The new BMW 4 Series Coupe.



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1. The new BMW 4 Series Coupe: (Highlights)



The new BMW 4 Series Coupe heralds the dawn of a new coupe era at BMW. Launched as the fourth generation of BMW's sporty mid-size Coupe, the new BMW 4 Series Coupe embodies the very essence of aesthetic appeal and dynamics in the premium segment. Its stylistic features carry the promise of a powerful presence on the road, stand-out dynamic ability and driving pleasure in abundance. Indeed, the new BMW 4 Series Coupe represents a paragon of balanced proportions and the final chapter in a story of development. The "4" in its title headlines this new era for the Coupe and emphasises not only its stand-alone design, but equally an even greater technical differentiation from its BMW 3 Series cousins, something that can also be seen in new premium features such as the optional full LED headlights.

The new BMW 4 Series Coupe is visibly larger in width and wheelbase than the outgoing BMW 3 Series Coupe, and its dynamically stretched coupe silhouette sits considerably lower to the road. This, together with its BMW-typical short overhangs, long bonnet and set-back passenger compartment with flowing roofline, lends the BMW 4 Series Coupe impeccable balance. The car's striking front end – with its characteristic BMW design features, such as the double-kidney grille, twin circular headlights and a large air intake in the front apron – is keen to display its family ties with the BMW 3 Series. However, the more sporting interpretation of the BMW 4 Series Coupe also underlines its dynamic convictions. A new element of the BMW 4 Series Coupe are the Air Breathers, positioned rearwards of the front wheel arches to reduce drag in this area. The Coupe's muscular wheel arches and wide track make a particularly prominent contribution to the hunkered-down design of the rear, with its prominent horizontal lines.

Individual equipment lines for the interior and exterior.

The interior of the BMW 4 Series Coupe presents a stylish fusion of sporting allure and exclusivity. All the controls central to driving are arranged ergonomically around the driver and give him or her optimum access to all functions. The doors are designed so that all the lines converge towards the rear, pulling the focus of the interior clearly towards the front. In the rear compartment, contoured seats underline the sporting credentials of the BMW 4 Series Coupe. Recessed head restraints and broad, continuously moulded side supports give the rear bench the appearance of two individual seats. High-grade material combinations and unbeatable finish quality accentuate

the premium ambience of the new BMW 4 Series Coupe. Customers can choose from three equipment combinations and an M Sport package as alternatives to standard specification. The Sport Line, Modern Line and Luxury Line packages allow visible individualisation of the car's exterior and interior appearance.

Driving dynamics from the top drawer.

The defining ingredients in the involving driving experience laid on by the new BMW 4 Series Coupe are its impressive driving dynamics and assured handling properties. The BMW engineers have succeeded in making key improvements in areas such as steering accuracy, precision and agility, as well as honing, further still, the instincts of the new BMW 4 Series Coupe as an unadulterated driving machine. Sophisticated chassis technology, torque steer-free Electric Power Steering, 50:50 weight distribution, a programme of fine-tuning in the wind tunnel and an innovative lightweight construction concept gave them the tools to achieve their aims.

The new BMW 4 Series Coupe has a longer wheelbase, wider track and lower ride height than the BMW 3 Series Coupe it replaces. Its lower suspension brings the car's centre of gravity down to below 500 millimetres, giving it the lowest centre of gravity of any car in the current BMW model line-up. As a result, the new BMW 4 Series Coupe is one of the sportiest series-produced cars in the BMW range and sets new dynamic standards in the segment.

One six-cylinder and two four-cylinder engines available from launch.

The sporting two-door model will be available from launch powered by the following engines: the six-cylinder in-line petrol engine in the BMW 435i Coupe, the four-cylinder petrol unit for the BMW 428i Coupe and the four-cylinder diesel for the BMW 420d Coupe. All the engines work using the latest BMW TwinPower Turbo technology and cover an output spectrum stretching from 135 kW/184 hp to 225 kW/306 hp. These state-of-the-art engines not only imbue the BMW 4 Series Coupe with outstanding acceleration and elasticity, they also join forces with the car's intelligent lightweight construction concept to deliver further improvements in driving dynamics and lower fuel consumption.

Six-speed manual gearbox or eight-speed Sports automatic.

The power from the engines is sent to the rear wheels via a six-speed manual gearbox as standard. BMW will also fit all the engine variants – as an option – with an eight-speed Sports automatic gearbox, which allows the driver to change gear manually as well using shift paddles on the steering wheel. The

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two petrol-engine model variants can be specified from launch, as an option, with the BMW xDrive intelligent all-wheel-drive system.

BMW EfficientDynamics.

The driving pleasure available on board the new BMW 4 Series Coupe is a product of outstanding economy as well as sporting dynamics. The force behind this talent for fuel saving is the BMW EfficientDynamics development strategy, whose fruits can be found in almost every area of the new model. In addition to the petrol and diesel engines, with their optimised fuel economy, the car's intelligent lightweight construction concept and honed aerodynamics - headlined by the Air Curtains and Air Breathers - also help to maximise efficiency. The BMW 4 Series Coupe may be set up to specialise in dynamic excellence, but other technological features, such as the Auto Start Stop function, Brake Energy Regeneration, Optimum Shift Indicator and ondemand operation of ancillary units, do their bit to ensure it impresses with low fuel consumption and emissions, too. Indeed, ECO PRO mode gives the car the potential to cut fuel use by as much as 20 per cent. In conjunction with the optional automatic transmission, the BMW 4 Series Coupe now also features a coasting mode for the first time. Another innovation is the Proactive Driving Assistant.

BMW Connected Drive.

The new BMW 4 Series Coupe deploys a unique combination of driver assistance systems and mobility services (available as standard or as an option under the BMW ConnectedDrive banner) to set the benchmark in terms of safety, comfort and infotainment. Among the highlights are a new generation of the Navigation System Professional, which offers extra capability, sharper graphics and 3D elements for the map display, the full-colour BMW Head-Up Display, Driving Assistant Plus, which warns the driver of a potential collision with a pedestrian, the intelligent, glare-free LED High Beam Assistant, Active Protection with Attentiveness Assistant and the latest development stage of the Active Cruise Control with Stop & Go function. As far as infotainment is concerned, extremely efficient interface technology enables the integration of smartphones and numerous Bluetooth office functions. The latter now also offer the driver the services of a dictation function with full speech recognition.

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2. Design:



Flawless aesthetics come together with individuality and sporting ability.

The launch of the new BMW 4 Series Coupe marks the arrival of the fourth generation of BMW's sporty premium mid-size Coupe. The BMW Concept 4 Series Coupe, which celebrated its world premiere at the NAIAS 2013 in Detroit, previewed the evolutionary development of BMW's design language. And now this progression is enshrined in the seriesproduction model. The BMW 4 Series Coupe represents the epitome of aesthetic appeal and sporty dynamics in the premium segment and reinforces the company's claims to leadership in the international marketplace. Its stylistic features carry the promise of a powerful presence on the road, standout dynamic ability and unbeatable driving pleasure. Indeed, the new BMW 4 Series Coupe represents a paragon of balanced proportions and the final chapter in a story of development. The "4" in its title headlines this new era for the Coupe and emphasises not only its stand-alone design, but also its even sharper sporting dynamics, increased exclusivity and clear technical differentiation from the BMW 3 Series range. At the same time, BMW is using the new nomenclature to latch onto the fine tradition established by the large BMW 6 Series and BMW 8 Series Coupes.

Athletic elegance, impeccable proportions.

The dynamic proportions of the new BMW 4 Series Coupe differ significantly from those of the outgoing BMW 3 Series Coupe. Although only 26 millimetres have been added to the car's length (4,638 mm), a 50-millimetre longer wheelbase (2,810 mm) and a roofline that now runs 16 millimetres lower than before (1,362 mm) shine a particularly vivid spotlight on the dynamically stretched coupe outline. These dimensions combine with the BMW 4 Series Coupe's BMW-typical short overhangs, long bonnet, set-back passenger compartment and flowing roofline to produce a silhouette boasting impeccable visual balance. The athletic appearance of the BMW 4 Series Coupe is rounded off by the 43-millimetre increase in the Coupe's width (1,825 millimetres). For the first time, the rear wheel arches mark the car's broadest point – a clear statement of dynamic intent. The resultant 45millimetre-wider front track (1,545 mm) and full 80 millimetres of extra width at the rear axle (1,593 mm) promise – before so much as a wheel is turned – further improvements in the already superlative sporting characteristics for which BMW is renowned.

