

The new BMW 3 Series Sedan. Contents.



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1. The new BMW 3 Series Sedan.

1.1 Highlights.



- 40 years as the original: with a total of over 14 million examples delivered to customers since its initial introduction, the BMW 3 Series is the biggest-selling BMW of all. Accounting for around 25 per cent of total BMW vehicle sales, the BMW 3 Series Sedan represents the BMW brand's most successful model range.
- Even more dynamic use of forms: the BMW 3 Series Sedan features sharper design and sportier front and rear views. The focused look of the newly designed headlights with LED lighting emphasises the sporting credentials of the BMW 3 Series model range, even from a distance. The rear view also cuts an even more dynamic figure thanks to its LED tail lights and sculptural, clearly defined lines.
- Perceived quality and ergonomics rise to a new level: the interior of the new BMW 3 Series uses new materials and highlights to create an even more premium impression; further improvement in look and feel as well as ergonomics.
- Sporty, agile and comfortable chassis: the BMW 3 Series Sedan has stiffer suspension thanks to further developed damper technology, more rigid bodysHELL mounting and a more finely honed steering set-up.
- Optimised driving dynamics: with further developed damper technology and stiffer suspension, the new BMW 3 Series once again sets new standards in sporty driving dynamics, combined with the same high level of ride comfort.
- Personalisation aided by equipment lines: a broad scope for customisation – with the Sport Line and Luxury Line equipment lines and M Sport package – sets the seal on the dynamic and high-quality character of BMW's bestselling model.
- State-of-the-art navigation system: the intelligent Navigation system Professional with even faster route calculation



1. The new BMW 3 Series Sedan.

1.2 Short version.

The BMW 3 Series is the founder of the modern sports sedan segment and has been fêted as an icon of this vehicle class for 40 years. Over what is now six model generations, the BMW 3 Series has set the standard for dynamic excellence, efficiency and design, forging an emotionally rich connection between a sporting driving experience and unbeatable everyday practicality. Around one in every four BMWs sold is a BMW 3 Series Sedan, which makes this model series the most successful in the BMW brand's line-up. Sharper design, even more advanced technology and cutting-edge engine ensure the new BMW 3 Series Sedan a more attractive proposition than ever before.

Great exterior presence, sophisticated and high-quality interior. The design of the new BMW 3 Series stands out with even greater precision and various detail improvements. At the front end, new aprons with revised air intakes accentuate the feeling of width. The sculptural rear apron design, including a Line-specific trim element, and standard LED rear lights likewise emphasise the car's width and thus its sporting appearance. An innovative lighting concept, featuring newly designed headlights and striking LED daytime driving lights, underlines the car's sporty and powerful visual appeal. LED headlights are now standard. The interior, meanwhile, makes an even classier impression with new materials and additional chrome highlights for the controls, air vents and central control panel. The newly crafted centre console with a sliding cover for the cup holders enables better use of the storage surfaces forward of the gearshift lever and takes the outstanding ergonomics of the BMW 3 Series to an even higher level. A wide range of personalisation options as far as upholstery and interior trim elements are concerned, as well as new wheels, exterior colours and equipment options, round off the specification choices for the new BMW 3 Series.

New Navigation system Professional.

BMW plays a leading role in the link-up of driver, vehicle and outside world. Its BMW ConnectedDrive range of products and services offers a unique selection of web-based services and innovative driver assistance systems designed to enhance comfort and improve safety. For example, the full-colour BMW Head-Up Display in the new BMW 3 Series enables all relevant information to be displayed directly in the driver's field of vision, leaving the motorist to concentrate fully on the road ahead. The Navigation system Professional impresses in city centres, in particular, with quicker start-up, significantly faster route calculation and even more realistic 3D graphics.

2. The latest instalment in an iconic history. Setting the standard for 40 years.



The BMW 3 Series created the modern sporting sedan segment 40 years ago and has since set the pace among its rivals as far as dynamics, efficiency and emotionally rich design are concerned. The latest-generation BMW 3 Series represents another flawless embodiment of this commitment to benchmark excellence.

The original – more attractive than ever before.

Since 1975 the BMW 3 Series has furnished regular evidence of its dynamic ability. Whether in comparison tests, on the race track or in everyday use, it has traditionally set the benchmark in the sporting mid-size segment. The new BMW 3 Series Sedan embodies unbeatable efficiency in its class and combine leading fuel economy with the sporting ability customers expect from a BMW. The cars' dynamic talents are reflected in its looks, which impress with their precision, tautness and elegance. The new BMW 3 Series is the original in its class –and now, with this latest model refresh, it is more attractive than ever before.

