed during straightline driving or steady-state cornering. Noticeable attributes of this system include not only its high efficiency and low weight, but also high

steering precision with good feedback, and comfort-enhancing self-centering and anti-roll characteristics. BMW 7 Series drivers also have the benefit of the steering system's standard Servotronic function, which has a more direct set-up overall and requires less steering effort.

Integral Active Steering provides maximum agility and comfort.

Also available as an option for BMW 7 Series models with rear-wheel drive is Integral Active Steering, which combines the Active Steering system for the front wheels familiar from other model series with a steering rear axle. The steering angle and power assistance are controlled at both the front and the rear with the help of electric motors. Here, the optimised system control unit processes information on wheel rotation speeds, steering wheel movement, yaw rate and lateral acceleration to ensure optimum steering behaviour for the driving situation at hand. In addition, Integral Active Steering works with a variable steering ratio on the front axle, which makes parking and manoeuvring easier for the driver and enables impressive precision at higher speeds. In COMFORT+ mode, in particular, a new software set-up gives the car noticeably damped responses. This translates into a perception of greater comfort among those on board when changing lanes and driving through corners. Integral Active Steering – which is unique in this configuration – also improves the car's manoeuvrability and agility in the interests of enhanced ride comfort.



4. **BMW EfficientDynamics: Increasing power and cutting-edge functions while lowering fuel consumption and emissions.**

The BMW 7 Series sets the standard to follow in a host of different ways, and it's as synonymous with silky smooth drive technology and luxurious comfort as it is with dynamic prowess. As further confirmation of the Sedan's superiority, a series of new and optimised drive variants are being brought out in 2012 which boast more than just stunning power and dynamism. A raft of measures have been implemented under the umbrella of the BMW EfficientDynamics development strategy to bring about a substantial reduction in the fuel consumption and emissions figures for the BMW 7 Series compared to the outgoing model. The BMW 750i and BMW 730d both deliver impressive evidence of this, with CO₂ output having been cut by 25 and 17 per cent respectively despite their superior power. What's more, the entry-level diesel model successfully holds on to its status as the cleanest-running engine of its breed in its class. Finally, the second generation of the BMW ActiveHybrid 7 also continues in the same vein by further raising the bar for energy efficiency.

Top-calibre engineering: supremely efficient BMW TwinPower Turbo petrol and diesel units allied to a cutting-edge eight-speed automatic with an excellent efficiency factor.

The petrol engines in the BMW 7 Series line-up are awash with state-of-the-art technologies, packaged together to create a superb piece of engineering. These include BMW TwinPower Turbo technology featuring twin-scroll turbocharging, High Precision Direct Petrol Injection, Double-Vanos variable camshaft timing and VALVETRONIC fully variable valve timing. The reduced-friction core engines, furthermore, come with a lightweight all-aluminium crankcase, which is a boon for both the efficiency and the agility of the BMW 7 Series.

The luxury sedan's BMW TwinPower Turbo diesel powerplants likewise showcase the very latest in BMW drive technology. With their latest-generation common rail direct injection, turbocharging with variable turbine geometry and all-aluminium design, the cutting-edge diesel units are blessed with high pulling power, refined running and unsurpassed efficiency.

The new range-topping diesel models – the BMW 750d xDrive and BMW 730d – go one better by offering advanced BMW BluePerformance technology, which enables them to easily undercut the EU6 emissions limits.

All engines in the BMW 7 Series are partnered by a highly sophisticated eight-speed automatic transmission, which stands out for its excellent efficiency, compact construction and innovative gearset design. Together with the minimised torque converter slip, high internal efficiency, low friction losses and intelligent transmission control, this creates substantial potential for fuel savings.

Auto Start-Stop, Brake Energy Regeneration, ECO PRO mode.

All BMW 7 Series Sedans – with the exception of the 12-cylinder version – come equipped with an Auto Start-Stop function, which can cut fuel consumption by up to six per cent. The standard specification also includes Brake Energy Regeneration, meaning that power for the vehicle electrical system is only generated during overrun and braking phases where possible. When the engine is under load, the alternator can often be disengaged. This not only means that electricity can largely be generated with zero impact on fuel consumption, it also endows the luxury sedan with even livelier acceleration. Finally, the Driving Experience Control switch gives drivers the option of selecting the extended ECO PRO mode which, by modifying the powertrain management and programming the heating and air conditioning, heated seats and exterior mirror heating to operate for optimum efficiency, fosters economical driving which – depending on the individual driving style – can reduce fuel consumption by as much as 20 per cent. The coasting mode, proactive driving assistant and ECO PRO Route functions can save a further 5 per cent.

New: coasting mode and advance preparation of hybrid drive system.

The extended ECO PRO functionality includes the new coasting mode, which is designed to decouple the combustion engine when it is overrunning at speeds between 50 and 160 km/h (31 – 100 mph). In coasting mode, the BMW 7 Series Sedan is subject to a far lower rate of deceleration as it freewheels along the road with no engine braking effect and minimal fuel consumption. In this way the kinetic energy built up by the vehicle can be

harnessed and – through forward-thinking driving aided by the proactive driving assistant – fuel savings of up to five per cent can be achieved. The coasting function is clearly visualised for the driver's benefit in the multifunctional instrument cluster and the central Control Display, and can also be deactivated if desired.

With the exception of the BMW 760i, all engine variants feature a proactive driving assistant that can be switched on via the ECO PRO mode. Drawing on the latest navigation data, it recommends advance adjustment of the car's speed with the aim of saving fuel. These tips for more efficient driving are shown in the multifunctional instrument cluster and in the central Control Display.

The BMW ActiveHybrid 7 is also able to switch to coasting mode. In this case, the combustion engine switches off completely when overrunning, allowing the Sedan to glide along with zero local emissions. The system of intelligent energy management furthermore allows proactive analysis of the driving situation ahead with the aim of priming the hybrid drive components for maximum efficiency. This is achieved by integrating the power electronics with the standard-fitted Professional navigation system. Based on the data gleaned in this way, such as route topography, speed limits or traffic levels, the vehicle can be prepared in advance and the available energy deployed as efficiently as possible. For instance, a longer downhill stretch can be used to recharge the hybrid battery so that the vehicle can be driven on purely electrical power through a residential area on the "home straight".

On-demand control of ancillary units saves energy.

Intelligent energy management in the BMW 7 Series is further enhanced by the ancillary units, which consume significantly less energy compared with conventional systems. Examples include the on-demand coolant pump, the electronically controlled oil pump and the new Electric Power Steering system, which offers potential savings of up to three per cent. The disengageable air conditioning compressor works on the same principle, minimising power drain by the system.

Intelligent lightweight design brings further reduction in fuel consumption and CO₂ emissions.

Intelligent lightweight design is integrated into all areas of BMW vehicle development work and into all components, from the body and engine to the suspension. Besides high and ultra-high-tensile steels and plastics, state-of-the-art composite materials are also employed. Finally, increased use of aluminium components in the engine and suspension systems as well as for the bodywork has also further reduced the weight of the relevant assemblies.

Aerodynamic streamlining.

Reducing aerodynamic drag also helps to lower fuel consumption. As the excellent drag coefficient figure of $c_d = 0.28$ would suggest, the aerodynamics of the BMW 7 Series have been finely honed in a state-of-the-art wind tunnel. The optimised aerodynamics also bring benefits for acoustic comfort and roadholding. In particular, the vehicle's underside plays an instrumental role in minimising lift forces, as the aerodynamically efficient design with streamlined panelling provides a high degree of sealing. Also, the front aprons are designed to create an "air curtain" effect which reduces turbulence around the front wheels – again reducing drag. The aerodynamically designed wheel arches and various air deflectors likewise have a fuel-saving effect.

5. **BMW ConnectedDrive: The new benchmark for infotainment, convenience and safety.**



BMW ConnectedDrive once again demonstrates its technical superiority while highlighting the innovative prowess of the BMW 7 Series with a range of new functions and a matchless combination of driver assistance systems and mobility services. The intelligent link-up between driver, car and the outside world maximises in-vehicle convenience, infotainment and safety, with an extensive portfolio of features including several new highlights that serve to further strengthen the BMW 7 Series' claim to top spot in the luxury segment:

- The latest generation of the Professional navigation system: more powerful than ever and boasting numerous new functions, the top-of-the-range navigation system is now even better than before. Full 3D menu displays, a dictation function for emails and text messages, sending of voice memos by email, interactive map functions (PIE menu) and the simultaneous coupling of two phones are just some of the stand-out features that distinguish the new-generation navigation system Professional.
- The optional multifunctional instrument cluster display with a range of instrumentation graphics makes for an entirely new display experience with novel ways of conveying driving-relevant information.
- Innovative driver assistance systems: safety is now enhanced by the new BMW Night Vision with Dynamic Light Spot and the anti-dazzle High-Beam Assistant. Also available are Driving Assistant Plus with ACC Stop & Go function and Active Protection with Attentiveness assistant, as well as the Speed Limit Info including No Passing Info display using road sign symbols in the instrument cluster or BMW Head-Up Display. Rounding off the highlights of the BMW 7 Series are the BMW Parking Assistant that facilitates parking parallel to the road and an innovative Comfort Access function allowing hands-free opening of the boot lid.

New-generation Professional navigation system: display and control in the third dimension.

The latest-generation Professional navigation system is compelling at first glance for its revised design and honed operating system. The tried-and-tested menu navigation has been consciously retained and augmented by further functions. The user interface has benefited from a complete graphic revision and now comprises 3D elements throughout, while the entire architecture of the individual menus is now presented in virtual, three-dimensional spaces. Thanks to its 1.3 GHz processor and dedicated 3D graphics card, using the system with its high-quality animations and dynamic transitions is an experience, supported by imagery boasting unprecedented levels of contrast and brilliance.

Added functions instantly to hand.

Along with the menu presentation, the navigation displays have likewise been revised and enhanced. The map displays and guidance information are now depicted with even greater brilliance and sharpness than before. Additional function bars, moreover, allow the map view to be customised quickly and simply without having to leave the map: the new function bars are superimposed as an extension of the original map bar and open up further options. This allows for Real Time Traffic Information (RTTI) or weather updates to be superimposed, POIs to be displayed, or the map to be rapidly switched from top view to perspective view. Standardisation of the control bars in the multimedia sphere facilitates operation of a wide range of audio sources.

The PIE menu: greater operating convenience at a click.

The interactive map view also comes with the option of selecting special functions directly from the map: using the iDrive Controller, the driver can mark a spot in the interactive map to open the PIE menu. This radial menu offers quick and easy access to a host of options. Depending on the information stored, the driver can have POIs in the area flagged up, read up on any stored details, start navigation to any of the points, alter the map view and have the current location or destination displayed. If further information on a POI – e.g. telephone number, online data or email address – is also stored, the driver can instantly access these and make a call, visit the homepage or compose an email.

Split-screen display with more detailed guidance views.

The split screen in the central information display likewise comes with added functions. To facilitate the driver's orientation while entering the destination by selecting the country, city and road, the chosen location is additionally displayed in the map view on the split screen. If required, the zoom function can be used to verify whether the destination shown in the relevant section of the map is the intended one.

For the navigation process itself, the familiar low-level guidance via arrows in the split screen has now been joined by a high-level guidance variant. This is automatically activated when the driver reaches a certain point ahead of the next navigation instruction. From a specified distance, which varies according to the category of road, the arrow display turns into a schematic, perspectival view of the surroundings, offering the driver even better orientation thanks to its enhanced depiction of the location and precise lane guiding. For an optimal picture, the perspective view changes in stages to a top view of the junction or intersection as the vehicle approaches it, while a dynamic vehicle indicator pinpoints the car's current position.

Then there is the 3D city model option that offers an impressive view to aid navigation. If the relevant representation of the city is stored in the car, a highly realistic depiction of the surrounding streets and houses makes it easier for the driver to find his way around.

The mobile office: dictation function, voice memos and voice control.

The latest-generation Professional navigation system features a full speech recognition function and optimised voice control system to complete the portfolio of office functions offered by BMW Connected Drive as BMW further extends its innovative lead on this front as well.

Thanks to the full speech recognition system, the dictation function gives drivers the opportunity, for the first time, to compose text messages simply by saying what they wish to write. Just a few seconds after dictation has been completed, the transcribed text appears in the display and can be read out if desired. As you would expect, drivers also have a number of simple-to-use editing tools available to them for putting the final touches to emails and SMS

messages easily and, most importantly, safely. The multilingual system can recognise six languages.

A further speech-based option to enhance office functionality is voice memos which can be sent directly by email if required. The great advantage to the motorist is the ability to swiftly store ideas or to-do items and send them to the relevant addressee(s) – without being distracted from what's happening on the road. The recorded memos can be stored on a USB stick for use outside the car.

Following the pattern of entering a destination with a single voice command, the optimised voice control feature of the Professional navigation system now allows all menu functions to be called up through simplified voice commands. If you want to make a phone call, for example, all you need to say is "Call Joe Bloggs." The system recognises that you wish to make a call and, after asking for verification of the number, makes the connection. A further advantage is the system's ability to recognise contact data irrespective of the format in which they are stored, and thus independently of first name and surname order. What's more, all submenu functions can now be activated or actions specified by speech input – from adjusting the radio and entering a destination to changing the route criteria. Voice control is becoming even simpler and easier to use.