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Eye-catching front end with prominently sporting contours.

Signature BMW front-end design features, such as the double-kidney grille and twin circular headlights, identify the BMW 4 Series Coupe as a BMW without the need for a second glance. Indeed, it is undeniably keen to show off its close family ties with the BMW 3 Series. However, the BMW 4 Series Coupe displays a more sporting approach to its work, underlining its dynamic convictions. The car's head-turning front end is a demonstration of precise contours and multifaceted surfaces. The eye-catching full-LED twin headlights (optional), with their hexagonal design, team up with the slightly forward-slanting BMW kidney grille to form a single stylistic unit and strengthen the athletic presence of the BMW 4 Series Coupe on the road. Below the headlight line, the BMW 4 Series Coupe features a large air intake in the front apron. Its extremely width-accentuating design creates the impression of a sporty three-way split. On the far left and right-hand edges of the air intakes are the additional, aerodynamically motivated small vertical apertures for the Air Curtains. These vents improve the airflow around the outside of the front wheels and lead to a reduction in fuel consumption at higher speeds.

Flowing lines shape the elegantly sporty silhouette.

Powerfully taut surfaces and precise, sweeping lines define the athletic outline of the BMW 4 Series Coupe. The gently sloping roofline – a hallmark coupe trait – creates a smooth transition into the rear, stretches the car's overall appearance and elegantly accentuates the sporting profile of the flanks. Added to which, the shallow, homogeneous side window graphic with frameless glass and the signature slimline BMW Hofmeister kink at the trailing edge of the C-pillar generate a dynamic visual tension. Below the windows, the double swage line – made up of two character lines running alongside each other – teams up with the striking door sill line to strengthen the body's dynamic wedge shape. The small, shrinking shadow below the swage line above the rear wheel accentuates the flared rear wing, emphasising the car's dynamic potential and hallmark BMW rear-wheel drive.

Located just rearwards of the BMW 4 Series Coupe's front wheels are Air Breathers designed to reduce drag around the wheel arches. Together, the Air Breathers and Air Curtains underline the sporting character of the car's design and provide tangible evidence of the innovative aerodynamic solutions devised by BMW as part of its BMW EfficientDynamics development strategy.

Prominently flared wheel arches offer a clear window into even greater sporting ability.

The sporting character of the BMW 4 Series Coupe extends into the powerful design of the rear. The prominent horizontal lines and broadly stretched tail

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lights positioned at the outer edges of the rear draw extra attention to the muscular wheel arches and wide track. The sharply angled rear window has a lowering effect on the car's tail and gives the body as a whole an even more powerful look. It also shows off the car's broad shoulders with satisfying clarity. The L-shaped rear lights of the BMW 4 Series Coupe blend harmoniously into the car's overall design. They continue the path of the swage line from the flanks, creating a seamless link to the rear end.

Exclusivity and dynamic intent dominate the interior.

The interior of the BMW 4 Series Coupe blends sporting intent and exclusivity to stylish effect. In the front of the cabin, an approach known as layering – i.e. the clever utilisation of space through the structuring of lines and surfaces into layers – provides a natural canvas for the hallmark BMW driver focus, but is careful not to exclude the front passenger from the action. All the controls central to driving are arranged ergonomically around the driver and give him or her optimum access to all functions. Automatic belt feeders, a Sports steering wheel, crystal-clear circular instruments in black panel look and the freestanding, flatscreen iDrive monitor underline the sense of functional elegance. The iDrive Touch Controller – within easy reach on the centre console – and the optionally fore-and-aft sliding/folding armrest between the front seats add the finishing touches to the cabin's exceptional usability and comfort.

The dynamic horizontal lines of the instrument panel extend into the optional two-tone door and side panel trim, wrapping around the driver and front passenger in an unbroken sweep and lending the interior an engagingly dynamic feel. The interplay of surfaces and lines in the car's side sections also provides an effective showcase for the typically long coupe doors and, through the continuation of the accent strip, creates a visual connection between the front and rear of the interior. In the rear compartment powerfully contoured seats lend further emphasis to the sporting credentials of the BMW 4 Series Coupe. Recessed head restraints and broad, continuously moulded side supports give the rear bench the appearance of two separate seats.

In the interests of maximising the car's variability, the backrest of the BMW 4 Series Coupe's rear seat bench can be folded down, as an option, in a 40:20:40 split and adapted extremely effectively to suit the requirements of the situation at hand. Folding down the centre segment alone creates a large through-loading facility, which can accommodate several pairs of skis or snowboards while still allowing space for four people on board. (A suitable BMW ski and snowboard bag is available from the BMW Accessories range.) The boot can also be opened remotely using the optional Smart Opener as

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part of the Comfort Access feature. Here, a short movement of the foot under the centre of the rear bumper is all it takes to raise the tailgate.

Individual equipment variants.

High-class material combinations, exclusive colours and individual equipment variants boasting unbeatable quality of workmanship define the premium ambience on board the new BMW 4 Series Coupe. As well as the basic trim level, whose material and colour concept accentuates the more classical side of the car's character, customers have a choice of three other equipment combinations and an M Sport package with which to add individual stylistic touches to the car's exterior and interior. The Sport Line, Modern Line and Luxury Line embody different takes on the car's character and set it apart from the basic trim level by adapting the following features: design and colour scheme for the kidney grille and air intakes, exterior mirror caps, Air Breathers and side window graphic, trim strips in the front and rear apron, door sill strips, model badges on the front side panels, range of wheel rims, and a high-gloss black surround for the centre stack in the interior.

Sport Line: The Sport Line adds extra depth to the dynamic repertoire of the BMW 4 Series Coupe with a selection of eye-catching exterior body features in high-gloss black. Added to which, the standard high-gloss black B-pillars and black wrap-around window strip lend the car's sporting character even greater punch. Nine strikingly moulded high-gloss black kidney grille slats in a chrome-coloured surround lend the front end a particularly sporty and alert look. The three black air intakes in the front apron and the likewise gleaming black Air Breathers, meanwhile, draw the eye to the car's aerodynamic features. 18-inch or 19-inch (optional) light-alloy wheels – depending on the model – in twin-spoke design provide an extra dose of sporting theatre. From the rear, the BMW 4 Series Coupe with Sport Line can be identified by the black trim strip level with the rear apron and the black exhaust tailpipe embellishers. Inside the car, the contrast between black and red accents, such as the red trim rings in the inner circle of the instrument dials and red contrast stitching on the sports steering wheel, provides the requisite sporting flair. An optional extended equipment variant including coral red leather sports seats, red door panel trim and a red lower section for the instrument panel can be specified exclusively for the BMW 4 Series to take its sporting ambience to another new level.

Luxury Line: Discreet high-gloss chrome touches lend the exterior of the BMW 4 Series Coupe a particularly elegant and exclusive appeal. 11 intricate kidney grille slats with chrome-coloured fronts and matt black sides, two high-gloss double bridges in the front apron's outer air intakes and chrome-coloured Air Breathers all offer classy touches. The gleaming chrome window

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surround is another visual highlight, while special 18-inch or (optionally) 19-inch light-alloy wheels in multi-spoke design emphasise the extravagance of the Luxury Line. The BMW 4 Series Coupe Luxury Line can be recognised from the rear by a stylish, high-gloss chrome strip in the rear apron and the chrome exhaust tailpipe embellishers. The interior also stands out with various chrome elements, such as the surround for the audio and air conditioning system. High-gloss wood strips, leather seats with distinctive stitching and a choice of two upholstery variants in four classically elegant colours highlight the exclusivity of the Luxury Line. Exclusively available as an option for the BMW 4 Series, Ash Grain anthracite fine wood trim surfaces and a Pearl Gloss Chrome metal inlay round off the Luxury Line features.

Modern Line: High-quality matt chrome exterior trim elements define the contemporary aesthetic of the Modern Line, while the BMW kidney grille with 11 slats in matt chrome, the satinated aluminium Air Breathers, the surrounds for the outer air intakes and the trim strip in the rear apron continue the theme. The standard window surround in satinated aluminium draws attention to the window graphics and blends in seamlessly with the trim elements at the front and rear. 18-inch or (optionally) 19-inch turbine-style light-alloy wheels lend a fresh angle to the exterior design, while the light-coloured dashboard coupled with a steering wheel in dark oyster (both also available in black) create a very special feeling of space. Leather upholstery or cloth-leather combinations in oyster or black, and a choice of four trim surfaces with accent strips in Pearl Gloss Chrome, ensure an appealing interplay between materials.