From straightforward product to the most important model series in the BMW portfolio.

In 1975 BMW opened the first chapter in a success story destined to endure for decades. The first generation of the BMW 3 Series was referred to by its development code E21, and by 1983 sales of the all-new mid-size model – its four- and six-cylinder engines developing between 55 kW and 105 kW – had reached almost 1.4 million examples. Its successor, the E30, brought with it a new development: the first six-cylinder diesel engine in the expanding sports sedan segment. Additional variants – a four-door model, touring model and Convertible, as well as the introduction of optional all-wheel drive – provided the second generation of the BMW 3 Series with the platform to expand its potential between 1982 and 1994. Next up was the E36 (1990 – 1999), the first BMW 3 Series also available in Coupe form, whose four-cylinder diesel engines further bolstered the model series' status as a segment leader. The E46 generation (1998 – 2006) managed to increase performance yet also make more efficient use of diesel through the introduction of common rail direct injection. In 2005 the fifth-generation BMW 3 Series arrived in the shape of the E90, with efficiency and dynamics once again noticeably

enhanced. The introduction of the EfficientDynamics package of measures in 2007 enabled BMW to further strengthen its leading position in this area.

A success story on race tracks as well as roads around the world.

The BMW 3 Series has also illustrated its sporting pretensions through numerous successes in motor sport competition down the years. The first BMW M3, for example – a sports version of the E30 with distinctive flared front wings – was designed as a homologation model for the German DTM touring car race series and went on to epitomise the family-friendly sports car. The BMW M3 duly won the World Touring Car Championship in 1987, its very first season in race competition. This and numerous other championship titles, plus countless race victories, make the Group A E30 BMW M3 the world's most successful touring car to date. Four victories in a row at the 24-hour race at the Nürburgring-Nordschleife, backed up by another eight wins recorded by the subsequent generation on the world's toughest race track (including back-to-back one-two finishes in 2004 and 2005) tell you all you need to know.

The 3 Series – the heart of the BMW brand.

With its sporty dynamics and outstanding efficiency, the BMW 3 Series sets the benchmark in driving pleasure. This is also reflected in the sales success of the mid-size BMW: since it was first launched in 1975, over 14 million BMW 3 Series cars have been delivered worldwide – and the Sedan and Touring today account for around 25 per cent of total BMW vehicle sales. The BMW 3 Series therefore embodies the heart of the BMW brand more than any other model.

The new BMW 3 Series continues the successful history of this model series and is committed to building on its leading role in the mid-size sports segment. In sports sedan guise, it has brought together highly attractive, dynamic design with exceptional dynamics, efficiency and unbeatable practicality for four decades.

3. Design and equipment. **The segment founder – even higher quality, even greater presence.**

The eye-catching looks of the new BMW 3 Series imbue it with a striking presence on the road. The distinctively sculpted long bonnet and set-back passenger compartment team up with the short front and rear overhangs and long wheelbase to create the extremely dynamic proportions that are as much a hallmark of BMW as ideal 50:50 weight distribution. Precisely designed headlights further emphasise the dynamic credentials of the BMW 3 Series, while the powerful rear end of the Sedan, complete with a clearly defined new lighting design, underlines their sporting appearance to excellent effect.

Individuality and personality.

Revised headlights provide an even more vivid visual showcase for the dynamic flair of the new BMW 3 Series. LED indicators now positioned as “eyebrows” above the headlights and integrated in noticeably more horizontal form give the LED headlights a look of even greater concentration. These light strips highlight the hallmark BMW twin headlight arrangement and create a stylistic link between the headlight units and the BMW kidney grille. They give the car a clear road presence in daylight, too, and ensure a strong recognition value both from a distance and in the dark.

New width-enhancing effect and stronger visual presence.

Broader side air intakes in the front apron gives the new BMW 3 Series Sedan an even stronger stylistic presence. This powerful appearance is further underlined by the strikingly sculptural and precise form of the bumpers..