Rounding off the new office functions is the further enhanced facility for simultaneously coupling two phones to the car at. The contact data of both phones are transferred to a shared list which is then available for making phone calls and sending emails. High-performance hardware means that calendar and contact information is displayed without delay, ensuring that both telephones are quickly ready for wide-ranging use in the vehicle.

The multifunctional instrument cluster display.

In place of the classic instrument cluster in which four circular analogue dials inform the driver of speed, rpm, tank level and oil temperature, the new BMW 7 Series now offers, for the first time, the option of a multifunctional instrument display. The basic layout with four circular dials is retained, while a virtually invisible 10.25-inch integrated screen provides an entirely novel and engaging display experience that deliberately evokes

modern electronic devices. It allows the driving experience modes COMFORT, SPORT and ECO PRO to be individually shown, for example. In addition to colour differentiation, the information content of the instruments is also varied according to the driving mode selected, thus presenting the driver with a display that is optimally adapted to the situation at hand.

BMW Night Vision: early pedestrian detection using Dynamic Light Spot.

At the heart of the Night Vision system is an infrared thermal imaging camera integrated into the BMW kidney grille. This provides a live video image which clearly highlights any objects giving off heat, despite being far beyond the range of the high beam. The system recognises pedestrians, cyclists and animals in plenty of time, even when they are outside the headlights' beam of light. The automatic pedestrian recognition control unit then analyses the image to determine whether the vehicle is on a collision course with any pedestrians or cyclists. If a person at the roadside is deemed to be potentially at risk, a high-resolution icon will flash up in the central Control Display or the BMW Head-Up Display as a warning.

In addition to the visual and audible warnings, Dynamic Light Spots are now used to pinpoint the detected objects, allowing the driver to immediately make out any road users in danger in the dark and react in time. The new high-performance LED headlights are fitted on the outsides of the front apron in place of the foglamps, and are computer-controlled to swivel and illuminate the target object precisely. The High-Beam Assistant also intervenes if required to prevent the Dynamic Light Spots from dazzling other traffic. When they are not activated, the Dynamic Light Spots are dimmed to work together with the daytime running lights or low beam.

Anti-dazzle High-Beam Assistant with intelligent control.

The BMW 7 Series is now available with the option of full-LED headlights which provide a further safety boost when driving at night. The bright white light they emit illuminates the road ahead with an exceptional intensity. Together with the High-Beam Assistant, the Adaptive Headlights with cornering lights as well as variable headlight distribution, they continue to represent the ultimate in lighting technology. The anti-dazzle High-Beam Assistant in conjunction with full-LED headlights ensures that the driver can

enjoy optimal visibility at all times without having to switch manually between high and low beam. The system uses a camera integrated into the rear-view mirror to identify vehicles travelling up to 400 metres (approx. ¼ mile) in front. Oncoming traffic is picked up when it is still 1,000 metres (just under ¾ mile) away. With the High-Beam Assistant activated, the headlights are partially masked as and when required in order to eliminate the danger of dazzling vehicles as they draw closer. If necessary, however, the High-Beam Assistant can also adapt to the traffic situation by switching to low beam on one or both sides.

Driving Assistant Plus brakes to a halt if required.

The Active Cruise Control system Driving Assistant Plus builds on the familiar cruise control system with Stop & Go function (ACC with Stop&Go). For an enhanced interpretation of the traffic situation ahead, the full-range radar sensors are now supplemented by a front-mounted camera on the rear-view mirror. When driving in heavy-flowing traffic or traffic jams, the driver is able to safely move along with the flow and let the vehicle's automatic systems handle the tasks of stopping and pulling away again as well as approaching junctions where there are already vehicles waiting ahead. Combining radar and video data in this way improves detection of other vehicles and cuts the system's reaction time. If a vehicle ahead brakes very sharply in free-flowing traffic, requiring the driver to take action, he is prompted to do so by a two-stage warning. Simultaneously to this, the activation thresholds of the Brake Assist system are lowered, activating the brake priming function in the process. If the driver fails to react to the acute warning, Driving Assistant Plus will intervene to decelerate the vehicle itself, even braking it to a stop depending on the situation.

With Driving Assistant Plus, the upper limit of the operating range for the Active Cruise Control with automatic distance control has now been increased by 30 km/h (19 mph), meaning it is available at speeds between 30 km/h and 210 km/h (19 mph and 130 mph). The intelligent cruise control function continues to be active at speeds above 210 km/h (130 mph).

Active Protection monitors the driver's behaviour at the wheel.

The BMW 7 Series now boasts an even more extensive Active Protection safety package thanks to the addition of the Attentiveness assistant. The system's electronics analyse driving behaviour on the basis of various signals such as steering angle, road speed and other engine parameters. If the system increasingly detects telltale signs of fatigue starting to build up, the central Control Display encourages the driver to take a break by displaying a coffee cup symbol.

At the start of every journey when the driver and front passenger fasten their seat belts, the Active Protection motorised belt retractors reduce any belt slack. If the car enters a critical pre-crash scenario, the driver and front passenger belts are pulled tight, and the side windows and sunroof are closed. Active Protection deduces that a collision is likely based on data from the front-mounted camera or radar, an emergency braking manoeuvre initiated by the driver, or the onset of heavy understeer or oversteer. If a crash is unavoidable, the system will automatically brake the car afterwards without any intervention required from the driver. Following the initial impact, the car is slowed to a standstill with a maximum deceleration rate of 5 m/s² and its brakes then locked for a further 1.5 seconds. This reduces the likelihood of – or even prevents – a secondary collision.

Speed Limit Info with No Passing Info display using road sign symbols.

In combination with the Professional or Business navigation system, Speed Limit Info keeps the driver notified of the detected speed limit for the current stretch of road. The front-mounted camera integrated into the rear-view mirror continuously monitors road signs, including variable-message overhead signs on motorways and dual carriageways. This information is checked against the navigation system's database of speed limits. The camera is also able to take into account additional signs or temporary restrictions, for example at roadworks. As with speed limits, a No Passing Info display can now also be flashed up in the instrument cluster or BMW Head-Up Display in the form of a road sign until the restriction has been lifted. Furthermore, drivers now have the benefit of a Speed Limit Device, which caps the car's maximum speed at between 30 and 230 km/h (19 and 143 mph), as set by the driver.

BMW Parking Assistant takes charge of manoeuvring into parking spaces.

BMW Parking Assistant uses ultrasonic sensors integrated into the sides of the vehicle to help search for suitable parking spots. The system then helps the driver to manoeuvre safely and comfortably into parking spaces positioned parallel to the direction of travel. With the Parking Assistant activated and the car travelling at a slow speed of no more than 35 km/h (22 mph), a notification appears in the Control Display to alert the driver to suitable spaces that are at least 1.20 metres (around 4 ft.) longer than the BMW 7 Series as he passes them. During the parking process, all the driver has to do is change gear, operate the accelerator and brake pedal, and keep an eye on the area around the car. The Parking Assistant then proceeds to take care of all the steering movements required to execute a precise reverse parking manoeuvre. A new bird's-eye view of the vehicle in the Control Display works in unison with the Park Distance Control to clearly visualise the distance to other objects and make it easier for the driver to monitor the parking process.

Innovative boot access makes life a little easier.

The BMW 7 Series now offers even greater ease of use with a hands-free boot lid opening function. Standing behind the car, a quick movement of the foot under the rear bumper is enough to prompt the boot to open without any use of the hands. The boot lid then automatically unlocks and swings open by spring force. For detection purposes, the vehicle is fitted with sensors placed at different heights in the rear bumper trim. The sensors can identify the foot "command" by monitoring the area of the leg between the shin and the tip of the foot. They then send a signal containing special algorithms to the onboard computer. Access is only authorised, however, if the system simultaneously identifies the Comfort Access control unit (the key), which the person must be carrying with him. The boot lid is then unlocked and raised automatically, without hand contact. Key authorisation provides the safeguard that ensures correct operation at all times.

Yet more unrivalled driver assistance systems and mobility services.

Apart from the highlights detailed above, BMW ConnectedDrive in the BMW 7 Series encompasses a host of sophisticated features and technologies designed to delight anyone seeking supreme convenience, infotainment and safety.

These include the existing full-colour BMW Head-Up Display, BMW Assist Emergency Call with automatic vehicle location, the rear view camera and Surround View, Real Time Traffic Information (RTTI), as well as the full range of in-journey entertainment offered by BMW Online, all the office functions and BMW Apps.



6. **Body and safety: Optimised protection and intelligent lightweight design as a founding principle.**

The BMW 7 Series is built around an extremely rigid passenger cell that strikes a perfect balance between weight reduction on the one hand and solid construction on the other, enabling it to satisfy the most stringent safety standards. Large supporting structures with a high load-bearing capacity and the intelligent use of high and ultra-high-tensile multi-phase steels coupled with a large number of aluminium components maximise the strength of the safety passenger cell, while keeping weight low. The combination of aluminium roof and steel body is unique in this segment. Quite apart from the weight saving of some seven kilograms over a steel roof, the aluminium construction has the effect of lowering the vehicle's centre of gravity resulting in even sharper handling. The body's bonnet, front side panels, front spring struts and doors are all likewise made of aluminium on the BMW 7 Series. The doors alone shave a whole 22 kilograms or so off the weight. By incorporating a high-tech mix of materials, body strength has been increased by around 60 per cent compared to its predecessor (market debut 11/2008), while torsional resistance is now some 20 per cent higher too. Not only do these advances boost passive safety, they form the ideal basis for majestic handling qualities.

Individual protection at every seat.

The exemplary crash responses of the body, including precisely defined deformation zones, provide the best possible basis for the optimum design and set-up of the car's restraint systems. The BMW 7 Series is equipped as standard with front and side airbags for the driver and front passenger, plus head airbags for both rows of seats. Depending on the nature of the crash, integrated safety electronics ensure that only those airbags that are able to provide effective protection are actually deployed. Airbags that are not required therefore continue to be ready for action in the event of a possible secondary collision. All seats are fitted with three-point inertia-reel seat belts, and the driver and front passenger also have the benefit of belt latch tensioners.

Active head restraints lower the risk of injury.

To guard against whiplash injuries following a collision from the rear, the front seats are fitted with crash-activated head restraints as standard that are controlled by the safety electronics. In the event of such a collision, the system responds by causing the front part of the head restraint to shoot forwards by up to 60 millimetres and upwards by a maximum of 40 millimetres. The effect of this is to narrow the distance to the occupant's head before it starts to be thrown back by the force of the impact. Thanks to the active head restraints, there is therefore less risk of sustaining cervical spine injuries or hyperextension.

To minimise the risk of a collision occurring in the first place, an array of electronic aids can be found in the BMW 7 Series that make an active contribution to driving safety. The functions of the main assistance systems have already been described in detail in the chapter on BMW ConnectedDrive, but the most noteworthy accident prevention features include: the new full-LED headlights with anti-dazzle High-Beam Assistant that are making their debut in the BMW 7 Series, Adaptive Headlights including cornering lights and variable light distribution, Active Protection with Attentiveness assistant featuring an eCall function and automatic vehicle location, plus, to limit the risk of rear-end collisions, adaptive brake lights. If the driver brakes very heavily and the ABS system has to take corrective action, the LED brake lights flash conspicuously as a warning to drivers behind that they too should brake as hard as possible. After the vehicle has been braked to a particularly sharp stop, the hazard warning lights will additionally switch on automatically.

7. **BMW Individual: Exclusivity on demand.**



The BMW Individual equipment range is designed for customers with an eye for made-to-measure solutions and an expectation of the highest standards when it comes to exclusivity, design and function. The selection of available paintwork, light-alloy wheels and interior options allows drivers of the new BMW 7 Series to express their sense of quality and style in even greater depth. Indeed, with BMW Individual, owners can transform an already exceptional car into an aesthetically captivating one-off.

The materials, workmanship and design of all the products in the BMW Individual range meet the brand's exacting standards and set a new benchmark in exclusivity in the premium segment. Complex painting processes produce unique effects, while quality workmanship brings out the natural attributes of the exquisite leather and wood. All the elements of the BMW Individual line-up are available separately as options. Added to which, the new BMW 7 Series Sedan can also be ordered with a BMW Individual composition of features boasting perfectly coordinated colours and materials.

BMW Individual paint finishes.

Special colour pigments create intriguing iridescent effects, an extraordinary brilliance and an incomparable feeling of depth. As well as the familiar selection of exterior paint finishes, the BMW 7 Series is also available with the newly developed special BMW Individual shades Peridot Green metallic and Pure metal Silver. Peridot Green metallic can be identified by its eye-catching sparkle – courtesy of the Xirallic® pigments in the paint – and its visually powerful depth and intensity. A special-effect pigment and the addition of ultra-thin aluminium flakes give the Pure metal Silver paint finish a uniform surface and deep lustre, making the 7 Series body look almost as if it had been coated in chrome rather than paint.

BMW Individual full leather trim.

The elegant fine-grain Merino full leather trim stands out with its natural, open-pored structure and extremely pleasant feel. Two new shades have now been added to the palette: Opal White and Caramel. Distinctive

stitching design and seam lines for the seats, instrument panel and door panel trim add attractive touches to complement the exclusive materials and colours. The new Caramel leather trim colour can be combined with a matching Alcantara Caramel roof liner and Caramel floor covering and mats. And finally, the BMW Individual interior trim elements can be ordered in a choice of three variants, including the new Ash Grain White.

