

Specifications BMW 5 Series Touring. 520i, 528i



BMW 520i Touring		BMW 528i Touring
Body		
No of doors/seats	5 / 5	5 / 5
Length/width/height ¹⁾ (unladen)	mm 4907 / 1860 / 1462	4907 / 1860 / 1462
Wheelbase	mm 2968	2968
Track, front/rear	mm 1600 / 1626	1600 / 1626
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 1710 / 1785 (1730 / 1805)	1715 / 1790 (1735 / 1810)
Max load to DIN	kg 640	640
Max permissible	kg 2350 (2370)	2355 (2375)
Max axle load, front/rear	kg 1070 / 1415	1070 / 1415
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 560 – 1670	560 – 1670
Air resistance	Cd x A ⁴⁾ x 2.35	⁴⁾ 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 (High Precision Injection) and fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo with Twin-Scroll turbocharger, direct injection (High Precision 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, air suspension with automatic self-levelling	
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 97Y
Rims, front/rear	8J x 17 light-alloy	8J x 17 light-alloy

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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	12.7 (12.8)	9.5 (9.6)
Output per litre	kW	67.6	90.1
Acceleration	0–100 km/h	sec	8.3 (8.3)
	0–1000 m km	sec	29.6 (29.7)
in 4th gear	80–120 km/h	sec	8.1 / 11.2 (–)
Top speed	km/h	226 (225)	248 (247)
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 EU ³⁾			
With standard wheels and tyres: 8J x 17 wheels, 225/55 R17 tyres			
Urban	ltr/100 km	8.9 (8.6)	9.3 (8.4)
Extra-urban	ltr/100 km	5.5 (5.0)	5.6 (5.2)
Combined	ltr/100 km	6.7 (6.3)	7.0 (6.4)
CO ₂	g/km	157 (147)	162 (149)
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres			
Urban	ltr/100 km	9.2 (8.9)	9.6 (8.7)
Extra-urban	ltr/100 km	5.7 (5.2)	5.7 (5.4)
Combined	ltr/100 km	7.0 (6.5)	7.2 (6.6)
CO ₂	g/km	162 (152)	167 (154)
With 8,5J x 19 wheels and 245/40 R19 tyres			
Urban	ltr/100 km	9.5 (9.1)	9.9 (9.0)
Extra-urban	ltr/100 km	5.8 (5.3)	5.9 (5.6)
Combined	ltr/100 km	7.2 (6.7)	7.4 (6.8)
CO ₂	g/km	167 (157)	172 (159)
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: 1488 mm

²⁾ Oil change

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

⁴⁾ Data not yet available