

# Specifications BMW 5 Series Touring. 535i, 550i



BMW 535i Touring		BMW 550i Touring
<b>Body</b>		
No of doors/seats	5 / 5	5 / 5
Length/width/height <sup>1)</sup> (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 10.1 (10.2)	11.6
Engine oil <sup>2)</sup>	ltr 6.5	9.0
Weight, unladen, to DIN/EU	kg 1770 / 1845 (1785 / 1860)	1925 / 2000
Max load to DIN	kg 650	630
Max permissible	kg 2420 (2435)	2555
Max axle load, front/rear	kg 1100 / 1400	1195 / 1420
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 <sup>4)</sup> x 2.35	<sup>4)</sup> x 2.35
<b>Engine</b>		
Config/No of cyls/valves	Straight-six / 4	V90 / 8 / 4
Engine technology	BMW TwinPower Turbo technology with Twin-Scroll turbocharger, direct injection (High Precision Injection) and fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo with two turbochargers, direct injection (High Precision Injection) and fully variable valve control (VALVETRONIC)
Capacity, effective	cc 2979	4395
Stroke / bore	mm 89.6 / 84.0	88.3 / 89.0
Compression ratio	:1 10.2	10.0
Fuel grade	Min RON 91	Min RON 91
Max output	kW/hp 225 / 306	350 / 450
at	rpm 5800 – 6000	5500 – 6000
Max torque	Nm 400	650
at	rpm 1200 – 5000	2000 – 4500
<b>Electrical System</b>		
Battery/installation	Ah/– 90 / luggage comp	90 / luggage comp
Alternator	A/W 210 / 2940	210 / 2940
<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, air suspension with automatic self-levelling	
Brakes, front	Single-piston aluminium floating-calliper disc brakes in frame structure	
Diameter	mm 348 x 36 / inner-vented	374 x 36 / inner-vented
Brakes, rear	Single-piston aluminium floating-calliper disc brakes	
Diameter	mm 345 x 24 / inner-vented	345 x 24 / 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, Adaptive Drive	
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 97Y	245/45 R18 96Y RSC
Rims, front/rear	8J x 17 light-alloy	8J x 18 light-alloy

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Transmission				
Type of gearbox		Six-speed manual (optional: eight-speed automatic with Steptronic)		Eight-speed automatic with Steptronic
Gear ratios	I	:1	4.110 (4.714)	4.714
	II	:1	2.315 (3.143)	3.143
	III	:1	1.542 (2.106)	2.106
	IV	:1	1.179 (1.667)	1.667
	V	:1	1.000 (1.285)	1.285
	VI	:1	0.846 (1.000)	1.000
	VII	:1	– (0.839)	0.839
	VIII	:1	– (0.667)	0.667
	R	:1	3.727 (3.295)	3.317
Final drive		:1	3.231 (3.077)	2.647
Performance				
Power-to-weight ratio (DIN)	kg/kW		7.9 (7.9)	5.8
Output per litre	kW		75.5	75.1
Acceleration	0–100 km/h	sec	5.8 (5.8)	4.7
	0–1000 m	sec	25.3 (25.7)	23.5
in 4th gear	80–120 km/h	sec	6.1 / 7.3 (–)	–
Top speed	km/h		250 (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 EU <sup>3)</sup>				
With standard wheels and tyres: 8J x 17 wheels, 225/55 R17 tyres				
Urban	ltr/100 km		11.2 (10.3)	12.3
Extra-urban	ltr/100 km		6.3 (5.8)	6.9
Combined	ltr/100 km		8.1 (7.5)	8.8
CO <sub>2</sub>	g/km		188 (174)	206
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres				
Urban	ltr/100 km		11.5 (10.6)	–
Extra-urban	ltr/100 km		6.4 (6.0)	–
Combined	ltr/100 km		8.3 (7.7)	–
CO <sub>2</sub>	g/km		193 (179)	–
With 8,5J x 19 wheels and 245/40 R19 tyres				
Urban	ltr/100 km		11.8 (10.9)	12.7
Extra-urban	ltr/100 km		6.6 (6.2)	7.1
Combined	ltr/100 km		8.5 (7.9)	9.1
CO <sub>2</sub>	g/km		198 (184)	213
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

<sup>1)</sup> Height with roof aerial: 1488 mm

<sup>2)</sup> Oil change

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

<sup>4)</sup> Data not yet available