The BMW Individual range also includes an integrated cool box with space for two 0.7-litre bottles and two 0.33-litre cans of drink, while adjustable reading lights for the rear seats, wood inlays for the leather steering wheel and door sill strips with lettering set the seal on the exclusive equipment range. The BMW Individual composition put together for the new BMW 7 Series consists of colour-coordinated variants of the full leather trim, Alcantara roof liner, interior trim strips, wood inlay for the leather steering wheel and illuminated door sill strips. A choice of 19 or 20-inch BMW Individual light-alloy wheels in V-spoke design add further scope for individualisation.

The BMW Individual workshop can even fulfil requests from individual customers for complete one-off cars. As a high-end provider specialising in tailor-made cars with special paint finishes, exquisite leathers and fine woods, it was the first of its kind when it opened for business in 1991. The BMW Individual success story has since been defined by technical ambition and the desire to achieve automotive perfection. A team of specialists blend the flexible working methods of a small-scale workshop with the resources and expertise of a large global company. A Karl Lagerfeld creation got the ball rolling, to be followed by two further variants from the same designer. One-off examples with strong aesthetic credentials were also created for the artist David Hockney and Dr Luigi Macaluso, President of Swiss watchmaker Girard-Perregaux.

8. **Production: State-of-the-art manufacturing and precision craftsmanship.**



The BMW 7 Series has been built at Dingolfing since the day it was launched. Indeed, BMW's largest production plant worldwide has been part of the global BMW production network, which now includes 29 factories in 14 countries, since 1967. An impressive collection of awards bears witness to the standards of excellence achieved by the Bavarian plant.

Innovative manufacturing technologies and intelligent lightweight construction.

Dingolfing is also home to the BMW Group's Aluminium Competence Centre, and the BMW 7 Series is just one of the models to have benefited from the research findings and innovative developments to which the facility can lay claim. This is one of the factors that have prompted BMW to channel further investment into innovative manufacturing technologies at the Dingolfing plant. Special process engineering has been developed exclusively for the BMW 7 Series with the aim of combining an aluminium roof with a steel body, for example. The roof structure is not riveted to the body, but fixed to it using a new, high-tech adhesive in order to ensure optimum protection against corrosion. This cutting-edge joining technology using a patented generation of adhesive enables both an incredibly strong bond and an extremely high level of flexibility under heat-induced expansion. The BMW 7 Series benefits from a weight saving of around seven kilograms in this area alone. BMW also uses aluminium for the car's doors and has developed optimum manufacturing solutions here, too. The door bodies consist of just two components, which are laser-welded together. As well as the roof and doors, the bonnet, front side panels and front spring struts are also made from aluminium. Various joining technologies – such as bonding, riveting and MIG welding – are used in the construction of the front-end structure according to need and the loads each component will be subjected to.

Module-based strategy promotes customer-oriented production.

The extremely well-oiled Customer-Oriented Sales and Production Process (KOV) ensures that every vehicle is produced on time and, most importantly, to the required customer specifications. One of the key elements behind the success of the KOV is the maximisation of production flexibility; a highly

developed logistics systems and efficient processes both play a central role here. Indeed, the delivery of pre-assembled modules in completed form provides a particularly valuable helping hand to the processes at the production line. The finished front-end construction, for example, is delivered to the line just-in-sequence as an individual module. This means that fewer process stages are required when it gets there. Plus, the bodysells can be produced in any order and mixture, as per the instructions from the production management system. Overall, then, this approach allows a highly flexible and exceptionally streamlined production process since little storage capacity is required and the plant can respond quickly to customer requests and changes in specification.

History-laden plant is a paragon of efficiency and quality.

The largest of all BMW plants, with a workforce of over 18,500, Dingolfing produces some 1,500 cars every working day. The tradition-steeped plant achieves exemplary levels of quality and efficiency. The plant's chassis and powertrain component unit has developed into a chassis and axle drive competence centre within the BMW Group's worldwide production network. The components produced here are supplied to every BMW car plant in Germany and abroad.

9. The history of the BMW 7 Series: An elegant and dynamic rise to the pinnacle of the luxury class.



No other luxury sedan can match the way the BMW 7 Series combines consummate style and cutting-edge design, comfort and luxury with supreme efficiency, dynamic handling and driving pleasure. The first BMW 7 Series hit the roads in 1977, but BMW's history in the luxury car class stretches back further still. Indeed, over 70 years have now passed since the brand first ventured into this exclusive territory. In 1938, BMW presented a prototype of the BMW 335 at the London Motor Show, and production duly got under way a year later. The prestigious sedan marked the brand's arrival in the luxury class, with other BMW 7 Series ancestors such as the "Baroque Angel" of the 1950s and the "Große Baureihe" (Large Series) models of the 1960s and 70s destined to follow in its tyre tracks. The most important ingredient of all luxury-class BMWs down the years has been their groundbreaking innovations, developed with the aim of blending dynamic flair and ride comfort into a driving experience of extraordinary depth.

1977: the first BMW 7 Series takes over as the sportiest sedan in the luxury class.

The first generation of the BMW 7 Series wasted no time in laying down an impressive marker as far as poise, assurance and dynamic capability were concerned. By now a signature feature of the brand, the front end – with its twin circular headlights, BMW kidney grille and forward-surging bonnet – was given a makeover. The BMW 7 Series was every inch the sporty luxury sedan from the word go, with its swooping body shape, driver-focused cockpit, powerful engines and advanced chassis technology. And similar heights were scaled when it came to safety and comfort. Among the innovations on board were the world's first electronic speedometer, speed-sensitive power steering, electrically adjustable exterior mirrors and Check Control – an electronic data unit allowing the driver to keep an eye on engine oil, brake fluid, coolant and windscreen wash levels, the status of the brake lights and rear lights, and the thickness of the brake pads. These were joined in 1980 by the world's first onboard computer, complete with exterior temperature gauge.

In those early days, customers could choose between the BMW 728 (170 hp), BMW 730 (184 hp) and BMW 733i (197 hp). The car went on sale in early

summer 1977, and surging demand soon had the Dingolfing plant struggling to keep up. By the end of the year, just under 20,000 units of the BMW 7 Series had already been made. This figure was to rise to 35,745 in the first full year of production and remain above the 35,000 mark over the two subsequent years.

Further additions to the engine line-up kept sales at a healthy level. In 1979 BMW replaced the carburettor engines in the range with economical petrol injection units. The BMW 728i succeeded the BMW 728 and BMW 730, and the BMW 733i was usurped by the BMW 732i, whose digital engine electronics were unique in the industry. The 3.5-litre BMW 735i with 218 hp was also new to a range topped by the BMW 745i. Presented in 1980, the flagship model was powered by a 252 hp six-cylinder engine with a turbocharger and intercooler. By the time production came to a halt in June 1986, a total of 285,029 units of the original BMW 7 Series had rolled off the assembly line.

1986: second-generation BMW 7 Series makes an impressive entrance, powered by Germany's first post-war 12-cylinder engine.

Harmonious lines, sporty handling and innovative chassis control systems ensured the new BMW 7 Series would enjoy a glittering premiere in 1986. The broad BMW kidney grille gave the front end a powerful presence, while at the rear L-shaped tail lights made their debut as a new BMW hallmark. For the first time, a long-wheelbase version of the BMW 7 Series was now also available. The most significant new technical features included the ASC slip control system with electronic accelerator and drag torque control, while six-cylinder in-line engines in the BMW 730i and BMW 735i – developing 135 kW/184 hp and 155 kW/211 hp respectively – ensured serene progress.

The BMW 750i presented in 1987 was Germany's first new 12-cylinder sedan to hit the roads since the end of the 1930s. The aluminium 5-litre V12 engine came with separate injection, ignition and catalytic converter systems for its two cylinder banks. And despite developing an impressive 220 kW/300 hp and peak torque of 450 Newton metres (332 lb-ft), it needed only standard petrol in the tank. The introduction in 1992 of a further two engine variants – the V8 powering the new BMW 730i and the larger-displacement unit under the bonnet of the BMW 740i – closed the gap

between the six-cylinder versions and the V12 flagship. Added to which, Adaptive Transmission Management (ATM) celebrated its premiere in the 12-cylinder model. The second-generation 7 Series' reign at the top of the BMW portfolio lasted eight years, with around 311,000 units of the car delivered to customers around the world over that time.

1994: pioneering innovations and a first ever diesel engine headline the third-generation 7 Series.

With its virtually unchanged exterior dimensions, only mild revisions to its design and enhanced comfort and dynamics, the third generation of the BMW 7 Series carried on from the success of its predecessor. The eight-cylinder BMW 730i and BMW 740i, and 12-cylinder BMW 750i, were offered at launch, and all were also available in long-wheelbase form.

The BMW engineers raised the bar another notch with the V12, increasing its displacement to 5.4 litres and output to 240 kW/326 hp. At the same time, the average fuel consumption of the BMW 750i was cut by around 11 per cent. The third-generation BMW 7 Series also led the way in terms of active safety thanks to the introduction of new stability systems. In addition to the Anti-lock Braking System, the eight-cylinder models were available as an option with Automatic Stability Control (ASC), and the BMW 750i came as standard with Dynamic Stability Control (DSC). Further valuable impetus was provided by comfort-enhancing features, including an integrated navigation system whose colour monitor also served as a display for other functions. In order to boost safety levels further still, BMW fitted the luxury sedan with up to eight airbags and Tyre Pressure Control (TPC).

In 1995 a six-cylinder in-line engine was added to the line-up, giving the BMW 728i output of 142 kW/193 hp. The following year BMW unveiled a new generation of eight-cylinder engines with larger displacement and increased torque. The BMW 735i and BMW 740i also made headlines with their lower fuel consumption. All models specified with the five-speed automatic transmission also came with the Steptronic function. The BMW 725tds, likewise introduced in 1996, offered a particularly frugal alternative. Its 2.5-litre six-cylinder diesel powerplant developed 105 kW/143 hp and impressed in equal measure with its strong fuel economy and exceptional smoothness. A second six-cylinder unit followed in 1998 in the shape of the 3-litre BMW 730d, complete with common rail injection and 135 kW/184 hp.

1999 saw the arrival of the most powerful member of the 7 Series family yet – the BMW 740d. The world's first sedan to combine a V8 diesel engine and common rail injection developed 180 kW/245 hp and achieved a top speed of 242 km/h (150 mph). By the time it was replaced by the new model, approximately 327,600 units of the third-generation BMW 7 Series had been sold.

2001: the fourth generation makes its mark as a bestseller.

The fourth-generation BMW 7 Series luxury sedan was a new design from the ground up and represented an avant-garde reinterpretation of the car's traditional characteristics. The new model saw BMW set new standards in a variety of areas and delivered a shot in the arm to the wider world of automotive design. The innovative new BMW iDrive operating concept and the various elements of BMW's new, contemporary design language led the charge.

The all-new eight-cylinder engines with seamlessly variable valve timing (Double-Vanos) and variable valve lift control (VALVETRONIC) entered new territory in terms of performance and economy. The BMW 735i and BMW 745i were the first models to be launched, with power transfer duties handed to the world's first standard-fitted six-speed automatic transmission. And when it came to providing customers with top-class dynamics and ride comfort, the BMW 7 Series had the answer with its Dynamic Drive roll stabilisation system complementing the largely aluminium chassis and Electronic Damper Control (EDC) technology. The BMW 760i was launched in January 2003 as the range-topping 7 Series model. Under its bonnet lurked a 6-litre 12-cylinder engine developing 327 kW/445 hp and peak torque of 600 Newton metres (443 lb-ft).

A raft of international awards and sales records in the world's major car markets highlighted the worldwide success of the fourth-generation BMW 7 Series throughout its model cycle. In 2004 the flagship model of the BMW line-up occupied top spot in the global sales charts for the luxury class – and sales rose again the following year. This meant that the BMW 7 Series was once again the best-selling car in its segment, and not long afterwards the fourth-generation model became the most successful BMW 7 Series ever. Just four-and-a-half years after its market launch, it had already

exceeded the sales figures recorded by its predecessor. In autumn 2005 the BMW 730d was presented with higher output, and the appeal of the 7 Series was further enhanced by a performance hike for the BMW 745d as well. The same year saw the introduction of BMW Night Vision technology and Europe's first high-beam assistant system.

In autumn 2006, BMW became the world's first carmaker to unveil a hydrogen-powered luxury sedan for everyday use in the shape of the BMW 760Li. The car has since clocked up more than two million kilometres (over 1.2 million miles) in Europe, the USA and other regions of the world, providing evidence that this drive concept can handle the demands of day-to-day use and represents a realistic option for the future.

2008: the fifth generation is the most successful BMW 7 Series of all time.

The fifth generation of the BMW 7 Series stands out with its all-new interpretation of style, luxury and ride comfort. Three engine variants were available at launch – the BMW 750i, BMW 740i and BMW 730d – together with a long-wheelbase version offering exceptional levels of rear space. An all-new chassis, the world premiere of the Integral Active Steering system and a suite of exclusive driver assistance systems formed the basis for an extraordinary driving experience. And innovative infotainment functions, such as unrestricted in-car internet usage, only added to the car's appeal.

Soon to join the fray were the range-topping BMW 760i and BMW 760Li models. The newly developed 12-cylinder engine with 6-litre displacement, TwinPower Turbo technology and direct petrol injection channelled output of 400 kW/544 hp and maximum torque of 750 Nm (553 lb-ft) through a likewise new eight-speed automatic transmission. A second diesel variant – the BMW 740d – was presented in 2009, and the BMW xDrive intelligent all-wheel-drive system also announced its arrival in the prestigious luxury segment. Last but not least came the premiere of the BMW ActiveHybrid 7, whose advanced drive system technology brought together an eight-cylinder combustion engine and an electric motor.

