

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



BMW 520d xDrive		BMW 525d xDrive
Body		
No of doors/seats	4 / 5	4 / 5
Length/width/height ¹⁾ (unladen)	mm 4907 / 1860 / 1464	4907 / 1860 / 1464
Wheelbase	mm 2968	2968
Track, front/rear	mm 1600 / 1627	1600 / 1627
Ground clearance	mm 141	141
Turning circle	m 12.1	12.1
Tank capacity	app ltr 70	70
Cooling system incl heater	ltr 7.0	7.0
Engine oil ²⁾	ltr 5.2	5.2
Weight, unladen, to DIN/EU	kg 1730 / 1805	1765 / 1840
Max load to DIN	kg 600	600
Max permissible	kg 2330	2365
Max axle load, front/rear	kg 1170 / 1300	1170 / 1320
Max trailer load (12%), braked/unbraked	kg 2000 / 750	2000 / 750
Max roofload/max towbar download	kg 100 / 90	100 / 90
Luggage comp capacity	ltr 520	520
Air resistance	Cd x A 0.25 x 2.35	0.26 x 2.35
Engine		
Config/No of cyls/valves	Straight-four / 4	Straight-four / 4
Engine technology	BMW TwinPower Turbo technology: variable-geometry turbocharger, Common Rail direct injection with solenoid valve injectors (max. injection pressure: 1800 bar)	BMW TwinPower Turbo technology with variable-geometry multi-stage high-pressure turbocharger, Common Rail direct injection with piezo injectors (max. injection pressure: 2000 bar)
Capacity, effective	cc 1995	1955
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
Electrical System		
Battery/installation	Ah/– 90 / luggage comp	90 / luggage comp
Alternator	A/W 180 / 2520	180 / 2520
Driving Dynamics and Safety		
Suspension, front	Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive	
Suspension, rear	Integral-V multi-arm axle, aluminium, anti-squat and anti-dive, double acoustic separation	
Brakes, front	Single-piston aluminium floating-calliper disc brakes in frame structure	
Diameter	mm 330 x 24 / inner-vented	348 x 30 / inner-vented
Brakes, rear	Single-piston aluminium floating-calliper disc brakes	
Diameter	mm 330 x 20 / inner-vented	330 x 20 / inner-vented
Driving stability systems	Standard: DSC incl ABS and Dynamic Traction Control (DTC), Cornering Brake Control (CBC), Dynamic Brake Control (DBC), Dry Braking function, Fading Compensation, Start-Off Assistant, linked to xDrive all-wheel-drive system in Integrated Chassis Management (ICM); 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	Hydraulic rack-and-pinion power steering with Servotronic	
Steering transmission, overall	:1 17.9	17.9
Tyres, front/rear	225/55 R17 97W	
Rims, front/rear	8J x 17 light-alloy	8J x 17 light-alloy

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Transmission				
Type of gearbox		Eight-speed automatic with Steptronic		
Gear ratios	I	:1	4.714	4.714
	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	3.077	3.077
Performance				
Power-to-weight ratio (DIN)	kg/kW	12.8		11.0
Output per litre	kW	67.7		80.2
Acceleration	0–100 km/h	sec	8.1	7.0
	0-1000 m	sec	29.1	27.6
in 4th gear	80–120 km/h	sec	–	–
Top speed	km/h	228		240
BMW EfficientDynamics				
BMW EfficientDynamics, standard features		Brake Energy Regeneration with recuperation display, Auto Start Stop function, ECO PRO mode with coasting function, intelligent lightweight construction, on-demand operation of ancillary units, air flap control, detachable a/c compressor, efficiency-optimised rear differential and power divider, tyres with reduced roll resistance, BMW BluePerformance technology		
Fuel consumption EU ³⁾				
With standard wheels and tyres: 8J x 17 wheels, 225/55 R17 tyres				
Urban	ltr/100 km	5.7		5.8
Extra-urban	ltr/100 km	4.4		4.6
Combined	ltr/100 km	4.9		5.1
CO ₂	g/km	129		133
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres				
Urban	ltr/100 km	5.9		6.1
Extra-urban	ltr/100 km	4.6		4.8
Combined	ltr/100 km	5.1		5.3
CO ₂	g/km	134		138
With 8J x 18 wheels at front, 9J x 18 at rear and 245/45 R18 tyres at front, 275/40 R18 at rear				
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				
With 8.5J x 20 wheels at front, 9J x 20 at the rear and 245/35 R20 tyres at front, 275/30 R20 at the rear				
Urban	ltr/100 km	6.2		6.3
Extra-urban	ltr/100 km	4.8		5.0
Combined	ltr/100 km	5.3		5.4
CO ₂	g/km	139		143
Emission rating		EU6		EU6

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

¹⁾ Height with roof aerial: 1475 mm

²⁾ Oil change

³⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format