The rear end with its sporty design also impresses with its likewise highly sculptural, clearly defined lines. The newly designed rear lights are full-LED units. The light bars, arranged in a distinctive BMW “L” shape and now more heavily curved, lend greater dynamic presence to the rear end of the car even when it is stationary. Added to which, the integrated LED brake lights raise safety another notch thanks to their faster responses. The two-piece LED indicators form a horizontal band of light across both sections of the rear lights and provide extremely even and consistent light. They stretch into the boot lid and underline the car’s sporty looks. The wider, Line-specific trim element on the rear apron lends additional emphasis to this dynamic appearance. The Line badge on the car’s front side panels is now more three-dimensional in design.



The sporting appearance of the new BMW 3 Series is underlined visually and functionally by a new range of wheels.

High-quality interior, unimpeachable ergonomics.

The interior faithfully reflects the dynamic and elegant lines of the sporty BMW 3 Series model range. The cockpit's driver focus is a signature BMW feature and provides optimum access to all the important functions. The outstanding ergonomics of the BMW 3 Series have been improved further still and additional, carefully arranged chrome highlights and high-gloss surfaces give the interior an even classier look.

The central control panel in the centre console comes in high-gloss black. It also features an ambient lighting surround and is imbued with an even greater feeling of quality by additional chrome applications. Chrome accents make the newly designed controls for the electric seat adjustment, for example, clearer to the eye. Moreover, their improved form and feel allow them to be used even more intuitively. Chrome applications are also a feature of the electric window controls and air vents, bringing added high-quality accents to the interior. In cars with the Luxury Line, Sport Line or M Sport package specified, the accent strip in the instrument panel continues expansively into all four doors, emphasising the generous levels of space for the passengers and providing a classy ambience. The cupholders in the centre console add another practical feature and now have a sliding cover. An additional practical storage area for items such as a smartphone is positioned forward of the cupholders.

Lines enable further individualisation.

The Sport Line and Luxury Line equipment lines lend the new BMW 3 Series an individual character of their own, while the M Sport package offers additional options designed to further increase road presence and driving pleasure.

Among the features of the M Sport package are the M aerodynamic package, an M leather steering wheel, M Sport suspension and front sports seats, the anthracite-coloured BMW Individual headliner and the Driving Experience Control switch with additional Sport+ mode. This seriously sporty equipment variant is also available with the new leather upholstery options with accents.

Customers can choose from a total of 8 exterior colours for their new BMW 3 Series. New additions to the range include striking Mediterranean Blue metallic, Platinum Silver metallic and Jatoba metallic. The Estoril Blue metallic shade is still reserved exclusively for cars equipped with the M Sport package.

4. Powertrain and chassis. Raising the benchmark – even sportier, even more efficient.



The BMW 3 Series has symbolised driving enjoyment combined with frugal fuel consumption for the past 40 years. Now the new BMW 3 Series Sedan are raising the bar yet again. The BMW 320d are now sourced from the newly developed, modular BMW EfficientDynamics engine family and are equipped with the latest BMW TwinPower Turbo technology, which combines exceptional performance with excellent fuel efficiency.

All members of the new modular engine family share a common design blueprint, with an in-line cylinder arrangement, a displacement per cylinder of 500 cc and very lightweight, thermally optimised all-aluminium construction. The crankcase is very rigid due to its closed-deck design – which means that the cylinder water jacket is closed at the top – while thermally joined, high-strength cylinder liners with twin-wire, arc-sprayed coating save weight and reduce internal friction. All the engines, furthermore, have a very short warm-up phase, which leads to significantly reduced fuel consumption.

The four-cylinder engines have balancer shafts for smooth performance throughout the engine speed range. The uncompromising modular design is also reflected in standardised interfaces for the engine mounts and the connections to the cooling system, intake and exhaust systems as well as the heating and air conditioning system.

Efficiently optimised performance.

All the engines in the new BMW EfficientDynamics engine family are equipped with the latest generation of BMW's innovative TwinPower Turbo technology. With their highly efficient performance optimisation, based on BMW's globally pioneering TwinPower Turbo technology, the new engines in the new BMW 3 Series Sedan models are once again segment leaders on performance and fuel efficiency.

Brawny diesel engine with frugal fuel consumption.

Big efficiency improvements have also been achieved on the optimised four-cylinder diesel units, which belong to the same new modular family as the petrol engines. The latest improvements are down to BMW TwinPower Turbo technology, with VNT turbocharging and high-pressure common rail direct injection. The output of the new BMW 320d – which benefits from further improvements in internal friction and responsiveness through the use of anti-friction bearings instead of plain bearings – has risen beyond that of its predecessor model (up from 135 kW/184 hp to 140 kW/190 hp at 4,000 rpm). CO₂ emissions, meanwhile, have been reduced by more than nine per cent.