The worldwide success of the BMW 7 Series continues uninterrupted today. Indeed, in March 2012 BMW recorded an increase in worldwide sales of

20 per cent year-on-year, and 68,774 units of the car were sold in 2011 alone. All of which gives the fifth-generation BMW 7 Series impressive evidence to back up its leadership claim – put forward with similar conviction by its predecessors – in the areas of drive system technology, ride comfort and equipment.

10. Specifications.

BMW 740i.

BMW 750i.

BMW 760i.



		BMW 740i	BMW 750i	BMW 760i
Body				
No of doors/seats		4 / 5	4 / 5	4 / 5
Length/width/height (unladen)	mm	5079 / 1902 / 1471	5079 / 1902 / 1471	5079 / 1902 / 1471
Wheelbase	mm	3070	3070	3070
Track, front/rear	mm	1611 / 1650	1611 / 1650	1611 / 1650
Ground clearance	mm	152	152	152
Turning circle	m	12.2	12.2	12.2
Tank capacity	app ltr	80	80	80
Cooling system incl heater	ltr	10.2	12.6	14.7
Engine oil ¹⁾	ltr	6.5	9.0	10.5
Weight, unladen, to DIN/EU	kg	1825 (1900)	1940 (2015)	2105 (2180)
Max load to DIN	kg	650	640	590
Max permissible	kg	2515	2600	2695
Max axle load, front/rear	kg	1180 / 1415	1250 / 1425	1340 / 1435
Max trailer load (12%), braked/unbraked	kg	2100 / 750	2100 / 750	2100 / 750
Max roofload/max towbardownl	kg	100 / 100	100 / 100	100 / 100
Luggage comp capacity	ltr	500	500	500
Air drag	Cd x A	0.28 x 2.42	0.28 x 2.42	0.30 x 2.42
Power Unit				
Config/No of cyls/valves		In-line six / 4	V 8 / 4	V 12 / 4
Engine technology		BMW TwinPower Turbo, second-generation direct injection (High Precision Injection)	BMW TwinPower Turbo, second-generation direct injection (High Precision Injection)	BMW TwinPower Turbo, second-generation direct injection (High Precision Injection)
Capacity, effective	cc	2979	4395	5972
Stroke / bore	mm	89.6 / 84.0	88.3 / 89.0	80.0 / 89.0
Compression ratio	:1	10.2	10.0	10.0
Fuel		min RON 91	min RON 91	min RON 91
Max output	kW/hp	235 / 320	330 / 449	400 / 544
at	rpm	5800	5500	5250
Max torque	Nm	450	650	750
at	rpm	1300–4500	2000–4500	1500–5000
Electrical System				
Battery/location	Ah/–	90 / luggage comp	90 luggage comp	90 / luggage comp
Alternator	AW	210 / 2940	210 / 2940	220 / 3080
Driving Dynamics and Safety				
Suspension, front		Double-track control arm axle with separate lower track arm level in aluminium construction, small steering roll radius, anti-dive		
Suspension, rear		Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment		
Brakes, front		Single-piston swing-calliper disc brakes / vented		
Brakes, rear		Single-piston fixed-calliper disc brakes / vented		
Driving stability systems		Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake Control, DBC Dynamic Brake Control, Dry Braking, Fading Compensation, Start-Off Assistant, Dynamic Damping Control, optional: Dynamic Drive anti-roll stability management (standard in the BMW 760i)		
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyre Defect Indicator		
Steering		Electronic Power Steering (EPS) with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump		
Steering transmission, overall	:1	17.1	17.1	17.1
Tyres, front/rear		245/50 R18 100Y RSC	245/50 R18 100Y RSC	245/50 R18 100Y RSC
Rims, front/rear		8J x 18 light-alloy	8J x 18 light-alloy	8J x 18 light-alloy

		BMW 740i	BMW 750i	BMW 760i
BMW ConnectedDrive				
Convenience		Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate		
Infotainment		Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks		
Safety		Optional: Adaptive Headlights with Cornering Lights, LED High-Beam Assistant, Park Distance Control, Side View, Top View, rear-view camera (standard in the BMW 760i), BMW Parking Assistant, BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call		
Transmission				
Type of transmission		Eight-speed automatic transmission with Steptronic		
Gear ratios	I	:1	4.714	4.714
	II	:1	3.143	3.143
	III	:1	2.208	2.208
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	Reverse	:1	3.295	3.317
Final drive		:1	3.077	2.813
Performance				
Power-to-weight ratio		kg/kW	7.8	5.9
Output per litre		kW/hp	78.9	75.1
Acceleration 0–100 km/h		sec	5.7	4.8
Standing start km		sec	25.2	22.9
Top speed		km/h	250	250
BMW EfficientDynamics				
BMW EfficientDynamics standard features		Auto Start-Stop function, ECO PRO mode (not in the 760i/Li), Brake Energy Regeneration, coasting mode, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced rolling resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control (standard in the BMW 760i)		
Fuel Consump EU Cycle				
Urban		ltr/100 km	10.6	11.9
Extra-urban		ltr/100 km	6.3	6.6
Combined		ltr/100 km	7.9	8.6
CO ₂		g/km	184	199
Emission rating			EU5	EU5
Insurance group				
KH/VVK/TK		n.b.		

Specifications applicable to ACEA markets/homologation data applicable in part only to Germany (weight).

1) Oil change

BMW 750i xDrive.

BMW 750Li xDrive.

		BMW 750i xDrive	BMW 750Li xDrive
Body			
No of doors/seats		4 / 5	4 / 5
Length/width/height (unladen)	mm	5079 / 1902 / 1471	5219 / 1902 / 1481
Wheelbase	mm	3070	3210
Track, front/rear	mm	1611 / 1650	1611 / 1650
Ground clearance	mm	152	152
Turning circle	m	12.5	13.0
Tank capacity	app ltr	80	80
Cooling system incl heater	ltr	12.6	12.6
Engine oil ¹⁾	ltr	9.0	9.0
Weight, unladen, to DIN/EU	kg	2000 / 2075	2035 / 2110
Max load to DIN	kg	640	640
Max permissible	kg	2660	2695
Max axle load, front/rear	kg	1300 / 1430	1310 / 1450
Max trailer load (12%), braked/unbraked	kg	2300 / 750	2300 / 750
Max roofload/max towbardownl	kg	100 / 100	100 / 100
Luggage comp capacity	ltr	500	500
Air drag	Cd x A	0.30 x 2.42	0.30 x 2.42
Power Unit			
Config/No of cyls/valves		V 8 / 4	V 8 / 4
Engine technology		BMW TwinPower Turbo, second-generation direct fuel injection (High Precision Injection)	BMW TwinPower Turbo, second-generation direct fuel injection (High Precision Injection)
Capacity, effective	cc	4395	4395
Stroke / bore	mm	88.3 / 89.0	88.3 / 89.0
Compression ratio	:1	10.0	10.0
Fuel		min RON 91	min RON 91
Max output	kW/hp	330 / 449	330 / 450
at	rpm	5500	5500
Max torque	Nm	650	650
at	rpm	2000–4500	2000–4500
Electrical System			
Battery/location	Ah/–	90 / luggage comp	105 / luggage comp
Alternator	AW	210 / 2940	210 / 2940
Driving Dynamics and Safety			
Suspension, front		Double track control arm axle with separate lower track arm level in aluminium construction, small steering roll radius, anti-dive	
Suspension, rear		Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment	
Brakes, front		Single-piston swing-calliper disc brakes / vented	
Brakes, rear		Single-piston swing-calliper disc brakes / vented	
Driving stability systems		Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake Control, DBC Dynamic Brake Control, Dry Braking, Fading Compensation, Start-Off Assistant, Dynamic Damping Control, Dynamic Drive anti-roll stability management, networked with xDrive all-wheel-drive system in Integrated Chassis Management	
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyre Defect Indicator	
Steering		Rack-and-pinion Power Steering with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump	
Steering transmission, overall	:1	19.1	19.1
Tyres, front/rear		245/50 R18 100Y RSC	245/50 R18 100Y RSC
Rims, front/rear		8J x 18 light-alloy	8J x 18 light-alloy

BMW 750i xDrive			BMW 750Li xDrive	
BMW ConnectedDrive				
Convenience		Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate		
Infotainment		Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks		
Safety		Optional: Adaptive Headlights with Cornering Lights, LED High-Beam Assistant, Park Distance Control, Side View, Top View, rear-view camera (standard in the BMW 760i), BMW Parking Assistant, BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call		
Transmission				
Type of transmission		Eight-speed automatic transmission with Steptronic function		
Gear ratios	I	:1	4.714	4.714
	II	:1	3.143	3.143
	III	:1	2.208	2.208
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	Reverse	:1	3.317	3.317
Final drive		:1	2.813	2.813
Performance				
Power-to-weight ratio	kg/kW		6.1	6.2
Output per litre	kW/hp		75.1	75.1
Acceleration 0–100 km/h	sec		4.6	4.6
Standing start km	sec		22.9	22.9
Top speed	km/h		250	250
BMW EfficientDynamics				
BMW EfficientDynamics standard features		Auto Start-Stop function, ECO PRO mode, Brake Energy Regeneration, coasting mode, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced rolling resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control		
Fuel Consump EU Cycle				
Urban	ltr/100 km		13.0	13.2
Extra-urban	ltr/100 km		7.2	7.2
Combined	ltr/100 km		9.3	9.4
CO ₂	g/km		217	219
Emission rating			EU5	EU5
Insurance group				
KH / VK / TK		n.b.		

Specifications applicable to ACEA markets / homologation data applicable in part only to Germany (weight)

1) Oil change

BMW 740Li.

BMW 750Li.

BMW 760Li.

		BMW 740Li	BMW 750Li	BMW 760Li
Body				
No of doors/seats		4/5	4/5	4 / 5
Length/width/height (unladen)	mm	5219 / 1902 / 1481	5219 / 1902 / 1481	5219 / 1902 / 1481
Wheelbase	mm	3210	3210	3210
Track, front/rear	mm	1611 / 1650	1611 / 1650	1611 / 1650
Ground clearance	mm	152	152	152
Turning circle	m	12.7	12.7	12.7
Tank capacity	app ltr	80	80	80
Cooling system incl heater	ltr	10.2	12.6	14.7
Engine oil ¹⁾	ltr	6.5	9.0	10.5
Weight, unladen, to DINEU	kg	1845 / 1920	1960 / 2035	2175 / 2250
Max load to DIN	kg	650	640	575
Max permissible	kg	2525	2610	2765
Max axle load, front/rear	kg	1190 / 1425	1260 / 1430	1350 / 1480
Max trailer load (12%), braked/unbraked	kg	2100 / 750	2100 / 750	2100 / 750
Max roofload/max towbar download	kg	100 / 100	100 / 100	100 / 100
Luggage comp capacity	ltr	500	500	500
Air drag	Cd x A	0.28 x 2.42	0.28 x 2.42	0.30 x 2.42
Power Unit				
Config/No of cyls/valves		In line-six / 4	V8/4	V12 / 4
Engine technology		BMW TwinPower Turbo, second-generation direct injection (High Precision Injection)	BMW TwinPower Turbo, second-generation direct injection (High Precision Injection)	BMW TwinPower Turbo, second-generation direct injection (High Precision Injection)
Capacity, effective	cc	2979	4395	5972
Stroke / bore	mm	89.6/84.0	88.3/89.0	80.0 / 89.0
Compression ratio	:1	10.2	10.0	10.0
Fuel		min RON 91	min RON 91	min RON 91
Max output	kW/hp	235 / 320	330 / 450	400 / 544
at	rpm	5800	5500	5250
Max torque	Nm	450	650	750
at	rpm	1300–4500	2000–4500	1500–5000
Electrical System				
Battery/location	Ah/–	90// luggage comp	105 / luggage comp	90 / luggage comp
Alternator	AW	210 / 2940	210/2940	220 / 3080
Driving Dynamics and Safety				
Suspension, front		Double-track control arm axle with separate lower track arm level in aluminium construction, small steering roll radius, anti-dive		
Suspension, rear		Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment		
Brakes, front		Single-piston swing-calliper disc brakes / vented		
Brakes, rear		Single-piston fixed-calliper disc brakes / vented		
Driving stability systems		Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake Control, DBC Dynamic Brake Control, Dry Braking, Fading Compensation, Start-Off Assistant, Dynamic Damping Control, optional: Dynamic Drive anti-roll stability management (standard in the BMW 760Li)		
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyre Defect Indicator		
Steering		Electronic Power Steering (EPS) with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump		
Steering transmission, overall	:1	17.1		
Tyres, front/rear		245/50 R18 100Y RSC	245/50 R18 100Y RSC	245/50 R18 100Y RSC
Rims, front/rear		8J x 18 light-alloy	8J x 18 light-alloy	8J x 18 light-alloy

		BMW 740Li	BMW 750Li	BMW 760Li
BMW ConnectedDrive				
Convenience		Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate		
Infotainment		Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks		
Safety		Optional: Adaptive Headlights with Cornering Lights (standard in the BMW 760Li), LED High-Beam Assistant, Park Distance Control (standard in the BMW 760Li), Side View, Top View, rear-view camera (standard in the BMW 760Li), BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call		
Transmission				
Type of transmission		Eight-speed automatic transmission with Steptronic		
Gear ratios	I	:1	4.714	4.714
	II	:1	3.143	3.143
	III	:1	2.208	2.208
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	Reverse	:1	3.295	3.317
Final drive		:1	3.077	2.813
Performance				
Power-to-weight ratio	kg/kW	7.9	5.9	5.4
Output per litre	kW/hp	78.9	75.1	67.0
Acceleration 0–100 km/h	sec	5.7	4.8	4.6
Standing start km	sec	25.2	22.9	22.8
Top speed	km/h	250	250	250
BMW EfficientDynamics				
BMW EfficientDynamics standard features		Auto Start-Stop Function, ECO PRO mode (not in the 760i/Li), Brake Energy Regeneration, Coasting Mode, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced roll resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control I (standard in the BMW 760Li)		
Fuel Consump in EU Cycle				
Urban	ltr/100 km	10.6	11.9	19.8
Extra-urban	ltr/100 km	6.3	6.6	8.9
Combined	ltr/100 km	7.9	8.6	12.9
CO ₂	g/km	184	199	303
Emission rating		EU5	EU5	EU5

Specifications applicable to ACEA markets / homologation data applicable in part only to Germany (weight)

1) Oil change

BMW ActiveHybrid 7. BMW ActiveHybrid 7 L.