M Sport package: Customers keen to shine a particularly bright spotlight on the stand-out dynamic qualities of the new BMW 4 Series Coupe will find the M Sport package a tempting proposition. As well as an aerodynamic package, including numerous body components (front apron with large air intake, rear bumper with diffuser, side skirts), and BMW Individual High-gloss Shadow Line trim, the exclusive optional exterior paint shade Estoril Blue metallic ensures an unmistakably sporty appearance and unbeatable road presence – an effect underpinned by 18- or (optionally) 19-inch light-alloy wheels in hallmark M design. Inside the car, features such as M door sill finishers, an M leather steering wheel and an M driver's footrest shape the sporty yet elegant ambience. The driver and front passenger can settle into the Hexagon/Alcantara sports seats with M piping and royal blue contrast stitching offered exclusively as part of the M Sport package. Technical features of this package include M Sport suspension and the optional M Sport brakes in contrasting blue paint finish.

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3. Driving dynamics:

Sporty handling properties underpin an involving driving experience.



The keen dynamics and supreme handling of the new BMW 4 Series Coupe are dominant themes in its engaging driving experience. To satisfy even the most demanding expectations of a sporty coupe, the BMW chassis engineers have pulled out all the stops, allowing the sporty two-door car to give full rein to its talents at any speed and under a variety of conditions. This required another round of improvements to the recognised qualities of its predecessor in terms of precision, lightness and agility, further sharpening the car's profile as a pure driving machine. The new BMW 4 Series Coupe is therefore one of the sportiest series-produced models in the BMW line-up, setting new dynamic standards in its segment.

Hallmark BMW set-up makes the difference.

The new BMW 4 Series Coupe benefits from BMW's customary approach of splitting steering and drive forces between the front and rear axle, which creates the ideal platform for dynamic driving characteristics, impressive directional stability and agile handling. It also has 50:50 weight distribution, which likewise sets it apart from its rivals. When you add to the mix its extremely low centre of gravity, bespoke chassis set-up and intelligent lightweight construction concept, the result is an exceptionally dynamic overall package which will even sate the appetite of customers with a passion for sporty driving.

Significantly lower centre of gravity.

The new BMW 4 Series Coupe has an even clearer sporting brief than the outgoing BMW 3 Series Coupe and displays an immediate road presence to match. This is down in no small part to the longer, 2,810-millimetre wheelbase (+ 50 mm) and wider track – 1,545 millimetres at the front and 1,594 millimetres at the rear (+ 45/+ 80 mm). As standard, the BMW 4 Series Coupe also sits 10 millimetres closer to the asphalt than the latest BMW 3 Series Sedan. This helps to bring the car's centre of gravity down below 500 millimetres, i.e. significantly lower than its predecessor's. As these figures show, new BMW 4 Series Coupe drivers can look forward to an alluring package of assured roadholding, agile handling and enhanced precision and feedback. However, these dynamic qualities do not come at the cost of comfort, confirming the sporting two-door's status as a car equipped to meet the varied challenges of everyday use.

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A rigorous focus on sports performance.

The chassis construction of the new BMW 4 Series Coupe is based on that of the latest BMW 3 Series Sedan, although its springs and damping, axle kinematics and elastokinematics have all been tailored precisely to the hugely engaging character of the new Coupe. Indeed, the chassis engineers have managed to make further improvements to the agility and accuracy offered by the chassis, thanks to modification and fine-tuning of variables such as the camber angle, the track and the roll centre. Last but not least, special body strengthening elements in the front section of the car help to further enhance steering precision and feedback.

Double-joint tie bar front axle with anti-roll bar.

The front axle of the new BMW 4 Series Coupe combines maximum stiffness with minimum weight. Aluminium torque struts, wishbones and swivel bearings bring a substantial reduction in unsprung masses. At the same time, the absence of torque steer allowed the engineers to optimise the kinematics of the double-joint axle in favour of agility and dynamism. Adjusting the position of the control arms in the swivel bearings from their arrangement on the latest BMW 3 Series Sedan gives the car a 19-millimetre lower roll centre, which has a positive effect on driving dynamics. An additional strut between the front axle subframe and body sill creates a stiffer overall connection between the front wheels and the car's main structure, so the transverse forces generated on entry into corners are transferred to the car more directly. The BMW 4 Series Coupe therefore responds far more directly to the driver's steering commands and displays more sporting characteristics and greater agility overall. And that means it threads its way through corners with supreme ease and even greater precision.

Five-link rear axle enhances the car's engaging character.

The rear axle of the new BMW 4 Series Coupe plays a critical role in boosting the car's dynamic ability. But that does not mean comfort has been neglected. This construction is based on the proven five-link concept, and its elastokinematics have been tuned specially for this sports coupe. In addition, extra-wide mounts and supports on the wheel carriers for track and camber, slightly repositioned pivot points, ultra-stiff control arms and axle subframes, and the use of thrust arms to connect the suspension with the body all provide an excellent basis for an extremely sporty and dynamically exceptional overall set-up. The result is precise and assured wheel location, and therefore unbeatable directional stability in any driving situation. Clever aerodynamic features around the rear axle also do their bit for driving dynamics.

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Servotronic as standard, variable sports steering optional.

A standard feature of the new BMW 4 Series Coupe is Electric Power Steering, complete with the Servotronic function providing speed-sensitive power assistance. The system's clearly defined mapping results in sharper steering feel and feedback. Precision, accuracy and direct responses are thus among the steering attributes that help define the Coupe's sporting character, while torque steer is conspicuous only by its absence. The new BMW 4 Series Coupe can be equipped with variable sports steering as an option. This uses different steering ratios depending on the amount of lock applied. Only a small amount of steering effort is required for manoeuvring, for example, while unbeatable tracking and straightline stability at high speeds are guaranteed. There are also benefits for the car's handling attributes, e.g. when lightning-quick evasive manoeuvres are required.

Powerful braking system with lightweight construction.

In keeping with its dynamic performance capability, the new BMW 4 Series Coupe comes equipped with powerful swing-calliper or fixed-calliper brakes and large, inner-vented brake discs. The callipers on the front axle are made from aluminium. As well as boasting low unsprung masses, the brakes also stand out with their outstanding heat tolerance, excellent wet braking performance, ease of use and excellent feel. A brake pad wear indicator and the Brake Drying function are standard on all models.

Intelligent lightweight construction concept and aerodynamic finetuning.

The new BMW 4 Series Coupe's intelligent lightweight construction concept makes a significant contribution to the car's dynamic qualities. The use of high- and ultra-high-strength multi-phase steels and tailored blanks maximises the body's strength, without driving up the weight. Components which are central to rigidity are made from micro-alloyed steels. The body's front end is 60 per cent more rigid than that of the outgoing BMW 3 Series Coupe and so has benefits beyond agility and steering precision alone. Most impressively, the new BMW 4 Series Coupe tips the scales at up to 25 kg less than its predecessor, depending on the engine and equipment specified, despite having grown significantly in terms of dimensions.

The new BMW 4 Series Coupe highlights its aerodynamic qualities with a Cd (drag coefficient) of 0.28. Optimisation measures carried out at the front apron and the rear of the car have earned the two-seater a lift coefficient to match the sporting figures of the current BMW M3 Coupe. Another factor here is the design of the underbody: the aerodynamically optimised structure incorporates smooth panels extending to the sides, under the engine

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compartment shield and around the front section of the exhaust tunnel. Together, they seal the underbody to an unprecedented degree.

Air Curtains and Air Breathers.

The aerodynamic fine-tuning process takes in every area of the body. For example, the now familiar BMW Air Curtains in the front apron generate a veil of air which reduces turbulence – and therefore drag – around the front wheels. The aerodynamically designed wheel arches and the air deflectors in front of them contribute to the dynamic qualities of the new BMW 4 Series Coupe. The new Air Breathers positioned rearwards of the front wheel arches divert some of the air flowing through the wheel arches, thereby reducing air resistance. They work particularly effectively in combination with the Air Curtains.

M Sport suspension, adaptive suspension and M Sport brakes.

The M Sport suspension included as part of the M Sport package can also be ordered separately. It works with a firmer spring/damper set-up and stiffer anti-roll bars, and its kinematics/elastokinematics have also been tweaked to suit the new BMW 4 Series Coupe. M Sport suspension also includes 18-inch or (optionally) 19-inch M light-alloy wheels. Alternatively, customers may prefer to specify adaptive suspension – with its focused sporting set-up and electronically controlled dampers – which adjusts the damper mapping to the road surface and driving situation at hand. The driver can also use the Driving Experience Control switch to vary the basic suspension settings between the more comfortable and the sportier ends of the scale, according to personal preference. For performance-minded customers, BMW offers the M Sport brakes. The team of aluminium fixed callipers (four-piston at the front, two-piston at the rear) and generously sized discs combine extremely low weight with very short stopping distances.

