

Specifications BMW 5 Series Sedan. M550d xDrive



BMW M550d xDrive		
Body		
No of doors/seats		4 / 5
Length/width/height ¹⁾ (unladen)	mm	4910 / 1860 / 1454
Wheelbase	mm	2968
Track, front/rear	mm	1594 / 1599
Ground clearance	mm	131
Turning circle	m	12.1
Tank capacity	app ltr	70
Cooling system incl heater	ltr	12.6
Engine oil ²⁾	ltr	6.5
Weight, unladen, to DIN/EU	kg	1880 / 1955
Max load to DIN	kg	580
Max permissible	kg	2460
Max axle load, front/rear	kg	1240 / 1130
Max trailer load (12%), braked/unbraked	kg	2000 / 750
Max roofload/max towbar download	kg	100 / 90
Luggage comp capacity	ltr	520
Air resistance	Cd x A	0.30 x 2.35
Engine		
Config/No of cyls/valves		Straight-six / 4
Engine technology		M Performance TwinPower Turbo technology with three turbochargers, multi-stage turbocharging, variable-geometry, Common Rail direct injection with piezo injectors (max. injection pressure: 2200 bar)
Capacity, effective	cc	2993
Stroke / bore	mm	90.0 / 84.0
Compression ratio	:1	16.0
Fuel grade		Diesel
Max output	kW/hp	280 / 381
at	rpm	4000 – 4400
Max torque	Nm	740
at	rpm	2000 – 3000
Electrical System		
Battery/installation	Ah/–	90 / luggage comp
Alternator	A/W	220 / 3080
Driving Dynamics and Safety		
Suspension, front		Double track control arm axle with separate lower track arm level, aluminium, M-specific damping and suspension tuning, small steering roll radius, anti-dive
Suspension, rear		Integral-V multi-arm axle, aluminium, double acoustic separation, M-specific damping and suspension tuning, anti-squat and anti-dive
Brakes, front		Single-piston aluminium floating-calliper disc brakes in frame structure
Diameter	mm	374 x 36 / inner-vented
Brakes, rear		Single-piston aluminium floating-calliper disc brakes
Diameter	mm	345 x 24 / inner-vented
Driving stability systems		Standard: DSC incl ABS and Dynamic Traction Control (DTC), Cornering Brake Control (CBC), Dynamic Brake Control (DBC), Dry Braking function, Fading Compensation, Start-Off Assistant, linked to xDrive all-wheel-drive system in Integrated Chassis Management (ICM); optional: 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 tightener and belt force limiter at the front, crash-activated headrests at the front, crash sensors, run-flat tyres, Tyre Defect Indicator
Steering		Hydraulic rack-and-pinion power steering with M-specific Servotronic
Steering transmission, overall	:1	17.9
Tyres, front/rear		245/40 R19 94Y RSC 275/35 R19 96Y RSC
Rims, front/rear		8.5J x 19 light-alloy 9J x 19 light-alloy

6/2013

Valid from
7/2013

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Transmission			
Type of gearbox			
Gear ratios	I	:1	4.714
	II	:1	3.143
	III	:1	2.106
	IV	:1	1.667
	V	:1	1.285
	VI	:1	1.000
	VII	:1	0.839
	VIII	:1	0.667
	R	:1	3.317
Final drive		:1	2.813
Performance			
Power-to-weight ratio (DIN)	kg/kW		6.7
Output per litre	kW		93.6
Acceleration	0–100 km/h	sec	4.7
	0–1000 m	sec	23.7
in 4th gear	80–120 km/h	sec	–
Top speed	km/h		250
BMW EfficientDynamics			
BMW EfficientDynamics, standard features	Brake Energy Regeneration with recuperation display, Auto Start Stop function, ECO PRO mode with coasting function, intelligent lightweight construction, on-demand operation of ancillary units, air flap control, detachable a/c compressor, efficiency-optimised rear differential and power divider, tyres with reduced roll resistance, BMW BluePerformance technology		
Fuel Consumption EU			
Urban	ltr/100 km		7.5
Extra-urban	ltr/100 km		5.4
Combined	ltr/100 km		6.3
CO ₂	g/km		165
Emission rating			EU6

Specifications applicable to ACEA markets. data relevant to homologation applicable in part only to Germany (weight)

¹⁾ Height with roof aerial: 1465 mm

²⁾ Oil change

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