

Specifications BMW 5 Series Sedan. 518d, 520d



		BMW 518d	BMW 520d
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	12.0	12.0
Tank capacity	app ltr	70	70
Cooling system incl heater	ltr	7.0	7.0
Engine oil ²⁾	Ltr	5.0	5.0
Weight, unladen, to DIN/EU	kg	1615 / 1690 (1625 / 1700)	1620 / 1695 (1630 / 1705)
Max load to DIN	kg	610	610
Max permissible weight	kg	2225 (2235)	2230 (2240)
Max axle load, front/rear	kg	1060 / 1275	1060 / 1275
Max trailer load (12%), braked/unbraked	kg	1800 (2000) / 750	1800 (2000) / 750
Max roofload/max towbar download	kg	100 / 90	100 / 90
Luggage comp capacity	ltr	520	520
Air resistance	Cd x A	0.26 x 2.35	0.25 x 2.35
Engine			
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 solenoid valve injectors (max. injection pressure: 2000 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	110 / 150	140 / 190
at	rpm	4000	4000
Max torque	Nm	360	400
at	rpm	1750 – 2500	1750 – 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, with steering function, 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	330 x 24 / 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 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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Transmission				
Type of gearbox		6-speed manual (optional: 8-speed Steptronic)		
Gear ratios	I	:1	4.110 (5.000)	4.110 (5.000)
	II	:1	2.248 (3.200)	2.248 (3.200)
	III	:1	1.403 (2.143)	1.403 (2.143)
	IV	:1	1.000 (1.720)	1.000 (1.720)
	V	:1	0.802 (1.314)	0.802 (1.314)
	VI	:1	0.659 (1.000)	0.659 (1.000)
	VII	:1	– (0.822)	– (0.822)
	VIII	:1	– (0.640)	– (0.640)
	R	:1	3.727 (3.456)	3.727 (3.456)
Final drive		:1	3.231 (2.929)	3.077 (2.929)
Performance				
Power-to-weight ratio (DIN)		kg/kW	14.7 (14.8)	11.6 (11.6)
Output per litre		kW	55.1	70.2
Acceleration	0–100 km/h	sec	9.5 (9.4)	7.9 (7.7)
	0–1000 m	sec	30.3 (30.6)	28.4 (28.4)
in 5th gear	80–120 km/h	sec	9.9 (–)	8.9 (–)
Top speed		km/h	218 (216)	236 (233)
BMW EfficientDynamics				
BMW EfficientDynamics, standard features		Brake Energy Regeneration with recuperation display, Auto Start Stop function, gearshift point indicator (on manual gearbox models), ECO PRO mode with coasting function (on automatic models), 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, BMW BluePerformance technology		
Fuel Consumption EU ³⁾				
With standard wheels and tyres: 8J x 17 wheels, 225/55 R17 tyres				
Urban	ltr/100 km		5.1 (4.9)	5.1 (4.9)
Extra-urban	ltr/100 km		3.9 (3.8)	3.9 (3.7)
Combined	ltr/100 km		4.3 (4.2)	4.3 (4.1)
CO ₂	g/km		114 (110)	114 (109)
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres				
Urban	ltr/100 km		5.3 (5.1)	5.3 (5.1)
Extra-urban	ltr/100 km		4.1 (4.0)	4.1 (3.9)
Combined	ltr/100 km		4.5 (4.4)	4.5 (4.3)
CO ₂	g/km		119 (115)	119 (114)
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 rear and 245/35 R20 tyres at front, 275/30 R20 at rear				
Urban	ltr/100 km		5.6 (5.2)	5.6 (5.3)
Extra-urban	ltr/100 km		4.2 (4.2)	4.2 (4.1)
Combined	ltr/100 km		4.7 (4.6)	4.7 (4.5)
CO ₂	g/km		124 (120)	124 (119)
Emission rating		EU6		EU6

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

¹⁾ Height with roof aerial: 1475 mm

²⁾ Oil change

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