Driving Experience Control switch with ECO PRO mode: extrasporty or economic driving modes at the touch of a button.

The new BMW 4 Series Coupe also offers drivers the ability to give the overall character of the car a sportier or more comfortable edge, depending on the driving situation or their personal preferences. Using the Driving Experience Control switch with ECO PRO mode on the centre console, drivers can select their desired mode – ECO PRO, COMFORT, SPORT or SPORT+ (in conjunction with the Sport Line or M Sport package). Each of these predefined set-ups activates different settings for the relevant powertrain and suspension components.

In SPORT mode, for example, throttle response is even faster and the steering becomes noticeably more direct. If the automatic gearbox is fitted,

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the gearshift points are also altered to provide a significantly sportier drive. Depending on the car's specification, different settings can be selected for the powertrain and chassis components. In SPORT+ mode, the Dynamic Stability Control thresholds are raised and Dynamic Traction Control (DTC) is activated. The electronic limited-slip function for the rear differential can then provide extra-sporty acceleration out of corners or sharp bends.

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4. Powertrain:

Powerful engines maximise dynamic performance.



Owning a coupe reflects a driver's passion for elegant lines, sports performance and high-class dynamics. And the state-of-the-art powertrain technology under the skin of the new BMW 4 Series Coupe ensures it delivers an engaging driving experience that satisfies even the most demanding expectations.

Longitudinally front-mounted, in-line engines sending their power to the rear wheels see BMW putting its faith in a proven and time-honoured drive concept that delivers unbeatable driving pleasure. All the engines available for the new BMW 4 Series Coupe use BMW TwinPower Turbo technology, which combines sporty performance characteristics with exceptional efficiency. Added to which, all the engines meet the EU6 exhaust gas standard. Available from launch are a six-cylinder in-line petrol engine for the BMW 435i Coupe, a four-cylinder petrol unit for the BMW 428i Coupe and a four-cylinder diesel for the BMW 420d Coupe. These state-of-the-art engines not only imbue the BMW 4 Series Coupe with outstanding acceleration and elasticity, they also join forces with the car's intelligent lightweight construction concept to lay on further improvements in driving dynamics and lower fuel consumption.

Power is transferred from engine to road via a six-speed manual gearbox as standard, although all engine variants can also link up with an eight-speed Sports automatic as an option. Both gearboxes work in tandem with the fuel-consumption-reducing Auto Start Stop function. The BMW xDrive intelligent, all-wheel-drive system can be ordered as an option from launch for the two petrol-engine variants.

Elite athlete: six-cylinder in-line engine for the BMW 435i Coupe.

The new BMW 435i Coupe gives full value to performance-minded drivers thanks to a straight-six petrol engine that impresses with instantaneous power delivery, the thirst for revs you would expect from BMW, outstanding refinement and exceptional efficiency. Equipped with High Precision Direct Injection and Valvetronic fully variable valve control, the 3.0-litre engine with aluminium crankcase develops maximum output of 225 kW/306 hp between 5,800 and 6,000 rpm. Peak torque of 400 Nm (295 lb-ft) is generated as low down as 1,200 rpm and remains on tap up to 5,000 rpm. The promise of pure dynamics contained within those figures is made true out on the road.

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The sporting performance characteristics of the potent six-cylinder power unit allow it to accelerate the new BMW 435i Coupe from 0 to 100 km/h (62 mph) in just 5.4 seconds (a mere 4.9 seconds with xDrive) on the way to an electronically limited 250 km/h (155 mph) top speed. The six-cylinder unit belies its impressive performance with extremely low fuel consumption and emissions figures. Average fuel consumption is between 7.9 and 8.1 litres per 100 kilometres (35.8 – 34.9 mpg imp) and $\rm CO_2$ emissions range from 185 to 189 grams per kilometre (EU test cycle, depending on the tyre format specified). And the new BMW 435i Coupe is even more economical when fitted with the optional eight-speed Sports automatic gearbox. Here, the flagship 4 Series Coupe achieves combined fuel consumption of just 7.3 – 7.4 litres per 100 kilometres (38.7 – 38.2 mpg imp), while $\rm CO_2$ emissions are pinned to between 169 and 172 grams per kilometre.

Low in weight, high on performance: the four-cylinder engine for the BMW 428i Coupe.

Spirited power delivery, impressive torque, high maximum revs and low weight are the key qualities of the 2.0-litre four-cylinder turbocharged engine, which fits in seamlessly with the dynamic concept of the new BMW 4 Series Coupe. Here again, BMW's technology package – including High Precision Direct Injection, twin-scroll turbocharging, Double-Vanos variable camshaft control and Valvetronic fully variable valve control – lays on impressive performance potential combined with low fuel consumption and emissions.

The cutting-edge, four-cylinder petrol engine generates maximum output of 180 kW/245 hp at 5,000 – 6,500 rpm and peak torque of 350 Nm (258 lb-ft), which the driver can access between 1,250 and 4,800 rpm. The new BMW 428i Coupe harnesses these sporty performance attributes to sprint from 0 to 100 km/h (62 mph) in 5.9 seconds and has an electronically limited top speed of 250 km/h (155 mph). The engine translates each dab of the accelerator into forward propulsion instantaneously and conjures up compelling power delivery from the moment it spins above idle all the way into the upper regions of its engine speed range along an almost linear curve. The average fuel consumption of the BMW 428i Coupe in the EU test cycle stands at just 6.6 – 6.7 litres per 100 kilometres (42.8 – 42.2 mpg imp), and CO₂ emissions of 154 – 156 grams per kilometre (depending on the tyre format specified) are similarly low. The optional eight-speed Sports automatic gearbox also opens up further potential for fuel savings in the BMW 428i Coupe; combined fuel consumption of between 6.3 and 6.4 litres per 100 kilometres (44.8 – 44.1 mpg imp) and CO₂ emissions of 147 – 149 grams per 100 kilometres represent a compelling proposition.

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Powerful and efficient: the four-cylinder diesel engine in the BMW 420d Coupe.

It is a number of years now since BMW first proved that diesel engines can make an extremely attractive choice of power source for coupes as well. Today, this is a widely recognised truth and diesel engines in no way conflict with the sporting aspirations of this breed of car. The new BMW 420d Coupe sees the latest-generation four-cylinder diesel engine put forward another compelling case with its imposing torque, exceptional refinement and outstanding efficiency – achieved without impinging on the car's involving driving experience. This state-of-the-art diesel unit with composite aluminium crankcase sets a variety of benchmarks. The latest-generation common rail direct injection technology, turbocharger with variable turbine geometry and precise solenoid valve injectors ensure instantaneous throttle response and impressive punch, combined with extremely low fuel consumption and emissions.

With maximum output of 135 kW/184 hp at 4,000 rpm and peak torque reaching 380 Nm (280 lb-ft) between 1,750 and 2,750 rpm, the new BMW 420d Coupe displays an extremely dynamic turn of pace. The sprint from 0 to 100 km/h (62 mph) is dealt with in just 7.5 seconds and the agile diesel can accelerate up to 240 km/h (149 mph) if required. Average fuel consumption of 4.7 - 4.8 litres per 100 kilometres (60.1 – 58.9 mpg imp) and CO_2 emissions between 124 and 126 grams per kilometre (EU test cycle, depending on the tyre format specified) complete the profile of the new BMW 420d Coupe as a powerful and efficient athlete equipped with one of the cleanest and most economical diesel engines in its class.

Six-speed manual gearbox as standard.

Easy gear changes, precise shift travel and optimum gear spacing are the stand-out features of the sporty six-speed manual gearbox for the new BMW 4 Series Coupe. For drivers with sporting tendencies, the interface where the power from the engine is relayed to the drivetrain is key to maximising the car's dynamic performance. The manual gearbox uses its high shift quality to open the door to powerful sprints and rapid, short bursts of speed, and also plays its part in helping to reduce fuel consumption.

Eight-speed Sports automatic available as an option.