		BMW ActiveHybrid 7	BMW ActiveHybrid 7 L
Body			
No of doors/seats		4 / 5	4 / 5
Length/width/height (unladen)	mm	5079 / 1902 / 1471	5219 / 1902 / 1481
Wheelbase	mm	3070	3210
Track, front/rear	mm	1611 / 1650	1611 / 1650
Ground clearance	mm	152	152
Turning circle	m	12.2	12.7
Tank capacity	app ltr	80	80
Cooling system incl heater	ltr	10.4	10.5
Engine oil ¹⁾	ltr	6.5	6.5
Weight, unladen, to DIN/EU	kg	1970 (2045)	1995 (2070)
Max load to DIN	kg	590	590
Max permissible	kg	2575	2585
Max axle load, front/rear	kg	1210 / 1450	1210 / 1470
Max trailer load (12%), braked/unbraked	kg	---	---
Max roofload/max towbardownl	kg	100 / ---	100 / ---
Luggage comp capacity	ltr	360	360
Air drag	Cd x A	0.28 x 2.42	0.28 x 2.42
Power Unit			
Config/No of cyls/valves		In-line six / 4	In-line six / 4
Engine technology		BMW TwinPower Turbo, second-generation direct injection (High Precision Injection)	BMW TwinPower Turbo, second-generation direct injection (High Precision Injection)
Capacity, effective	cc	2979	2979
Stroke / bore	mm	89.6 / 84.0	89.6 / 84.0
Compression ratio	:1	10.2	10.2
Fuel		min RON 91	min RON 91
Max output	kW/hp	235 / 320	235 / 320
at	rpm	5800	5800
Max torque	Nm	450	450
at	rpm	1300–4500	1300–4500
Output electric motor	kW/hp	40 / 55	40 / 55
Torque electric motor	Nm	210	210
System output	kW/hp	260 / 354	260 / 354
Electrical System			
Battery/location	Ah/–	90 / luggage comp	90 / luggage comp
Alternator	AW	200 / 2800	200 / 2800
Driving Dynamics and Safety			
Suspension, front		Double track control arm axle with separate lower track arm level in aluminium construction, smallsteering roll radius, anti-dive	
Suspension, rear		Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment	
Brakes, front		Single-piston swing-calliper disc brakes / vented	
Brakes, rear		Single-piston fixed-calliper disc brakes / vented	
Driving stability systems		Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake	
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyre Defect Indicator	
Steering		Electronic Power Steering (EPS) with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump	
Steering transmission, overall	:1	17.1	
Tyres, front/rear		245/50 R18 100Y RSC	245/50 R18 100Y RSC
Rims, front/rear		8J x 18 light-alloy	8J x 18 light-alloy

BMW ActiveHybrid 7			BMW ActiveHybrid 7 L
BMW ConnectedDrive			
Convenience		Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate	
Infotainment		Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks	
Safety		Optional: Adaptive Headlights with Cornering Lights, LED High-Beam Assistant, Park Distance Control, Side View, Top View, rear-view camera, BMW Parking Assistant, BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call	
Transmission			
Type of transmission		Eight-speed automatic transmission with Steptronic	
Gear ratios	I	:1	4.714
	II	:1	3.143
	III	:1	2.208
	IV	:1	1.667
	V	:1	1.285
	VI	:1	1.000
	VII	:1	0.839
	VIII	:1	0.667
	Reverse	:1	3.317
Final drive		:1	2.929
Performance			
Power-to-weight ratio	kg/kW	8.4	8.5
Output per litre	kW/hp	78.9	78.9
Acceleration 0–100 km/h	sec	5.7	5.7
Standing start km	sec	25.2	25.2
Top speed	km/h	250	250
BMW EfficientDynamics			
BMW EfficientDynamics standard features		BMW ActiveHybrid, Auto Start-Stop function, ECO PRO mode, Brake Energy Regeneration, Coasting and Green Driving Assistant, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced rolling resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control	
Fuel Consump EU Cycle			
Urban	ltr/100 km	6.0	6.0
Extra-urban	ltr/100 km	7.2	7.2
Combined	ltr/100 km	6.8	6.8
CO ₂	g/km	158	158
Emission rating		EU5	EU5

Specifications applicable to ACEA markets / homologation data applicable in part only to Germany (weight)

1) Oil change

BMW 730i. BMW 730Li.

		BMW 730i	BMW 730Li
Body			
No of doors/seats		4 / 5	4 / 5
Length/width/height (unladen)	mm	5079 / 1902 / 1471	5219 / 1902 / 1481
Wheelbase	mm	3070	3210
Track, front/rear	mm	1611 / 1650	1611 / 1650
Ground clearance	mm	152	152
Turning circle	m	12.2	12.7
Tank capacity	app ltr	80	82
Cooling system incl heater	ltr	8.1	8.1
Engine oil ¹⁾	ltr	6.5	10.5
Weight, unladen, to DIN/EU	kg	1765 (1840)	1790 (1865)
Max load to DIN	kg	660	660
Max permissible	kg	2505	2510
Max axle load, front/rear	kg	1160 / 1425	1170 / 1425
Max trailer load (12%), braked/unbraked	kg	2100 / 750	2100 / 750
Max roofload/max towbardownl	kg	100 / 100	100 / 100
Luggage comp capacity	ltr	500	500
Air drag	Cd x A	0.28 x 2.42	0.28 x 2.42
Power Unit			
Config/No of cyls/valves		In-line six / 4	In-line six / 4
Engine technology		Second-generation direct injection (High Precision Injection)	Second-generation direct injection (High Precision Injection)
Capacity, effective	cc	2996	2996
Stroke / bore	mm	88.0 / 85.0	88.0 / 85.0
Compression ratio	:1	10.7	10.7
Fuel		min RON 91	min RON 91
Max output	kW/hp	190 / 258	190 / 258
at	rpm	6600	6600
Max torque	Nm	310	310
at	rpm	2600–3000	2600–3000
Electrical System			
Battery/location	Ah/–	90 / luggage comp	90 / luggage comp
Alternator	AW	210 / 2940	210 / 2940
Driving Dynamics and Safety			
Suspension, front		Double-track control arm axle with separate lower track arm level in aluminium construction, small steering roll radius, anti-dive	
Suspension, rear		Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment	
Brakes, front		Single-piston swing-calliper disc brakes / vented	
Brakes, rear		Single-piston fixed-calliper disc brakes / vented	
Driving stability systems		Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake Control, DBC Dynamic Brake Control, Dry Braking, Fading Compensation, Start-Off Assistant, Dynamic Damping Control, optional: Dynamic Drive anti-roll stability management	
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyre Defect Indicator	
Steering		Electronic Power Steering (EPS) with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump	
Steering transmission, overall	:1	17.1	17,1
Tyres, front/rear		245/55 R17 102W	245/55 R17 102W RSC
Rims, front/rear		8J x 17 light-alloy	8J x 17 light-alloy

BMW 730i				BMW 730Li
BMW ConnectedDrive				
Convenience		Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate		
Infotainment		Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks		
Safety		Optional: Adaptive Headlights with Cornering Lights, LED High-Beam Assistant, Park Distance Control, Side View, Top View, rear-view camera, BMW Parking Assistant, BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call		
Transmission				
Type of transmission		Eight-speed automatic transmission with Steptronic		
Gear ratios	I	:1	4.714	4.714
	II	:1	3.143	3.143
	III	:1	2.208	2.208
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	Reverse	:1	3.295	3.295
Final drive		:1	3.462	3.462
Performance				
Power-to-weight ratio	kg/kW		9.3	9.4
Output per litre	kW/hp		63.4	63.4
Acceleration 0–100 km/h	sec		7.4	7.5
Standing start km	sec		27.4	27.5
Top speed	km/h		250	250
BMW EfficientDynamics				
BMW EfficientDynamics standard features		Auto Start-Stop function, ECO PRO mode, Brake Energy Regeneration, coasting mode, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced rolling resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control		
Fuel Consump EU Cycle				
Urban	ltr/100 km		12.4	12.4
Extra-urban	ltr/100 km		6.3	6.3
Combined	ltr/100 km		8.6	8.7
CO ₂	g/km		199	199
Emission rating			EU5	EU5

Specifications applicable to ACEA markets / homologation data applicable in part only to Germany (weight)

1) Oil change

BMW 730d xDrive. BMW 740d xDrive. BMW 750d xDrive.

2.		BMW 730d xDrive	BMW 740d xDrive	BMW 750d xDrive
Body				
No of doors/seats		4 / 5	4 / 5	4 / 5
Length/width/height (unladen)	mm	5079 / 1902 / 1471	5079 / 1902 / 1471	5079 / 1902 / 1471
Wheelbase	mm	3070	3070	3070
Track, front/rear	mm	1611 / 1650	1611 / 1650	1611 / 1650
Ground clearance	mm	152	152	152
Turning circle	m	12.2	12.2	12.2
Tank capacity	app ltr	80	80	80
Cooling system incl heater	ltr	8.8	8.9	11.9
Engine oil ¹⁾	ltr	7.2	7.2	7.5
Weight, unladen, to DIN/EU	kg	1910 / 1985	1940 / 2015	1995 / 2070
Max load to DIN	kg	640	650	640
Max permissible	kg	2550	2590	2635
Max axle load, front/rear	kg	1210 / 1420	1230 / 1420	1275 / 1430
Max trailer load (12%), braked/unbraked	kg	2100 / 750	2300 / 750	2100 / 750
Max roofload/max towbardownl	kg	100 / 100	100 / 100	100 / 100
Luggage comp capacity	ltr	500	500	500
Air drag	Cd x A	0.29 x 2.42	0.29 x 2.42	0.30 x 2.42
Power Unit				
Config/No of cyls/valves		In-line six / 4	In-line six / 4	In-line six / 4
Engine technology		Turbocharger with variable intake geometry, common-rail direct fuel injection with piezo injectors (max injection pressure: 1800 bar)	BMW TwinPower Turbo (Variable Twin Turbo), common-rail direct fuel injection with piezo injectors (max injection pressure: 2000 bar)	BMW TwinPower Turbo (Variable Tri Turbo), common-rail direct fuel injection with piezo injectors (max injection pressure: 2200 bar)
Capacity, effective	cc	2993	2993	2993
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		Diesel	Diesel	Diesel
Max output	kW/hp	190 / 258	230 / 313	280 / 381
at	rpm	4000	4300	4400
Max torque	Nm	560	630	740
at	rpm	1500	1500	2000
Electrical System				
Battery/location	Ah/–	90 // luggage comp	90 // luggage comp	90 // luggage comp
Alternator	A/W	180 / 2520	180 / 2520	180 / 2520
Driving Dynamics and Safety				
Suspension, front		Double-track control arm axle with separate lower track arm level in aluminium, small steering roll radius, anti-dive		
Suspension, rear		Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment (air suspension with self-levelling standard on long-wheelbase version)		
Brakes, front		Single-piston swing-calliper disc brakes / vented		
Brakes, rear		Single-piston swing-calliper disc brakes / vented		
Driving stability systems		Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake Control, DBC Dynamic Brake Control, Dry Braking, Fading Compensation, Start-Off Assistant, Dynamic Damping Control, optional: Dynamic Drive anti-roll stability management, networked with xDrive all-wheel-drive system in Integrated Chassis Management		
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyre Defect Indicator		
Steering		Rack-and-pinion power steering with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump		
Steering transmission, overall	:1	19.1	19.1	19.1
Tyres, front/rear		245/55 R17 102W	245/50 R18 100Y RSC	245/50 R18 100Y RSC
Rims, front/rear		8J x 17 light-alloy	8J x 18 light-alloy	8J x 18 light-alloy

		BMW 730d xDrive	BMW 740d xDrive	BMW 750d xDrive
BMW ConnectedDrive				
Convenience		Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate		
Infotainment		Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks		
Safety		Optional: Adaptive Headlights with Cornering Lights, LED High-Beam Assistant, Park Distance Control, Side View, Top View, rear-view camera, BMW Parking Assistant, BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call		
Transmission				
Type of transmission		Eight-speed automatic transmission with Steptronic function		
Gear ratios	I	:1	4.714	4.714
	II	:1	3.143	3.143
	III	:1	2.208	2.208
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	Reverse	:1	3.317	3.317
Final drive		:1	2.563	2.647
Performance				
Power-to-weight ratio	kg/kW	10.1	8.4	7.1
Output per litre	kW/hp	63.5	76.8	93.6
Acceleration 0–100 km/h	sec	6.0	5.4	4.9
Standing start km	sec	26.4	25.2	24.0
Top speed	km/h	250	250	250
BMW EfficientDynamics				
BMW EfficientDynamics standard features		Auto Start-Stop function, ECO PRO mode, Brake Energy Regeneration, coasting mode, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced rolling resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control		
Fuel Consump EU Cycle				
Urban	ltr/100 km	7.2	7.3	7.3
Extra-urban	ltr/100 km	5.3	5.3	5.9
Combined	ltr/100 km	6.0	6.0	6.4
CO ₂	g/km	158	159	169
Emission rating		EU5	EU5	EU6

Specifications applicable to ACEA markets / homologation data applicable in part only to Germany (weight)

1) Oil change

BMW 750Ld xDrive.