With its powerful torque of 400 Nm (295 lb-ft), which is on stream between 1,750 and 2,500 rpm, the new BMW 320d Sedan with eight-speed Steptronic transmission returns a 0 – 100 km/h (62 mph) time of 7.2 seconds, two tenths of a second less than the previous BMW 320d Sedan. The new BMW 320d achieves a top speed of 230 km/h (143 mph), but generates CO₂ emissions of just 106 g/km*.

New automatic transmission.

The new eight-speed Steptronic transmission, like the six-speed unit, also plays an important part in reducing CO₂ emissions. Its improved efficiency, wider gear spread and reduced torque converter slip during gear shifts reduce CO₂ emissions by three per cent. At the same time, improved damping of engine irregularities make for improved comfort and smoother shifting. Sporty drivers will also enjoy the eight-speed Steptronic transmission. In Sport+ transmission mode, it allows the driver to rev the engine right up to the rev limiter, and also to perform multiple sequential downshifts. For even greater driving pleasure, the eight-speed Steptronic Sport transmission is available with steering wheel paddle shifters.

Further economy benefits are offered by the eight-speed Steptronic transmission's coasting mode. When the driver lifts off the throttle at higher speeds, for example on a gentle downhill grade on the motorway, the engine is automatically decoupled from the powertrain. It then simply ticks over in neutral, which saves fuel and ensures there is no unwanted engine braking at high speed. A further fuel-saving feature, which also improves driving comfort, is the new Proactive Driving Assistant, which uses information from the navigation system to "anticipate" upcoming roundabouts, corners and junctions and select exactly the right time to change gear.

Sporty, agile and comfortable suspension.

The BMW 3 Series has been the benchmark in driving dynamics for generations. The new BMW 3 Series Sedan has stiffer suspension thanks to further developed damper technology, more rigid bodyshell mounting and a more finely honed steering set-up. This results in significantly enhanced dynamic capabilities without any compromise on ride comfort. The retuned suspension improves both transverse and longitudinal dynamics under all payload conditions. This is expressed in reduced roll, unwavering directional stability and an exceptionally high level of steering precision.

5. **BMW EfficientDynamics.** **Superb performance, exceptionally low fuel consumption.**



The driving enjoyment offered by the new BMW 3 Series Sedan model is based not just on excellent performance but also on excellent fuel economy – a combination achieved with the help of the trailblazing BMW EfficientDynamics package. New, more fuel-efficient diesel engines, mated with further improved automatic transmissions, Auto Start Stop, Brake Energy Regeneration, on-demand operation of ancillary units and the ECO PRO mode, ensure that the new BMW 3 Series not only delivers typical BMW sporty performance but also benchmark fuel consumption and emissions.

High-tech engines offer superior efficiency.

The innovative engines powering the new BMW 3 Series offer exceptional power, typical BMW fast-revving performance and superb refinement, coupled with maximum efficiency. The combination of turbocharging and latest-generation common rail direct injection, with maximum injection pressures of 2,000 bar, ensures impressive torque and refinement combined with unsurpassed efficiency

Optimised transmissions and intelligent energy management. The newly developed automatic transmissions also play an important role in reducing fuel consumption and emissions. The transmission feature optimised efficiency, compact design and low weight, and are able to support a relaxed, low-rev and extra-fuel-efficient driving style. Further potential for savings is offered by the intelligent transmission control strategy. Amongst other things, a Proactive Driving Assistant (for models fitted with the eight-speed Steptronic transmission) uses navigation data to work out in advance where the driver will have to slow down on the upcoming route and adapts the powertrain strategy accordingly. It also passes on appropriate recommendations to the driver, if desired.

All the new BMW 3 Series Sedan models are equipped as standard with the Auto Start Stop function and Brake Energy Regeneration. Further savings are offered by intelligent energy management for the ancillary units. This includes the on-demand coolant pump, electronically controlled oil pump and electromechanical power steering that consumes no electrical power when steering straight ahead. Also, whenever the air conditioning is not being used, its compressor is automatically disconnected.

Further fuel-saving measures include the ECO PRO mode, selectable using the Driving Experience Control switch, the ECO PRO Route navigation feature and the coasting function which disconnects the engine if the driver lifts off the throttle at higher speeds. The engine then idles in neutral, consuming less fuel.