Its extra gears, extraordinarily rapid gear changes and outstanding shift comfort make the wonderfully capable, eight-speed automatic gearbox the perfect fit for the dynamic overall concept of the new BMW 4 Series Coupe. With only small increases in rpm between gear changes, the ideal gear is on hand in virtually any situation out on the road. Added to which, a host of innovative technical features and exceptionally high internal efficiency ensure

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that powerful acceleration and assured, short bursts of speed are possible with no additional fuel consumption over the manual gearbox. Last but not least, the eight-speed automatic's intelligent control technology enables extremely fast shift and reaction times and direct downshift capability. Customers with a passion for sporty driving are therefore also extremely well catered for, especially as they can also flick through the gears using paddles on the steering wheel. Drivers can choose between normal and sport modes using the Driving Experience Control switch.

BMW xDrive: intelligent all-wheel drive available as an option.

As an alternative to classical rear-wheel drive, the BMW 435i Coupe and BMW 428i Coupe can also be specified with BMW xDrive intelligent all-wheel drive. As well as sharing all the traditional virtues of all-wheel-drive systems – such as superior traction, unbeatable safety and the optimum transfer of engine power to the road – BMW xDrive also reduces the oversteer or understeer you would normally expect through corners. In the process, it enhances agility and precision, e.g. when turning into corners or when accelerating strongly out of them. The all-wheel-drive system even compensates for abrupt load alterations with effortless ease, allowing it to raise the dynamic qualities of the new BMW 4 Series Coupe to another level.

Available from this autumn: the BMW 420i Coupe, BMW 430d Coupe and BMW 435d Coupe, plus two BMW xDrive options.

In the latter part of the year BMW will add another petrol variant and two powerful sports diesels to the new 4 Series Coupe line-up. The BMW 420i Coupe will develop 135 kW/184 hp and can be combined with BMW xDrive, if desired. The intelligent all-wheel-drive system will also be available from the autumn for the BMW 420d Coupe. Vast reserves of torque and unbeatable efficiency are the signature features of the two six-cylinder diesel engines, bringing an extra dose of dynamic verve to the BMW 4 Series Coupe. The BMW 430d Coupe will produce 190 kW/258 hp and maximum torque of 560 Nm (413 lb-ft). And topping the range will be the BMW 435d Coupe (exclusively available with xDrive). With maximum output reaching 230 kW/313 hp and peak torque of 630 Nm (465 lb-ft), it is poised to set the pace in the world of sporty diesel engines.

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5. BMW EfficientDynamics:

Higher performance, lower fuel consumption.



The engaging driving pleasure available on board the new BMW 4 Series Coupe is a product of outstanding economy as well as impressive dynamics. This is down to the BMW EfficientDynamics development strategy, the results of which are incorporated into virtually every area of the sporty two-door model. In addition to petrol and diesel engines with optimised fuel economy, the new BMW 4 Series Coupe's highly efficient transmissions, intelligent lightweight design, optimised aerodynamics and further efficiency-promoting measures secure its status as a winner not only in terms of sporty and dynamic qualities, but also with regard to its enviable fuel consumption and emissions figures.

State-of-the-art petrol and diesel engines forge a perfect alliance of power and efficiency.

The petrol engines available for the BMW 4 Series Coupe stand out with their exceptional power, free-revving character and refinement, combined with peerless efficiency. To this end, the engines feature a range of innovative technical solutions, brought together into a complete package of technology. They include BMW TwinPower Turbo technology with twin-scroll turbocharging, High Precision Direct Injection, Double-Vanos variable camshaft control and Valvetronic fully variable valve control. In addition, these low-friction engines feature a lightweight, all-aluminium crankcase.

The BMW TwinPower Turbo diesel units also represent the very latest in BMW engine technology. The current line-up of diesels features latest-generation, common rail direct injection, turbocharging and an all-aluminium construction to deliver high torque, smooth running and unsurpassed efficiency. In addition, the diesel engines come equipped with advanced BMW BluePerformance technology, combining a diesel particulate filter and oxidation catalytic converter with a NO_X storage catalyst to ensure the diesel engines already meet the future EU6 emissions standard today.

Optimised power transfer also offers potential for fuel savings: the six-speed manual gearbox and eight-speed Sports automatic.

Both the six-speed manual gearbox and eight-speed Sports automatic stand out with their optimised efficiency, compact construction and reduced weight. In the case of the eight-speed automatic, minimised torque converter slip, high internal efficiency, low friction losses and intelligent transmission control

create substantial potential for fuel savings. New BMW 4 Series Coupes fitted with the automatic gearbox option therefore offer identical or even lower fuel consumption and emissions.

Auto Start Stop, Brake Energy Regeneration, ECO PRO mode, coasting mode and Proactive Driving Assistant.

As standard, the new BMW 4 Series Coupe comes with the Auto Start Stop function, which can also team up with the eight-speed automatic gearbox. Another standard feature is Brake Energy Regeneration, which ensures that – as far as possible – power for the vehicle's electrical system is generated during braking and coasting. ECO PRO mode plays a particularly effective role in helping the BMW 4 Series Coupe driver to maintain an efficient and economical driving style. As well as tweaking the accelerator's responses and the engine management system, ECO PRO mode also reaps the rewards of intelligent energy and climate management. The system gives the driver tips and ideas - tailored to the driving situation at hand - on how to reduce fuel consumption even further through adjustments to his or her responses at the wheel. In conjunction with the optional automatic transmission, a coasting mode is now also available for the first time. In ECO PRO mode, this function decouples the powertrain as soon as the driver backs off the accelerator at speeds between 50 and 160 km/h (approx. 30 – 100 mph), allowing the car to glide along with no engine braking effect and burning minimal fuel. The BMW 4 Series Coupe boasts a further innovation in the form of the Proactive Driving Assistant. Likewise in the interests of reducing fuel consumption, this function advises the driver of the ideal moment to ease off the accelerator when approaching corners and speed-restricted zones as well as towns and roundabouts.

On-demand operation of ancillary units saves energy.

The new BMW 4 Series Coupe's ancillary components also play a role in the car's intelligent energy management. Examples include the on-demand coolant pump, the map-controlled oil pump and the Electric Power Steering system, which only consumes electricity when steering assistance is actually required. The special air conditioning compressor works on the same principle. As soon as the driver switches the air conditioning off, the belt drive to the compressor is disconnected to minimise power drain.

Intelligent lightweight design further reduces fuel consumption and CO₂ emissions.

The use of lightweight materials makes a significant contribution to efficiency and agility, and helps to give BMW cars their impressive dynamic capability. Indeed, intelligent lightweight design can be found in every area of the development process and its reach extends to every component. As well as

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the use of plastics and cutting-edge composite materials, the increased deployment of aluminium components in the engine and chassis construction has also reduced the weight of the corresponding assemblies. The results are impressive: although the new BMW 4 Series Coupe has grown in terms of dimensions, it is up to 25 kilograms lighter than its predecessor.

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6. BMW Connected Drive:



Wide range of mobility services and new driver assistance systems enhance safety and comfort.

BMW ConnectedDrive provides renewed evidence of its technical leadership and underscores the innovative character of the new BMW 4 Series Coupe with new functions and an unmatched combination of standard and optional driver assistance systems and mobility services. The intelligent link-up between passengers, their vehicle and the outside world ensures unbeatable levels of on-board comfort, infotainment and safety.

Navigation System Professional: Touch Controller takes over the reins.

The new generation of the Navigation System Professional impresses with its new design and optimised operating system. It has a significantly greater breadth of functionality and a high-resolution, contrast-rich colour display. The familiar menu navigation has been retained, although extra functions have been added. The graphics of the previous user interface have been completely overhauled and the navigation system's maps given 3D elements. The central Control Display is operated in the familiar way using the ergonomically perfectly positioned iDrive Touch Controller in the centre console, which now has an integral new, touch-sensitive surface and proximity sensor technology for even easier use. Users can now use their finger to write characters into every text input panel on the touchpad can and switch between handwriting and the conventional rotate-and-press method at any time. Plus, the ring cursor in the Navigation System Professional's interactive map can also be moved around using the touchpad. This makes selecting a POI, for example, an intuitive and efficient process.

The smart way to avoid congestion: Real Time Traffic Information (RTTI).

Available as an option, the RTTI (Real Time Traffic Information) system uses the mobile phone network and a SIM card built into the vehicle for ultra-fast transmission of very detailed data. The real time information, which is taken into account when calculating routes and possible diversions, is relayed to the vehicle with unrivalled reliability and precision. RTTI covers motorways and dual carriageways, as well as country roads and main and side roads in urban areas. Data is additionally obtained from local authority traffic management systems to provide precise information on traffic density. Coloured road markings on the map view visualise the current traffic flow states. The

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information is refreshed minute by minute and the updates cover a constantly expanding road network taking in many European countries.