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BMW 750Ld xDrive		
Body		
No of doors/seats		4 / 5
Length/width/height (unladen)	mm	5219 / 1902 / 1481
Wheelbase	mm	3210
Track, front/rear	mm	1611 / 1650
Ground clearance	mm	152
Turning circle	m	13.0
Tank capacity	app ltr	80
Cooling system incl heater	ltr	11.9
Engine oil ¹⁾	ltr	7.5
Weight, unladen, to DIN/EU	kg	2020 / 2095
Max load to DIN	kg	650
Max permissible	kg	2670
Max axle load, front/rear	kg	1330 / 1440
Max trailer load (12%), braked/unbraked	kg	2300 / 750
Max roofload/max towbardownl	kg	100 / 100
Luggage comp capacity	ltr	500
Air drag	Cd x A	0.30 x 2.42
Power Unit		
Config/No of cyls/valves		In-line six / 4
Engine technology		BMW TwinPower Turbo (Variable Tri- Turbo), common-rail direct fuel injection with piezo injectors (max injection pressure: 2200 bar)
Capacity, effective	cc	2993
Stroke / bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		Diesel
Max output	kW/hp	280 / 381
at	rpm	4400
Max torque	Nm	740
at	rpm	2000
Electrical System		
Battery/location	Ah/-	105 / luggage comp
Alternator	A/W	180 / 2520
Driving Dynamics and Safety		
Suspension, front	Double-track control arm axle with separate lower track arm level in aluminium, small steering roll radius, anti-dive	
Suspension, rear	Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment	
Brakes, front	Single-piston swing-calliper disc brakes / vented	
Brakes, rear	Single-piston swing-calliper disc brakes / vented	
Driving stability systems	Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake Control, DBC Dynamic Brake Control, Dry Braking, Fading Compensation, Start-Off Assistant, Dynamic Damping Control, optional: Dynamic Drive anti-roll stability management, networked with xDrive all-wheel-drive system in Integrated Chassis Management	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyre Defect Indicator	
Steering	Rack-and-pinion power steering with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump	
Steering transmission, overall	:1	19.1
Tyres, front/rear		245/50 R18 100Y RSC
Rims, front/rear		8J x 18 light-alloy

BMW 750Ld xDrive			
BMW ConnectedDrive			
Convenience		Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate	
Infotainment		Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks	
Safety		Optional: Adaptive Headlights with Cornering Lights, LED High-Beam Assistant, Park Distance Control, Side View, Top View, rear-view camera, BMW Parking Assistant, BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call	
Transmission			
Type of transmission		Eight-speed automatic transmission with Steptronic function	
Gear ratios	I	:1	4.714
	II	:1	3.143
	III	:1	2.208
	IV	:1	1.667
	V	:1	1.285
	VI	:1	1.000
	VII	:1	0.839
	VIII	:1	0.667
	Reverse	:1	3.317
Final drive		:1	2.813
Performance			
Power-to-weight ratio	kg/kW		7.2
Output per litre	kW/hp		93.6
Acceleration 0–100 km/h	sec		4.9
Standing start km	sec		24.1
Top speed	km/h		250
BMW EfficientDynamics			
BMW EfficientDynamics standard features		Auto Start-Stop function, ECO PRO mode, Brake Energy Regeneration, coasting mode, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced rolling resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control	
Fuel Consump EU Cycle			
Urban	ltr/100 km		7.3
Extra-urban	ltr/100 km		5.9
Combined	ltr/100 km		6.4
CO ₂	g/km		169
Emission rating			EU6

Specifications applicable to ACEA markets / homologation data applicable in part only to Germany (weight)

1) Oil change

BMW 730d. BMW 740d.

BMW 730d			BMW 740d
Body			
No of doors/seats		4 / 5	4 / 5
Length/width/height (unladen)	mm	5079 / 1902 / 1471	5079 / 1902 / 1471
Wheelbase	mm	3070	3070
Track, front/rear	mm	1611 / 1650	1611 / 1650
Ground clearance	mm	152	152
Turning circle	m	12.2	12.2
Tank capacity	app ltr	80	80
Cooling system incl heater	ltr	8.8	8.9
Engine oil ¹⁾	ltr	7.2	7.2
Weight, unladen, to DIN/EU	kg	1840 / 1915	1865 / 1940
Max load to DIN	kg	640	650
Max permissible	kg	2505	2515
Max axle load, front/rear	kg	1180 / 1405	1200 / 1410
Max trailer load (12%), braked/unbraked	kg	2100 / 750	2100 / 750
Max roofload/max towbardownl	kg	100 / 100	100 / 100
Luggage comp capacity	ltr	500	500
Air drag	Cd x A	0.28 x 2.42	0.28 x 2.42
Power Unit			
Config/No of cyls/valves		In-line six / 4	In-line six / 4
Engine technology		Turbocharger with variable intake geometry, common-rail direct fuel injection with piezo injectors (max injection pressure: 1800 bar)	BMW TwinPower Turbo (Variable Twin Turbo), common-rail direct fuel injection with piezo injectors (max injection pressure: 2000 bar)
Capacity, effective	cc	2993	2993
Stroke / bore	mm	90.0 / 84.0	90.0 / 84.0
Compression ratio	:1	16.5	16.5
Fuel		Diesel	Diesel
Max output	kW/hp	190 / 258	230 / 313
at	rpm	4000	4300
Max torque	Nm	560	630
at	rpm	1500	1500
Electrical System			
Battery/location	Ah/–	90 / luggage comp	90 / luggage comp
Alternator	A/W	180 / 2520	180 / 2520
Driving Dynamics and Safety			
Suspension, front		Double-track control arm axle with separate lower track arm level in aluminium, small steering roll radius, anti-dive	
Suspension, rear		Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment (air suspension with self-levelling standard on long-wheelbase version)	
Brakes, front		Single-piston swing-calliper disc brakes / vented	
Brakes, rear		Single-piston swing-calliper disc brakes / vented	
Driving stability systems		Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake Control, DBC Dynamic Brake Control, Dry Braking, Fading Compensation, Start-Off Assistant, Dynamic Damping Control; optional: Dynamic Drive anti-roll stability management	
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyres Defect Indicator	
Steering		Electronic Power Steering (EPS) with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump	
Steering transmission, overall	:1	17.1	17.1
Tyres, front/rear		245/55 R17 102W RSC	245/50 R18 100Y RSC
Rims, front/rear		8J x 17 light-alloy	8J x 18 light-alloy

BMW 730d			BMW 740d	
BMW ConnectedDrive				
Convenience	Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate			
Infotainment	Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks			
Safety	Optional: Adaptive Headlights with Cornering Lights, LED High-Beam Assistant, Park Distance Control, Side View, Top View, rear-view camera, BMW Parking Assistant, BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call			
Transmission				
Type of transmission	Eight-speed automatic transmission with Steptronic function			
Gear ratios	I	:1	4.714	4.714
	II	:1	3.143	3.143
	III	:1	2.208	2.208
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	Reverse	:1	3.317	3.317
Final drive		:1	2.563	2.647
Performance				
Power-to-weight ratio	kg/kW	9.7	8.1	
Output per litre	kW/hp	63.5	76.8	
Acceleration 0–100 km/h	sec	6.1	5.5	
Standing start km	sec	26.3	25.2	
Top speed	km/h	250	250	
BMW EfficientDynamics				
BMW EfficientDynamics standard features	Auto Start-Stop function, ECO PRO mode, Brake Energy Regeneration, coasting mode, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced rolling resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control			
Fuel Consump EU Cycle				
Urban	ltr/100 km	6.8	6.9	
Extra-urban	ltr/100 km	4.8	4.8	
Combined	ltr/100 km	5.6	5.7	
CO ₂	g/km	148	149	
Emission rating		EU5	EU5	

Specifications applicable to ACEA markets / homologation data applicable in part only to Germany (weight)

BMW 730Ld		
Body		
No of doors/seats		4 / 5
Length/width/height (unladen)	mm	5219 / 1902 / 1481
Wheelbase	mm	3210
Track, front/rear	mm	1611 / 1650
Ground clearance	mm	152
Turning circle	m	12.7
Tank capacity	app ltr	80
Cooling system incl heater	ltr	8.8
Engine oil ¹⁾	ltr	7.2
Weight, unladen, to DIN/EU	kg	1875 / 1950
Max load to DIN	kg	640
Max permissible	kg	2535
Max axle load, front/rear	kg	1190 / 1410
Max trailer load (12%), braked/unbraked	kg	2100 / 750
Max roofload/max towbardownl	kg	100 / 100
Luggage comp capacity	ltr	500
Air drag	Cd x A	0.28 x 2.42
Power Unit		
Config/No of cyls/valves		In-line six / 4
Engine technology	Turbocharger with variable intake geometry, common-rail direct fuel injection with piezo injectors (max, pressure: 1800 bar)	
Capacity, effective	cc	2993
Stroke / bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		Diesel
Max output	kW/hp	190 / 258
at	rpm	4000
Max torque	Nm	560
at	rpm	1500
Electrical System		
Battery/location	Ah/–	105 // luggage comp
Alternator	AW	180 / 2520
Driving Dynamics and Safety		
Suspension, front	Double-track control arm axle with separate lower track arm level in aluminium construction, small steering roll radius, anti-dive	
Suspension, rear	Integral-V multi-arm axle in aluminium with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic height adjustment	
Brakes, front	Single-piston swing-calliper disc brakes / vented	
Brakes, rear	Single-piston swing-calliper disc brakes / vented	
Drivingstabilitysystems	Standard: DSC incl ABS and DTC Dynamic Traction Control, CBC Cornering Brake Control, DBC Dynamic Brake Control, Dry Braking, Fading Compensation, Start-Off Assistant, Dynamic Damping Control, optional: Dynamic Drive anti-roll stability management	
Safetyequipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, active headrests at the front, three-point inertia-reel seat belts on all seats, belt latch tensioners at the front, crash sensors, Tyre Defect Indicator	
Steering	Electronic Power Steering (EPS) with speed-related steering assistance (Servotronic) and CO ₂ -optimised pump	
Steering transmission, overall	:1	17.1
Tyres, front/rear	245/55 R17 102W RSC	
Rims, front/rear	8J x 17 light-alloy	

BMW 730Ld			
BMW ConnectedDrive			
Convenience		Optional: BMW Assist including Enquiry Service, remote-control function and RTTI Real Time Traffic Information, BMW TeleServices, integration of mobile devices, Rear Seat Entertainment, Comfort Access with contactless opening of the tailgate	
Infotainment		Optional: internet access, BMW Online including features such as Park Info, 3D City Mode, National Info, Google Local Search, News, Realtime Weather, Office functions, Speech to Text, BMW Routes, Online Update Music Tracks	
Safety		Optional: Adaptive Headlights with Cornering Lights, LED High-Beam Assistant, Park Distance Control, Side View, Top View, rear-view camera, BMW Parking Assistant, BMW Night Vision with pedestrian detection + Dynamic Light Spots, Head-Up Display, Active Cruise Control premium with Stop & Go and emergency brake assist, Lane Change Warning, Lane Departure Warning, Speed Limit Info with No Passing Info, Active Protection with Attentiveness assistant, Automatic/Advanced Emergency Call	
Transmission			
Type of transmission		Eight-speed automatic transmission with Steptronic function	
Gear ratios	I	:1	4.714
	II	:1	3.143
	III	:1	2.208
	IV	:1	1.667
	V	:1	1.285
	VI	:1	1.000
	VII	:1	0.839
	VIII	:1	0.667
	Reverse	:1	3.317
Final drive		:1	2.563
Performance			
Power-to-weight ratio	kg/kW		9.9
Output per litre	kW/hp		63.5
Acceleration 0–100 km/h	sec		6.2
Standing start km	sec		26.4
Top speed	km/h		250
BMW EfficientDynamics			
BMW EfficientDynamics standard features		Auto Start-Stop function, ECO PRO mode, Brake Energy Regeneration, coasting mode, Varioserve steering assistance pump, intelligent lightweight technology, air flap control, on-demand fuel pump, on-demand coolant pump, final drive with optimised thermal management, tyres with reduced rolling resistance, a/c compressor detachable, optional Dynamic Drive with on-demand pump control	
Fuel Consump EU Cycle			
Urban	ltr/100 km		6.8
Extra-urban	ltr/100 km		4.8
Combined	ltr/100 km		5.6
CO ₂	g/km		148
Emission rating			EU5

Specifications applicable to ACEA markets / homologation data applicable in part only to Germany (weight)

