

Specifications BMW 5 Series Sedan. 535i, 550i



BMW 535i		BMW 550i
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 10.1 (10.2)	11.6
Engine oil ²⁾	ltr 6.5	9.0
Weight, unladen, to DIN/EU	kg 1675 / 1750 (1690 / 1765)	1830 / 1905
Max load to DIN	kg 610	600
Max permissible	kg 2285 (2300)	2430
Max axle load, front/rear	kg 1100 / 1285	1195 / 1315
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 0.26 x 2.35	0.27 x 2.35
Engine		
Config/No of cyls/valves	Straight-six / 4	V90 / 8 / 4
Engine technology	BMW TwinPower Turbo, with Twin-Scroll turbocharger, direct fuel injection (High Precision Injection) and fully-variable valve control (VALVETRONIC)	BMW TwinPower Turbo with two turbochargers, direct fuel 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
Electrical System		
Battery/installation	Ah/– 90 / luggage comp	90 / luggage comp
Alternator	A/W 170 / 2380	210 / 2940
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 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 97W	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)	2.813
Performance				
Power-to-weight ratio (DIN)		kg/kW	7.4 (7.5)	5.5
Output per litre		kW/hp	75.5	75.1
Acceleration	0–100 km/h	sec	5.8 (5.7)	4.6
	0–1000 m	sec	25.1 (25.5)	23.5
In 4th gear	80–120 km/h	sec	5.9 / 6.9 (–)	–
Top speed		km/h	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), 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 (BMW 535i), 8J x 18 wheels, 245/45 R18 tyres (BMW 550i)				
Urban		ltr/100 km	11.0 (10.0)	11.8
Extra-urban		ltr/100 km	6.2 (5.6)	6.6
Combined		ltr/100 km	8.0 (7.2)	8.6
CO ₂		g/km	186 (169)	199
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres				
Urban		ltr/100 km	11.3 (10.3)	–
Extra-urban		ltr/100 km	6.3 (5.8)	–
Combined		ltr/100 km	8.2 (7.5)	–
CO ₂		g/km	191 (174)	–
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	11.6 (10.6)	12.3
Extra-urban		ltr/100 km	6.5 (6.0)	6.9
Combined		ltr/100 km	8.4 (7.7)	8.8
CO ₂		g/km	196 (179)	206
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