High-res projection in colour: the Head-Up Display.

One of the highlights of the new BMW 4 Series Coupe is the latest-generation full-colour Head-Up Display, which projects key information onto the windscreen in sharp resolution to appear directly in the driver's field of view. Depending on the vehicle specification, not only is the current speed displayed, but speed limits and overtaking restrictions are also flashed up for the driver's benefit, along with navigation instructions and various warning messages. The variety of driver assistance systems available for the new BMW 4 Series Coupe brings the amount of information that can be shown in the Head-Up Display to a whole new level. The intensity of the projections adapts automatically to the light conditions and therefore follows the illumination of the cockpit dials. The precise positioning of the projections on the windscreen can also be adjusted easily using the iDrive Controller.

Driving Assistant Plus warns the driver of a possible collision with pedestrian.

A camera fitted to the rear-view mirror scans the scene in front of the vehicle and uses image processing to detect any people or vehicles within its field of vision. When it recognises a looming risk of collision with the vehicle in front, the system produces an acute audible warning and a visual signal appears in the instrument cluster or the optional Head-Up Display (if specified) to alert the driver that he or she is drawing too close. Should a collision be unavoidable, automatic moderate hazard braking is actuated. And if, during urban journeys in sufficient light conditions, the system detects a potential collision with a pedestrian, it warns the driver in good time and, if necessary, triggers automatic hazard braking. In both cases – in addition to the warnings – the vehicle's brakes are automatically primed for emergency braking and the activation thresholds of the Brake Assist system are lowered. As part of the Driving Assistant Plus option, the Lane Departure Warning system is optionally available.

A system of many talents: Active Cruise Control with Stop & Go function.

The latest development stage of the familiar Active Cruise Control with Stop & Go function (ACC Stop&Go) uses a front-mounted camera on the rear-view mirror in addition to the full-range radar sensors to provide an enhanced interpretation of the traffic situation ahead. When driving in slow-moving traffic or traffic jams, the driver is able to safely move along with the flow of traffic and let the vehicle's automatic systems handle the tasks of stopping, pulling away again and approaching junctions where there are already vehicles

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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 or she is prompted to do so by a two-stage warning. Active Cruise Control with automatic distance control is now available at speeds between 30 km/h and 210 km/h (19 mph and 130 mph). The intelligent cruise control function remains active at speeds above 210 km/h (130 mph).

In conjunction with the Navigation System Professional and Navigation System Business, Speed Limit Info helps to keep the driver informed of the speed limit for the current stretch of road. The front-mounted camera ensures that additional signs or temporary restrictions – at roadworks, for example – are taken into account. Information on speed limits or overtaking restrictions then appears in the instrument cluster or Head-Up Display.

Using sensors and camera monitoring: Lane Change and Lane Departure Warning systems.

Among the convenience and safety-enhancing assistance systems on offer are Lane Change Warning and Lane Departure Warning, with the latter only available as part of the Driving Assistant Plus option. These systems employ radar sensors and camera monitoring to alert drivers to potential collision risks when changing lane or if they veer out of lane unintentionally, and also issue a warning when driving too close to the vehicle ahead.

LED headlights with glare-free High Beam Assistant.

The BMW 4 Series Coupe is available with the option of full-LED headlights (xenon as standard), 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 glare-free High Beam Assistant, Adaptive Headlights with cornering lights and variable headlight distribution, they set the benchmark. With high beam activated, the headlights are partially masked as and when required in order to eliminate the danger of dazzling vehicles as they approach. However, the High Beam Assistant can also adapt to the traffic situation by switching to low beam on one or both sides.

Superb overview not just when parking: Surround View, Side View, Top View and BMW Parking Assistant.

In addition to the rear view camera and Park Distance Control, customers are also able to opt for the Surround View function with Side View and Top View, which provides a bird's-eye view of the BMW 4 Series Coupe and the area around it, enabling the driver to carry out precise manoeuvres in tight spaces. If the car is moving at under 20 km/h (12 mph), the Side View function can additionally be activated to allow the driver to keep an eye on cross-traffic.

Convenience is further enhanced by the BMW Parking Assistant system, which is able to manoeuvre the car into parking spaces parallel to the direction of travel. All the driver has to do is operate the accelerator and brake pedal while the BMW Parking Assistant takes care of the steering.

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

The Active Protection safety package is now even more extensive thanks to the addition of the Attentiveness Assistant. The system's electronics analyse driving behaviour on the basis of various onboard signals. If the system detects an increased frequency in the telltale signs of fatigue build-up, the Control Display prompts the driver to take a break by displaying a coffee cup symbol.

The Active Protection safety package with extended protection measures and the Emergency Call function with automatic vehicle location help passengers to mitigate the consequences of an accident, should the worst come to the worst. Active Protection is activated shortly after the journey begins, ready to pull the driver and front passenger belts tight and close the side windows and sunroof if the car enters a critical pre-crash scenario. If the system detects an impending collision and senses that a crash is unavoidable, the car will be decelerated automatically and held at a standstill with its brakes locked. This significantly reduces the likelihood of – or entirely forestalls – a second collision.

Pure infotainment: further services from BMW ConnectedDrive.

High-performance interface technology provides top-of-the-range infotainment capability that enables the driver and passengers to make extensive use of external mobile phones and music players. Users are furthermore able to access selected products from BMW Online. The latestgeneration Navigation System Professional features a full speech recognition function and optimised voice control system to complete the portfolio of office functions offered by Connected Drive. The dictation function uses the full speech recognition system to enable drivers, for the first time, to dictate text freely and compose short text-based messages simply by saying what they wish to write. Internet-based services, as well as calendar entries and textbased messages, can still be viewed in the Control Display of the iDrive operating system and read out via the Text to Speech function. In addition, passengers can access their personal music library on their smartphone or music player. The BMW Connected app allows in-car use of AUPEO!, web radio and social networks such as Facebook and Twitter, while the My BMW Remote app can be used to lock and unlock the vehicle, for example, or to remotely operate an auxiliary heating system. Finally, information and office services, along with travel and leisure planners using the Google Maps and

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Panoramio services, further increase levels of individual convenience aboard the new BMW 4 Series Coupe.

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7. Specifications.

The new BMW 4 Series Coupe. 428i, 435i.



		BMW 428i Coupe	BMW 435i Coupe
Body			
No. of doors/seats		2/4	2/4
Length/width/height (unladen)	mm	4638 / 1825 / 1362	4638 / 1825 / 1362
Wheelbase	mm	2810	2810
Track, front/rear	mm	1545 / 1594	1545 / 1594
Ground clearance		130	130
Turning circle	m	11.3	11.3
Tank capacity	approx. ltr	60	60
Cooling system incl. heating	ltr	7.2 (7.5)	6.7 (7.2)
Engine oil ¹⁾	ltr	5.75	6.5
Weight, unladen, to DIN/EU	kg	1450/1525 (1470/1545)	1510/1585 (1525/1600)
Max load to DIN	kg	520	520
Max permissible weight	kg	1970 (1990)	2030 (2045)
Max axle load, front/rear	kg	920/1105	970/1120
Max trailer load,	kg	1600 / 745	1700 / 750
braked (12%)/unbraked			
Max roof load/towbar	kg	75 / 75	75 / 75
Luggage comp. capacity	ltr	445	445
Air resistance	c _d x A	0.29 x 2.16	0.30 x 2.16
Engine			
Config./No. of cyls./valves		In-line / 4 / 4	In-line / 6 / 4
Engine technology			gy with Twin-Scroll turbocharger, High variable valve control (Valvetronic)
Effective capacity	cm ³	1997	2979
Bore/stroke	mm	90.1 / 84.0	89.6 / 84.0
Compression ratio	:1	10.0	10.2
Fuel grade		Min. RON 91	Min. RON 91
Output	kW/hp	180 / 245	225 / 306
at	rpm	5000-6500	5800-6000
Torque	Nm	350	400
at	rpm	1250-4800	1200-5000
Electrical System			
Battery/Installation	Ah/-	90 / luggage comp.	90 / luggage comp.
Alternator	A/W	170 / 2380	170 / 2380
Driving Dynamics and Safe	etv		
Suspension, front			axle with displaced camber, small positive
			sation of lateral forces, anti-dive
Suspension, rear Brakes, front			weight steel construction per disc brakes / inner-vented
Brakes, rear			per disc brakes / inner-vented ynamic Traction Control), CBC (Cornering
Driving stability systems	3	Brake Control), DBC (Dynamic Brak	e Control), Dry Braking function, Fading
Safety equipment	Compensation, Start-Off Assistant Standard: airbags for driver and front passenger, side airbags for driver and		
curety equipment	front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt stopper, belt latch tensioner and belt force limiter at the		
			straints at the front, crash sensors, fect Indicator
Steering		Electromechanical rack-ar	nd-pinion power steering (EPS) ptional: Variable Sports Steering
Steering ratio, overall	:1	15.0	15.0
Tyres, front/rear		225/50 R17 94W	225/50 R17 94W
Rims, front/rear		7.5J x 17 light alloys	7.5J x 17 light alloys
		7.55 X 17 light diloys	7.50 × 17 light alloys