1) Oil change



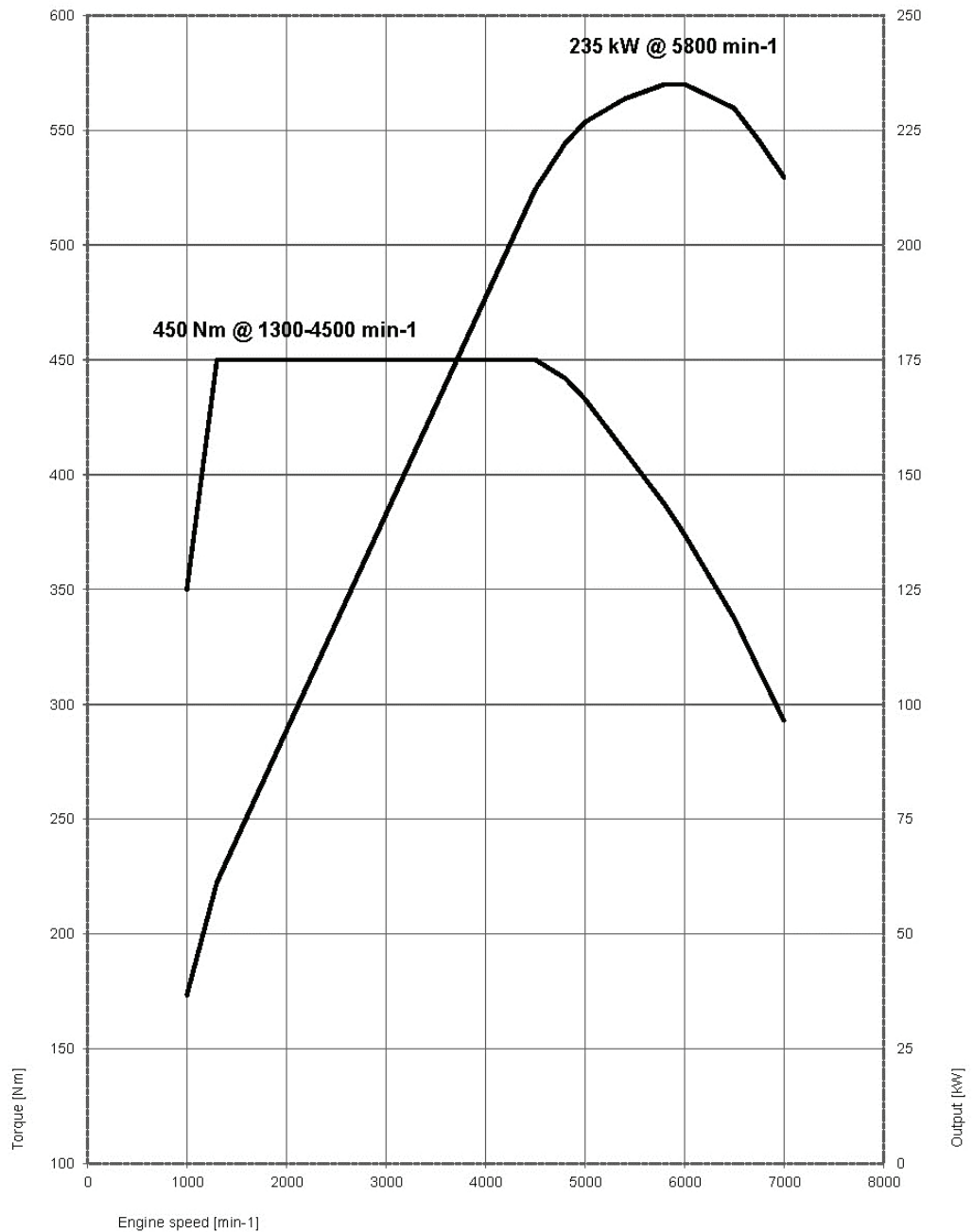
11. Torque and Output diagrams.

BMW 740i.

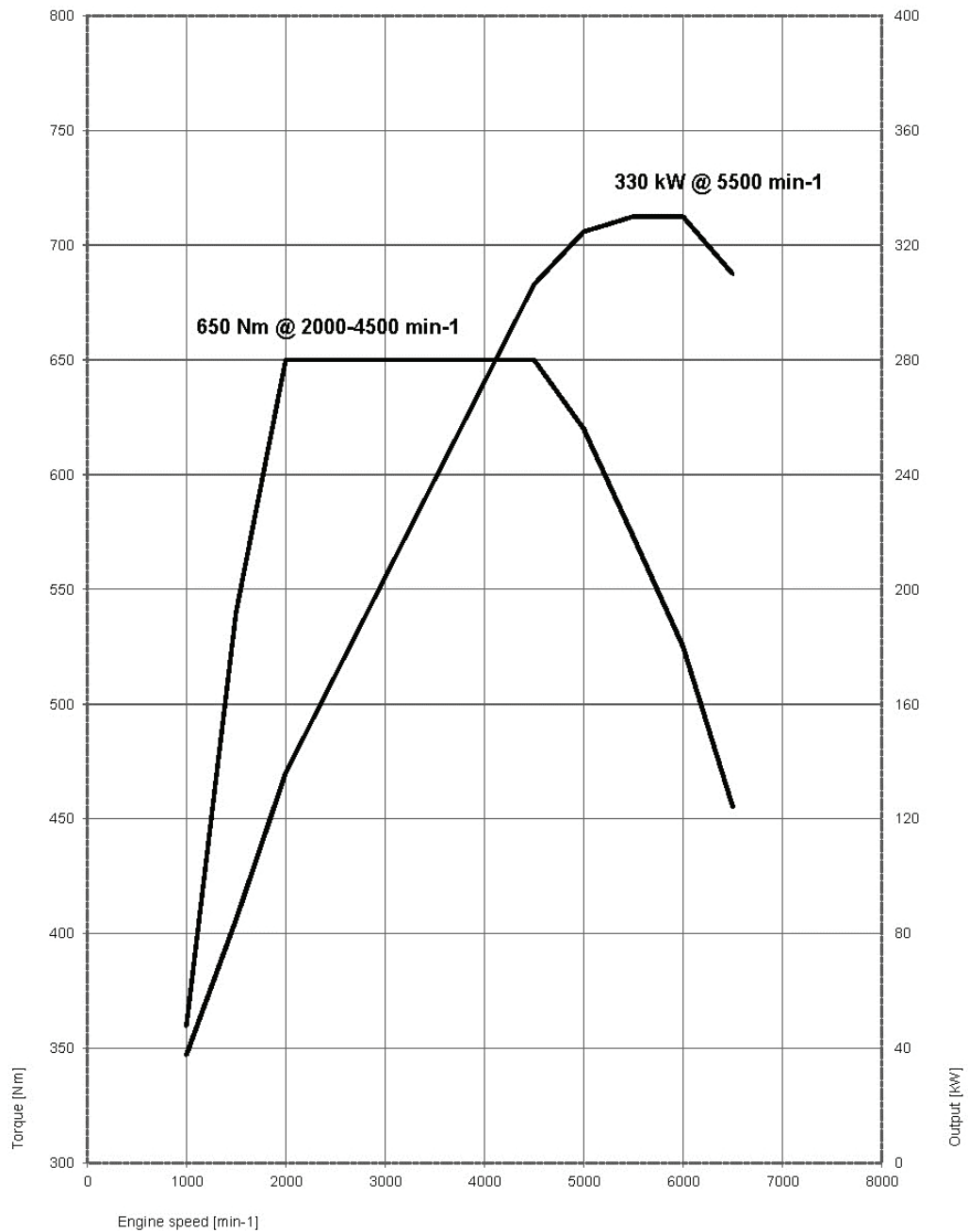
BMW 740Li.

BMW 740iH.

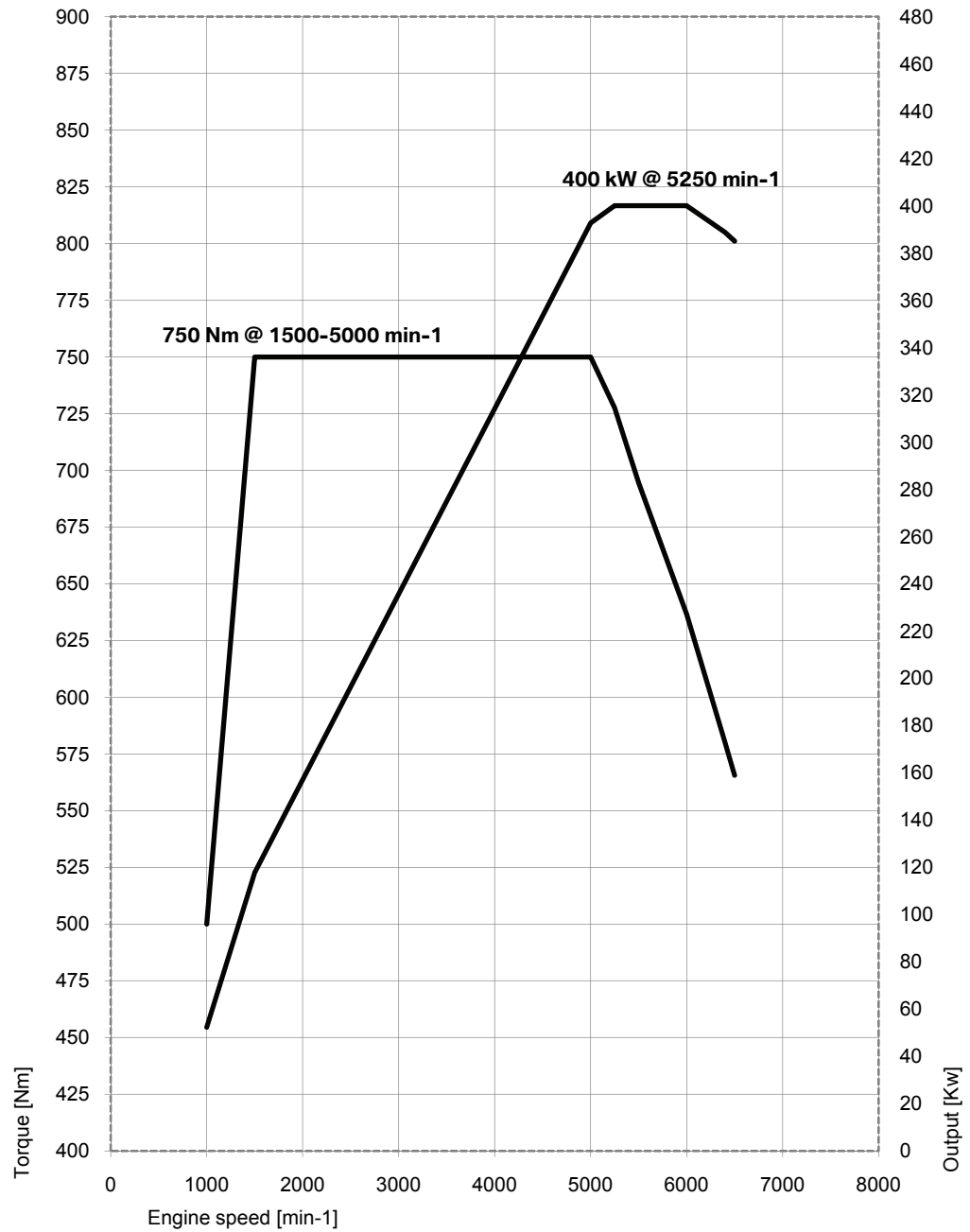
BMW 740LiH.



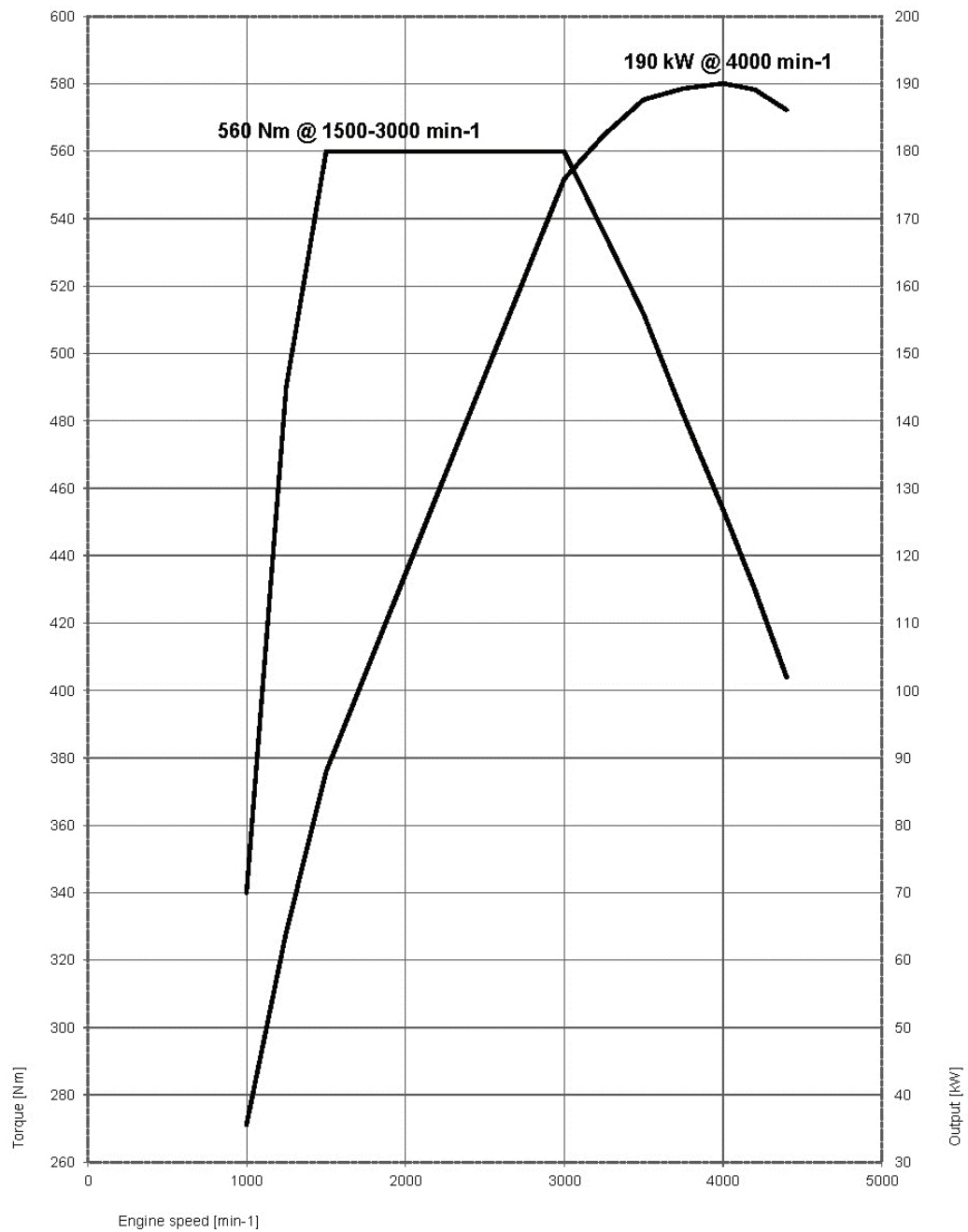
BMW 750i. BMW 750i xDrive. BMW 750Li xDrive. BMW 750Li.