6. **BMW ConnectedDrive.** **Optimum connectivity and intelligent driver assistance systems.**



BMW has been setting the standard for connectivity between human, car and the outside world for many years now. With yet more new functions added to the unrivalled combination of mobility services and driver assistance systems, BMW ConnectedDrive is providing another impressive demonstration of its pioneering abilities in the new BMW 3 Series range, while once again ensuring supreme safety, comfort and infotainment.

The latest-generation Navigation system Professional boasts quicker start-up, even faster route calculation along with more realistic 3D visualisation in cities. The navigation system is also adaptive, so that when the driver deliberately deviates from a suggested route several times the system will start to propose the new “learned” route as the standard one for reaching the selected destination

Head-Up Display: information in the driver’s immediate field of view.

A full-colour, high-resolution Head-Up Display is available on the 320d M Sport for the new BMW 3 Series. All relevant information, such as speed, navigation instructions, speed limits and overtaking bans, appears here in an optimum position in the driver’s field of view.

7. Specifications. BMW 320d Sedan.

BMW 320d Sedan

Body

No of doors/seats		4/5
Length/width/height (unladen)	mm	4633/1811/1429
Wheelbase	mm	2810
Track, front/rear	mm	1543/1583
Ground clearance	mm	140
Turning circle	m	11.3
Fuel tank capacity	approx. ltr	57
Cooling system incl heater	ltr	n.b.
Engine oil ¹⁾	ltr	5.0
Weight, unladen, to DIN/EU	kg	1430/1505 (1450/1525)

Max load to DIN	kg	575
Max permissible weight	kg	2005 (2025)
Max axle load, front/rear	kg	925/1145
Max trailer load,	kg	1600/745
Braked (12%/unbraked)		(1800/745)

Max roofload/max towbar download	kg	75/75
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Luggage comp capacity	ltr	480
Air resistance	C _d x A	0.26 x 2.20

Power Unit

Config/No of cyls/valves		In-line/4/4
Engine technology		BMW TwinPower Turbo technology: variable-geometry turbocharger, Common-Rail Direct Injection
Effective capacity	cc	1995
Stroke/bore	mm	90.0/84.0
Compression ratio	:1	16.5
Fuel		Diesel
Max output	kW/hp	140/190
at	rpm	4000
Max torque	Nm/lb-ft	400/295
at	rpm	1750-2500

Battery / installation	Ah/-	90/ Luggage compartment
Alternator	A/W	150/2100

Driving Dynamics and Safety

Suspension, front	Aluminium double-joint spring strut axle with displaced camber, small positive steering roll radius, transverse force compensation, anti-dive	
Suspension, rear	Five-link axle in lightweight construction	
Brakes, front	Single-piston floating-calliper disc brakes / vented	
Brakes, rear	Single-piston floating-calliper disc brakes / vented	
Driving stability systems	Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), networked with xDrive all-wheel-drive system in Integrated Chassis Management (320d xDrive), 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 for front and rear seats, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter at the front seats, crash sensors, tyre defect indicator	
Steering	Electric Power Steering (EPS) optional: Variable Sport Steering	
Steering ratio, overall	:1	15.0
Tyres, front/rear	205/60 R16 92W	
Rims, front/rear	7.0J x 16 light alloy	

BMW 320d Sedan

Transmission

Type of transmission	8-speed Steptronic		
Gear ratios	I	:1	4.110 (5.000)
	II	:1	2.248 (3.200)
	III	:1	1.403 (2.143)
	IV	:1	1.000 (1.720)
	V	:1	0.802 (1.314)
	VI	:1	0.659 (1.000)
	VII	:1	--- (0.822)
	VII	:1	--- (0.640)
	R	:1	3.727 (3.456)
Final drive		:1	3.154 (2.813)

Performance

Power-to-weight ratio		kg/kW	10.2 (10.4)
Output per litre		kW/ltr	70.2
Acceleration	0–100 km/h	sec	7.3 (7.2)
In 5th gear	80–120 km/h	sec	7.5 (-)
Top speed		km/h	235 (230)

BMW EfficientDynamics

BMW EfficientDynamics standard features	Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, differential with optimised warm-up behaviour, tyres with reduced rolling resistance
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Fuel Consumption ECE²⁾

