

Specifications BMW 5 Series Sedan. 520i, 528i



		BMW 520i	BMW 528i
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	9.1 (9.3)	9.1 (9.3)
Engine oil ²⁾	ltr	5.75	5.75
Weight, unladen, to DIN/EU	kg	1595 / 1670 (1615 / 1690)	1610 / 1685 (1625 / 1700)
Max load to DIN	kg	610	610
Max permissible	kg	2205 (2225)	2220 (2235)
Max axle load, front/rear	kg	1070 / 1280	1070 / 1280
Max trailer load (12%), braked/unbraked	kg	1900 (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 with Twin-Scroll turbocharger, direct injection and fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo with Twin-Scroll turbocharger, direct injection and fully variable valve control (VALVETRONIC)
Capacity, effective	cc	1997	1997
Stroke / bore	mm	90.1 / 84.0	90.1 / 84.0
Compression ratio	:1	10.0	10.0
Fuel grade		Min RON 91	Min RON 91
Max output	kW/hp	135 / 184	180 / 245
at	rpm	5000 – 6250	5000 – 6500
Max torque	Nm	270	350
at	rpm	1250 – 4500	1250 – 4800
Electrical System			
Battery/installation	Ah/–	90 / luggage comp	90 / luggage comp
Alternator	A/W	170 / 2380	170 / 2380
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	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 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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6/2013

Valid from
7/2013

		BMW 520i	BMW 528i
Transmission			
Type of gearbox	Six-speed manual (optional: eight-speed automatic with Steptronic)		
Gear ratios	I	:1	3.683 (4.714)
	II	:1	2.062 (3.143)
	III	:1	1.313 (2.106)
	IV	:1	1.000 (1.667)
	V	:1	0.809 (1.285)
	VI	:1	0.677 (1.000)
	VII	:1	– (0.839)
	VIII	:1	– (0.667)
	R	:1	3.348 (3.295)
Final drive		:1	3.909 (3.231)
Performance			
Power-to-weight ratio (DIN)	kg/kW	11.8 (12.0)	8.9 (9.0)
Output per litre	kW	67.6	90.1
Acceleration	0–100 km/h	sec	7.9 (7.9)
	0–1000 m	sec	29.1 (29.2)
in 4th gear	80–120 km/h	sec	7.5 / 10.5 (–)
Top speed	km/h	235 (233)	250 (250)
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), map-controlled oil pump, detachable a/c compressor, tyres with reduced roll resistance		
Fuel Consumption EU³⁾			
With standard wheels and tyres: 8J x 17 wheels, 225/55 R17 tyres			
Urban	ltr/100 km	8.4 (8.1)	8.8 (8.0)
Extra-urban	ltr/100 km	5.2 (4.7)	5.3 (5.0)
Combined	ltr/100 km	6.4 (6.0)	6.6 (6.1)
CO ₂	g/km	149 (139)	154 (142)
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres			
Urban	ltr/100 km	8.7 (8.4)	9.1 (8.3)
Extra-urban	ltr/100 km	5.4 (4.9)	5.5 (5.1)
Combined	ltr/100 km	6.6 (6.2)	6.8 (6.3)
CO ₂	g/km	154 (144)	163 (147)
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	9.0 (8.6)	9.4 (8.6)
Extra-urban	ltr/100 km	5.5 (5.1)	5.6 (5.3)
Combined	ltr/100 km	6.8 (6.4)	7.0 (6.5)
CO ₂	g/km	159 (149)	164 (152)
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