

# Specifications BMW 5 Series Sedan. 520d, 525d



	<b>BMW 520d</b>		<b>BMW 525d</b>
<b>Body</b>			
No of doors/seats		4 / 5	4 / 5
Length/width/height <sup>1)</sup> (unladen)	mm	4899 / 1860 / 1464	4899 / 1860 / 1464
Wheelbase	mm	2968	2968
Track, front/rear	mm	1600 / 1627	1600 / 1627
Ground clearance	mm	141	141
Turning circle	m	11.95	11.95
Tank capacity	app ltr	70	70
Cooling system incl heater	ltr	7.0	8.0
Engine oil <sup>2)</sup>	ltr	5.2	5.2
Weight, unladen, to DIN/EU	kg	1620 / 1695 (1625 / 1700)	1645 / 1720 (1650 / 1725)
Max load to DIN	kg	610	610
Max permissible	kg	2230 (2235)	2255 (2260)
Max axle load, front/rear	kg	1060 / 1275	1100 / 1280
Max trailer load (12%), braked/unbraked	kg	2000 / 750	2000 / 750
Max roofload/max towbar downl	kg	100 / 90	100 / 90
Luggage comp capacity	ltr	520	520
Air resistance	Cd x A	0.28 x 2.35	0.28 x 2.35
<b>Engine</b>			
Config/No of cyls/valves		Straight-four / 4	Straight-four / 4
Engine technology		BMW TwinPower Turbo technology with variable-geometry turbocharger, Common Rail direct injection with piezo injectors (max. injection pressure: 1800 bar)	BMW TwinPower Turbo technology with two turbochargers (Variable Twin Turbo), Common Rail direct injection with piezo injectors (max. injection pressure: 1800 bar)
Capacity, effective	cc	1995	1995
Stroke / bore	mm	90.0 / 84.0	90.0 / 84.0
Compression ratio	:1	16.5	16.5
Fuel grade		Diesel	Diesel
Max output	kW/hp	135 / 184	160 / 218
at	rpm	4000	4400
Max torque	Nm	380	450
at	rpm	1750-2750	1500-2500
<b>Electrical System</b>			
Battery/installation	Ah/-	90 / luggage comp	90 / luggage comp
Alternator	A/W	180 / 2520	180 / 2520
<b>Driving Dynamics and Safety</b>			
Suspension, front		Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive	
Suspension, rear		Integral-V multi-arm axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation	
Brakes, front		Single-piston aluminium swing-calliper disc brakes in frame structure	
Diameter	mm	330 x 24 / inner-vented	348 x 30 / inner-vented
Brakes, rear		Single-piston swing-calliper disc brakes	
Diameter	mm	330 x 20 / inner-vented	330 x 20 / inner-vented
Driving stability systems		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; optional: Dynamic Damper Control	
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 belts on all seats with belt stopper, belt tightener and belt force limiter at the front, crash-activated headrests at the front, crash sensors, Tyre Defect Indicator	
Steering		Electric Power Steering (EPS) with Servotronic; optional: Integral Active Steering	
Steering transmission, overall	:1	17.1	17.1
Tyres, front/rear		225/55 R17 97W	225/55 R17 97W
Rims, front/rear		8J x 17 light-alloy	8J x 17 light-alloy

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8/2011

Valid from  
9/2011

		<b>BMW 520d</b>	<b>BMW 525d</b>	
<b>BMW ConnectedDrive</b>				
Comfort		Opt: BMW Assist including Enquiry Service, remote-control functions, Real-Time Traffic Information, BMW TeleServices, integration of mobile terminals		
Infotainment		Opt: Internet, BMW Online incl Parkinfo, National Info, Google Local Search, News, Realtime Weather, BMW Routes, Office Functions, Bluetooth Audio Streaming, Online Update Music Tracks, Apps		
Safety		Optional: Adaptive Headlights with Bending Lights, variable light distribution and adaptive headlight range control, High-Beam Assistant, Park Distance Control, back-up camera, Surround View including Side View and Top View, BMW Night Vision with detection of persons, Head-Up Display, Parking Assistant, collision warning with brake activation function in combination with Active Cruise Control with Stop & Go, Lane Change Warning, Lane Departure Warning, Speed Limit Info, Active Protection, Automatic/Enhanced Emergency Call		
<b>Transmission</b>				
Type of gearbox		Six-speed manual (optional: eight-speed automatic with Steptronic)		
Gear ratios	I	: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	3.385 (2.929)	
<b>Performance</b>				
Power-to-weight ratio	kg/kW	12.0 (12.0)	10.3 (10.3)	
Output per litre	kW	67.7	80.2	
Acceleration	0–100 km/h	sec	8.1 (8.1)	
	Standing-start	sec	28.8 (28.8)	
	in 4th gear	80–120 km/h	sec	6.9 (–)
Top speed	km/h	227 (225)	243 (239)	
<b>BMW EfficientDynamics</b>				
BMW EfficientDynamics, standard features		Brake Energy Regeneration with recuperation display, Auto Start Stop function, gearshift point indicator (on manual gearbox models), ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, air flap control, Electric Power Steering (EPS), detachable a/c compressor, tyres with reduced roll resistance		
<b>Fuel consumption EU<sup>3)</sup></b>				
With standard wheels and tyres: 8J x 17 wheels, 225/55 R17 tyres (2K1)				
Urban	ltr/100 km	5.7 (5.7)	6.2 (5.6)	
Extra-urban	ltr/100 km	4.2 (4.1)	4.3 (4.3)	
Combined	ltr/100 km	4.8 (4.7)	5.0 (4.8)	
CO <sub>2</sub>	g/km	125 (123)	132 (126)	
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres (2HM, 2K2, 931)				
Urban	ltr/100 km	5.8 (5.8)	6.4 (5.8)	
Extra-urban	ltr/100 km	4.3 (4.3)	4.5 (4.4)	
Combined	ltr/100 km	4.9 (4.8)	5.2 (4.9)	
CO <sub>2</sub>	g/km	128 (127)	136 (130)	
With 8J x 18 wheels at front, 9J x 18 at rear and 245/45 R18 tyres at front, 275/40 R18 at rear (2AH, 2DC, 2NC), With 8.5J x 19 wheels at front, 9J x 19 at rear and 245/40 R19 tyres at front, 275/35 R19 at rear (2K3, 2WC, 2MZ, 2ND), With 8.5J x 20 wheels at front, 9J x 20 at rear and 245/35 R20 tyres at front, 275/30 R20 at rear (2H9)				
Urban	ltr/100 km	5.9 (5.9)	6.6 (5.9)	
Extra-urban	ltr/100 km	4.4 (4.3)	4.5 (4.5)	
Combined	ltr/100 km	4.9 (4.9)	5.3 (5.0)	
CO <sub>2</sub>	g/km	130 (129)	138 (132)	
Emission rating		EU5	EU5	

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

<sup>1)</sup> Height with roof aerial: 1475 mm

<sup>2)</sup> Oil change

<sup>3)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format