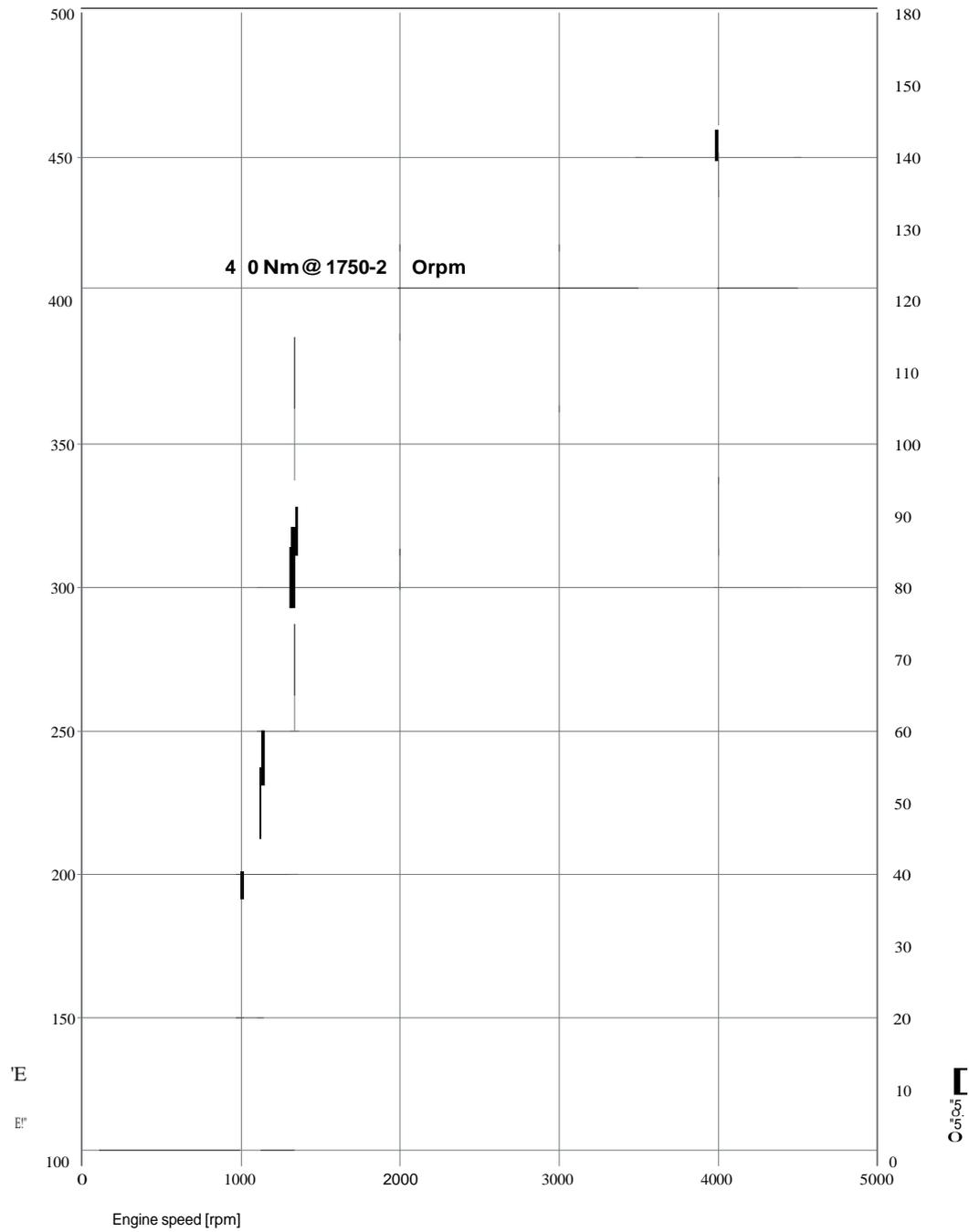
Urban	ltr/100 km	5.3–4.9 (5.2–4.8)
Extra-urban	ltr/100 km	3.9–3.5 (3.9–3.6)
Combined	ltr/100 km	4.4–4.0 (4.4–4.0)
CO ₂	g/km	116–106 (116–106)
Emission rating		EU6

Specifications apply to ACEA markets/data relevant to homologation apply in part only to Germany (weight)
Figures in brackets apply to models with automatic transmission

¹⁾ Oil change

²⁾ Fuel consumption and CO₂ emissions depend on the selected tyre forma

8. Output and torque diagram. BMW320d.



9. Exterior and interior dimensions. The new BMW 3 Series Sedan.