			BMW 428i Coupe	BMW 435i Coupe
Transmissio				
Type of gearb	••		Six-speed manual (optional: ei	abt speed automatic)
Gear ratios	JOX	:1	3.498 (4.714)	4.110 (4.714)
Gear ratios	<u> </u>	:1	2.005 (3.143)	2.315 (3.143
		:1	1.313 (2.106)	1.542 (2.106)
	IV	:1	1.000 (1.667)	1.179 (1.667
	V	:1	0.809 (1.285)	1.000 (1.285)
	VI	:1	0.701 (1.000)	0.846 (1.000
	VII	:1	(0.839)	(0.839
	VIII	:1	(0.667)	(0.667
	R	:1	3.187 (3.295)	3.727 (3.295)
Final drive		:1	3.909 (3.154)	3.231 (3.154)
Performance				
Power-to-wei	ght ratio	kg/kW	8.1 (8.2)	6.7 (6.8)
Output per liti	re	kW/l	90.1	75.5
Acceleration	0–100 km/h	S	5.9 (5.8)	5.4 (5.1)
	0–1000 m	S	25.4 (25.6)	24.3 (24.2)
in 4th gear	80-120 km/h	S	5.3 / 6.9 (-)	5.0 / 5.9 (-)
Top speed		km/h	250 (250)	250 (250)
BMW Efficie	entDynamics			
BMW EfficientDynamics, standard features			Brake Energy Regeneration, Elect Auto Start Stop function, Optimum Shift gearbox), ECO PRO mode, intelligent ligh operation of ancillary units, map-controlled warm-up behaviour, tyres with	Indicator (on models with manual tweight construction, on-demand oil pump, final drive with optimised
Fuel Consur				
With standard Urban	ı tyres:	l/100km	0.0 (0.1)	11 1 (10 0)
Extra-urban		1/100km	8.8 (8.1) 5.3 (5.2)	11.1 (10.2) 6.1 (5.5
Combined		1/100km	. ,	•
COmbined CO ₂			6.6 (6.3)	7.9 (7.2)
		g/km	154 (147)	185 (169)
Emission ratir	ıg		EU6	EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight) Figures in brackets apply to automatic transmission

 $^{^{1)}}$ Oil change $^{2)}$ Fuel consumption and CO_2 emissions depend on the selected tyre format

The new BMW 4 Series Coupe. 428i xDrive, 435i xDrive.

	BN	/IW 428i xDrive Coupe	BMW 435i xDrive Coupe
Body			
No. of doors/seats		2/4	214
Length/width/height (unladen)	mm	4638 / 1825 / 1377	4638 / 1825 / 1377
Wheelbase	mm	2810	2810
Track, front/rear	mm	1544 / 1590	1544 / 1590
Ground clearance		145	145
Turning circle	m	11.8	11.8
Tank capacity	approx. ltr	60	60
Cooling system incl. heating	ltr	7.2 (7.5)	6.7 (7.2)
Engine oil ¹⁾	ltr	5.75	6.5
Weight, unladen, to DIN/EU	kg	1540/1615	1590/1665
Max load to DIN	kg	520	520
Max permissible weight	kg	2080	2110
Max axle load, front/rear	kg	980/1115	1030/1120
Max trailer load, braked (12%)/unbraked	kg	1700 / 750	1800 / 750
Max roof load/towbar download	kg	75 / 75	75 / 75
Luggage comp. capacity	ltr	445	445
Air resistance	c _d x A	0.30 x 2.16	0.30 x 2.16
Engine			
Config./No. of cyls./valves		In-line / 4 / 4	In-line / 6 / 4
Engine technology		Precision Direct Injection, fu	ology with Twin-Scroll turbocharger, High Illy variable valve control (Valvetronic)
Effective capacity	cm ³	1997	2979
Bore/stroke	mm	90.1 / 84.0	89.6 / 84.0
Compression ratio	:1	10.0	10.2
Fuel grade		Min. RON 91	Min. RON 91
Output	kW/hp	180 / 245	225 / 306
at	rpm	5000-6500	5800-6000
Torque	Nm	350	400
at	rpm	1250-4800	1200-5000
Electrical System			
Battery/Installation	Ah/–	90 / luggage comp.	90 / luggage comp
Alternator	AW	170 / 2380	170 / 2380
Driving Dynamics and Safe			
Suspension, front	Α	steering roll radius, comp	It axle with displaced camber, small positive ensation of lateral forces, anti-dive
Suspension, rear		Five-link axle in lig	htweight steel construction
Brakes, front		Single-piston swing-ca	alliper disc brakes / inner-vented
Brakes, rear			alliper disc brakes / inner-vented
Driving stability systems	S		OSC incl. ABS and DTC (Dynamic Traction Control), DBC (Dynamic Brake Control),

Alternator	AVVV	17072360	17072300
Driving Dynamics and Safet	v		
Suspension, front	Aluminium double-joint spring strut axle with displaced camber, small positive steering roll radius, compensation of lateral forces, anti-dive		
Suspension, rear		Five-link axle in lightweigh	t steel construction
Brakes, front		Single-piston swing-calliper dis	sc brakes / inner-vented
Brakes, rear		Single-piston swing-calliper dis	sc brakes / inner-vented
Driving stability systems		ndard: xDrive all-wheel drive, DSC incl ontrol), CBC (Cornering Brake Control Dry Braking function, Fading Comp), DBC (Dynamic Brake Control),
Safety equipment	front	Indard: airbags for driver and front pas passenger, head airbags front and re Ill seats with belt stopper, belt tension crash-activated head restraints a Tyre Defect In	ar, three-point inertia-reel seatbelts er and belt force limiter at the front, t the front, crash sensors,
Steering	Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: Variable Sports Steering		
Steering ratio, overall	:1	15.0	15.0
Tyres, front/rear		225/50 R17 94W	225/50 R17 94W
Rims, front/rear		7.5J x 17 light alloys	7.5J x 17 light alloys

			BMW 428i xDrive Coupe	BMW 435i xDrive Coupe
Transmission	<u> </u>			
Type of gearbo	-		Eight-speed	automatic
Gear ratios	<u></u>	:1	4.714	4.714
aca ratios	<u>.</u> II	:1	3.143	3.143
	III	:1	2.106	2.106
	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
	R	:1	3.295	3.295
Final drive		:1	3.154	3.154
Performance				
Power-to-weig	ht ratio	kg/kW	8.6	7.1
Output per litre)	kW/ltr	90.1	75.5
Acceleration	0–100 km/h	S	5.8	4.9
	0–1000 m	S	25.6	24.3
in 4th gear	80-120 km/h	S	-	-
Top speed		km/h	250	250
BMW Efficier	ntDynamics			
BMW EfficientDynamics, standard features			Brake Energy Regeneration, E Auto Start Stop function, ECO PRO mo on-demand operation of ancillary units	de, intelligent lightweight construction,
			with optimised warm-up behaviour,	tyres with reduced roll resistance
Fuel Consum With standard				
Urban		l/100km	8.7	10.8
Extra-urban		l/100km	5.5	5.8
Combined		l/100km	6.7	7.6
CO ₂		g/km	157	178
Emission rating	1		EU6	EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight) Figures in brackets apply to automatic transmission

 $^{^{1)}}$ Oil change $^{2)}$ Fuel consumption and CO_2 emissions depend on the selected tyre format

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The new BMW 4 Series Coupe. 420d.