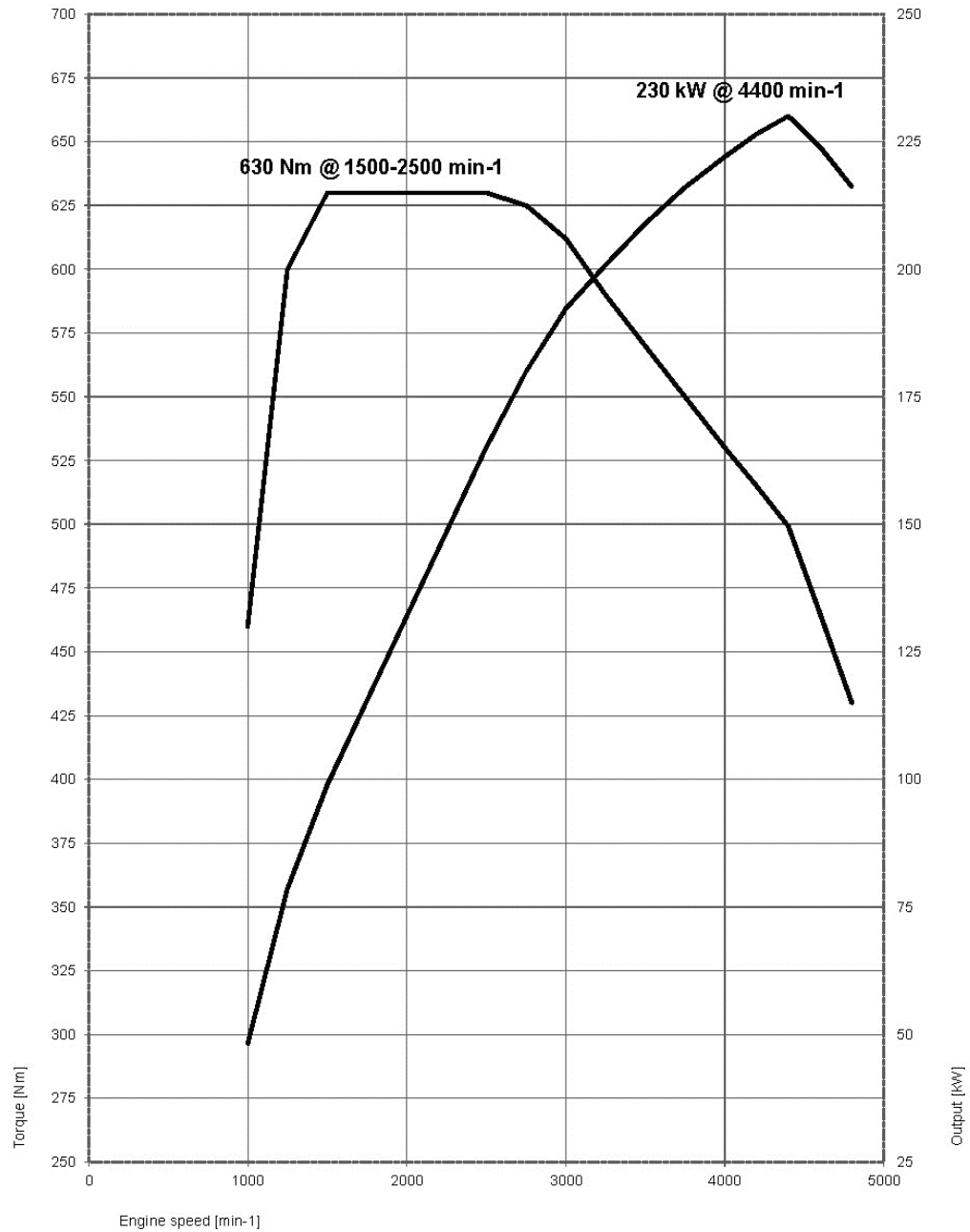
BMW 760i. BMW 760Li.



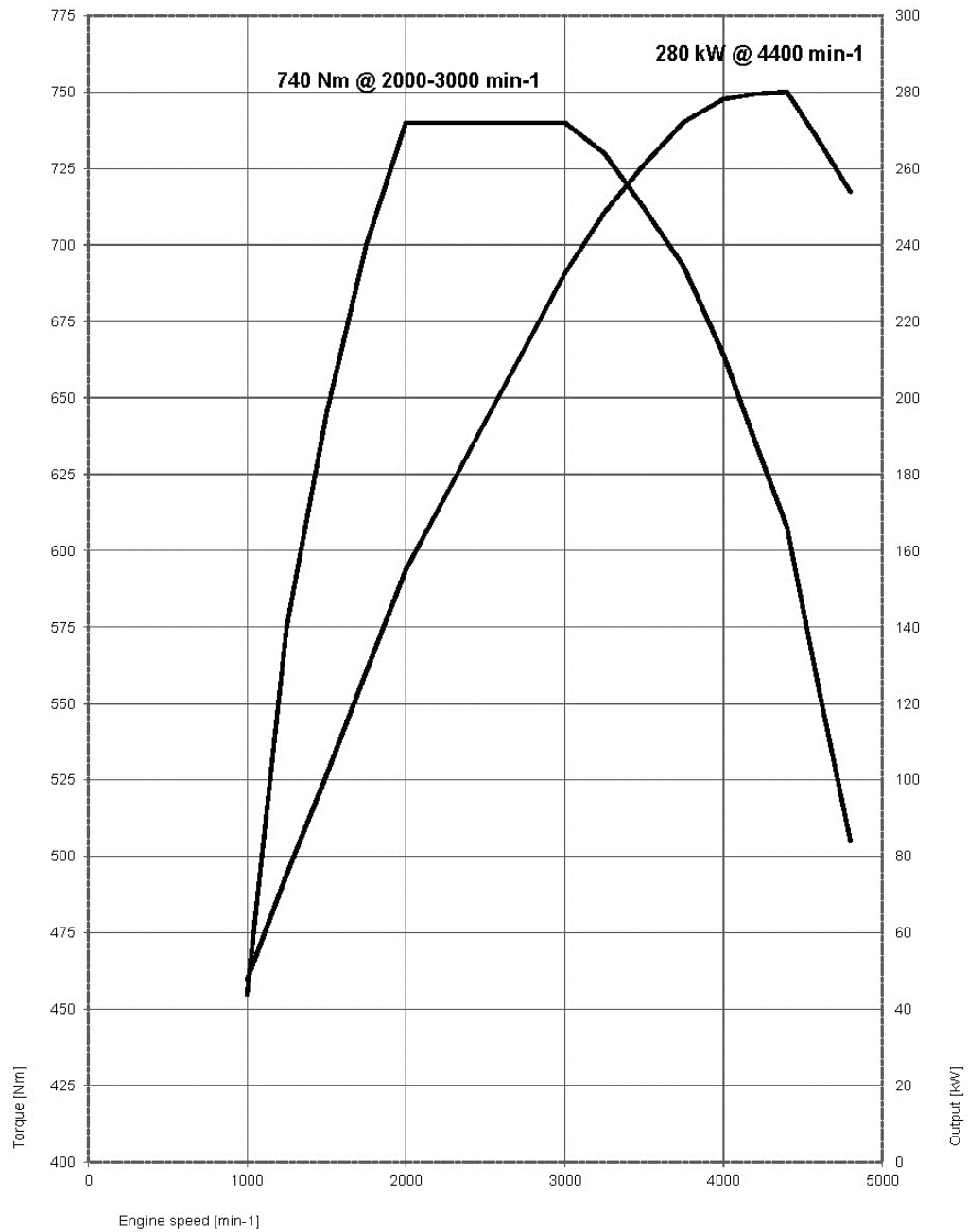
BMW 730d xDrive. BMW 730d. BMW 730Ld.



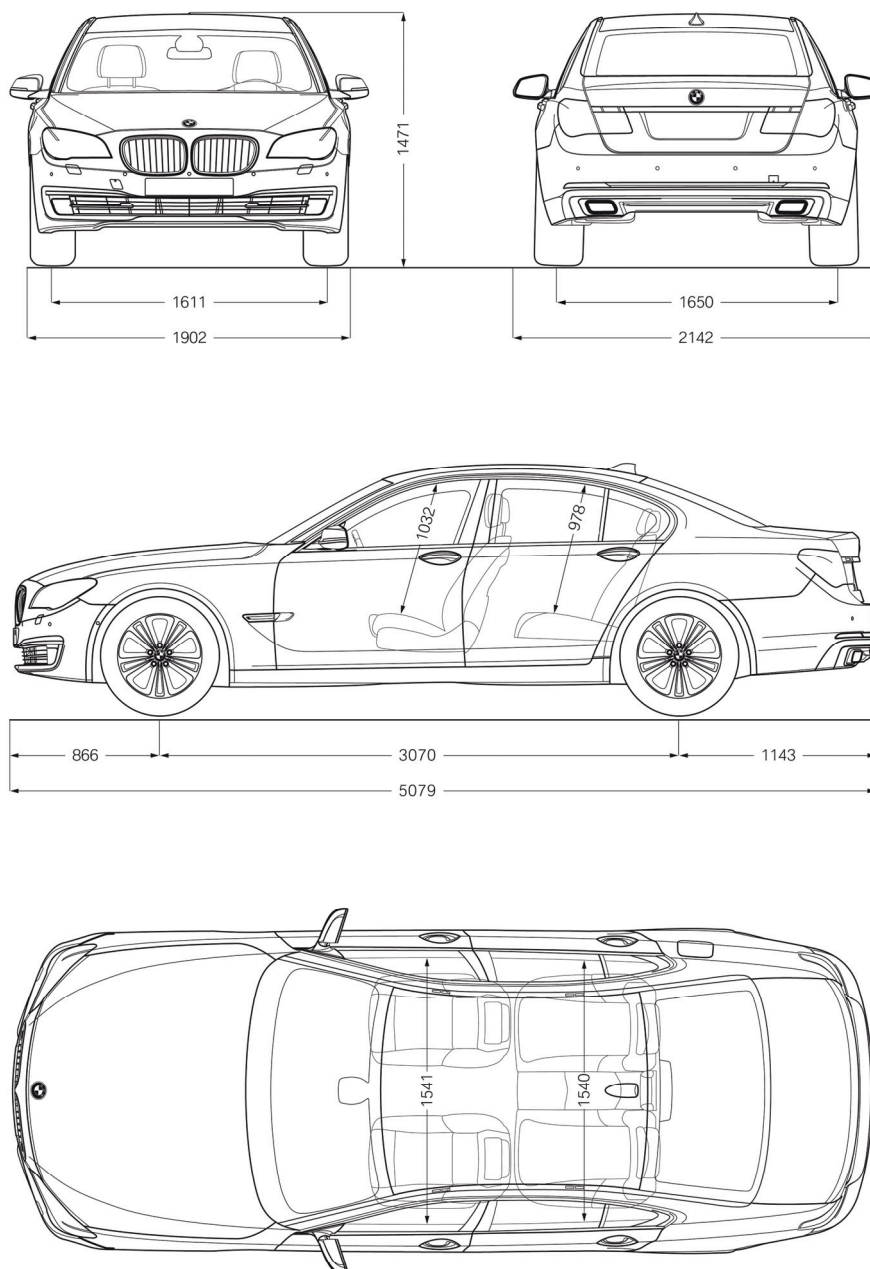
BMW 740d xDrive. BMW 740d.



BMW 750d xDrive. BMW 750Ld xDrive



12. Exterior and interior dimensions. BMW 7 Series.



BMW 7 Series long-wheelbase version.

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