		BMW 420d Coupe
Body		
No. of doors/seats		2/4
Length/width/height (unladen)	mm	4638 / 1825 / 1362
Wheelbase	mm	2810
Track, front/rear	mm	1545 / 1594
Ground clearance		130
Turning circle	m	11.3
Tank capacity	approx. ltr	57
Cooling system incl. heating	ltr	7.0
Engine oil ¹⁾	ltr	5.2
Weight, unladen, to DIN/EU	kg	1450/1525 (1465/1540)
Max load to DIN	kg	520
Max permissible weight	kg	1970 (1985)
Max axle load, front/rear	kg	925/1100
Max trailer load,	kg	1600 / 745
braked (12%)/unbraked		
Max roof load/towbar	kg	75 / 75
Luggage comp. capacity	ltr	445
Air resistance	c _d x A	0.28 x 2.16
Engine		
Config./No. of cyls./valves		R/4/4
Engine technology	F	BMW TwinPower Turbo technology: turbocharger with variable-inlet geometry, Common Rail direct injection with solenoid valve injectors, max. injection pressure: 1800 bar
Effective capacity	cm ³	
Bore/stroke	mm	84.0 / 90.0
Compression ratio	:1	16.5
Fuel grade		Diesel
Output	kW/hp	135 / 184
at	rpm	4000
Torque	Nm	380
at	rpm	1750 - 2750
Flantinal Contain		
Electrical System	Ah/–	00//
Battery/Installation Alternator	Ani-	90 / luggage comp. 175 / 2450
Alternator	AVVV	17372430
Driving Dynamics and Safe		
Suspension, front		Aluminium double-joint spring strut axle with displaced camber, small positive steering roll radius, compensation of lateral forces, anti-dive
Suspension, rear		Five-link axle in lightweight steel construction
Brakes, front		Single-piston swing-calliper disc brakes / inner-vented
Brakes, rear		Single-piston swing-calliper disc brakes / inner-vented
Driving stability systems	S	Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt stopper, belt tensioner and belt force limiter at the front, crash-activated head restraints at the front, crash sensors, Tyre Defect Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: Variable Sports Steering
Steering ratio, overall	:1	with Servotronic function; optional: variable Sports Steering 15.0
Tyres, front/rear		225/50 R17 94W
Rims, front/rear		7.5J x 17 light alloys
Tarrio, ironaroa		7.55 × 17 light alloys

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			BMW 420d Coupe
Transmission	=		
Type of gearbo	ΟX		Six-speed manual (optional: eight-speed automatic)
Gear ratios	l	:1	4.110 (4.714)
	II	:1	2.248 (3.143)
	III	:1	1.403 (2.106)
	IV	:1	1.000 (1.667)
	V	:1	0.802 (1.285)
	VI	:1	0.659 (1.000)
	VII	:1	(0.839)
	VIII	:1	(0.667)
	R	:1	3.727 (3.295)
Final drive		:1	3.231 (2.813)
Performance			
Power-to-weig	ht ratio	kg/kW	10.7 (10.9)
Output per litre)	kW/ltr	67.7
Acceleration	0–100 km/h	S	7.5 (7.3)
	0–1000 m	S	27.9 (27.7)
in 4th gear	80–120 km/h	S	5.9 / 7.5 (-)
Top speed		km/h	240 (232)
BMW Efficier	ntDvnamics		
BMW EfficientI			Brake Energy Regeneration, Electric Power Steering (EPS),
standard featur		,	Auto Start Stop function, ECO PRO mode, intelligent lightweight construction,
			on-demand operation of ancillary units, final drive
			with optimised warm-up behaviour, tyres with reduced roll resistance
Fuel Consum			
With standard t	tyres:		
Urban		l/100km	5.8 (5.4)
Extra-urban		I/100km	4.1 (4.1)
Combined		l/100km	4.7 (4.6)
CO ₂		g/km	124 (121)
Emission rating			EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight) Figures in brackets apply to automatic transmission

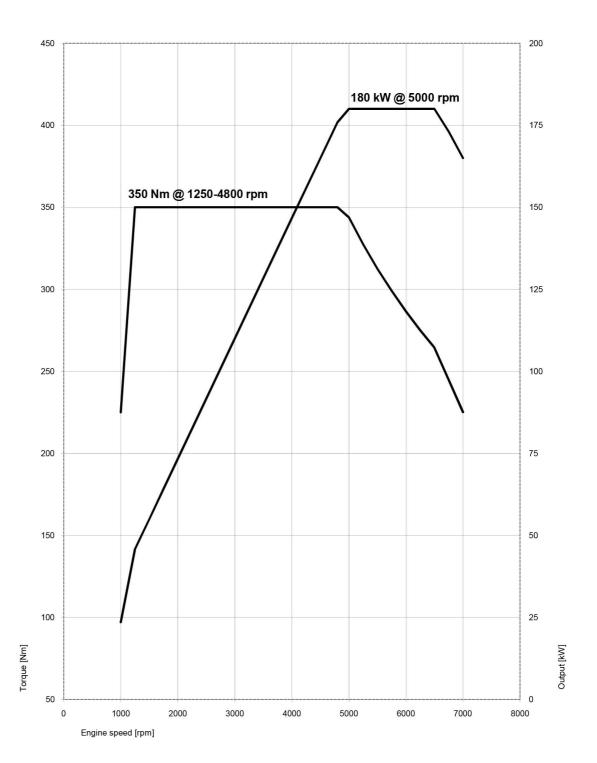
 $^{^{1)}\, \}text{Oil}$ change $^{2)}\, \text{Fuel consumption}$ and CO_2 emissions depend on the selected tyre format

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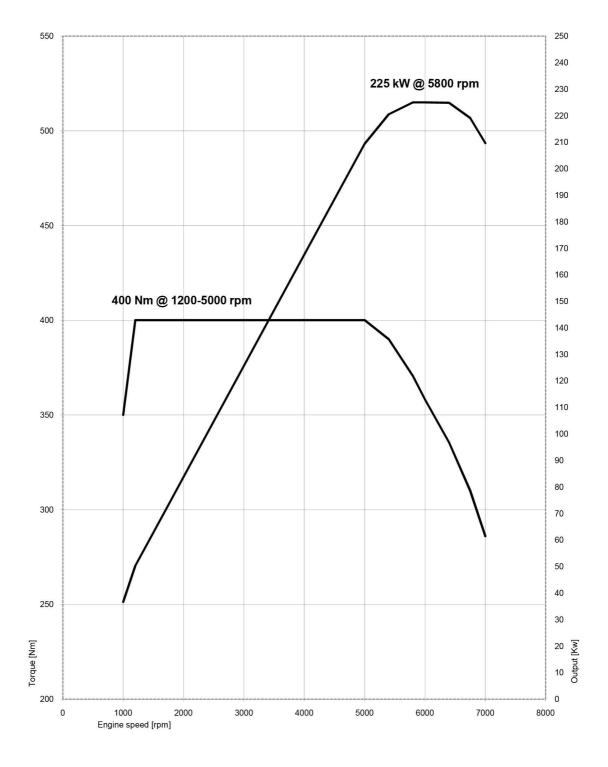
8. Torque and output diagrams. The new BMW 4 Series Coupe.



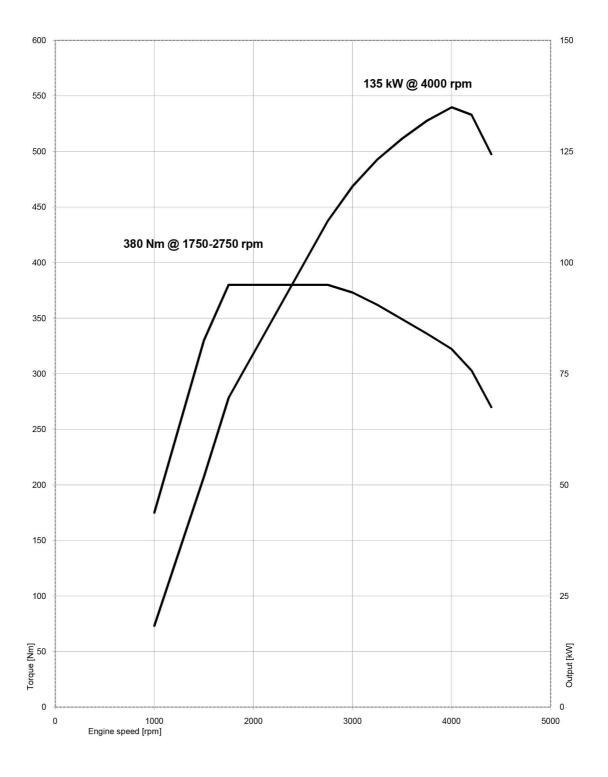
The new BMW 4 Series Co 428i.



The new BMW 4 Series Coupe. 435i.



The new BMW 4 Series Coupe. 420d.



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9. Exterior and interior dimensions.

The new BMW 4 Series Coupe.



