

Specifications.

BMW 5 Series Sedan.

540d xDrive



BMW 540d xDrive Sedan

Body

No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	4936 / 1868 / 1479
Wheelbase	mm	2975
Front/rear track	mm	1605 / 1630
Ground clearance	mm	139
Turning circle	m	12.22
Fuel capacity	approx. l	66
Engine oil capacity ¹⁾	l	6.5
Weight, unladen (DIN/EU)	kg	1750 / 1825
Payload (DIN)	kg	690
Permitted total weight	kg	2440
Permitted axle load, front/rear	kg	1200 / 1325
Permitted trailer load (12%) braked/unbraked	kg	2000 / 750
Permitted roof load/trailer download	kg	100 / 90
Luggage compartment capacity	l	530
Aerodynamic drag	cx x A	0.25 x 2.35

Engine

Type/no. of cylinders/valves		in-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: multi-stage charging, high and low pressure turbocharger with variable-geometry, Common Rail direct injection with piezo injectors (max. injection pressure: 2500 bar)
Effective capacity	cc	2993
Stroke/bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel type		Diesel
Output	kW/hp	235 / 320
at rpm	min ⁻¹	4400
Torque	Nm	680
at rpm	min ⁻¹	1750 – 2250

Electrical

Battery charge/location	Ah/-	90 / luggage compartment
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Driving Dynamics and Safety

Front suspension	Aluminium double track control arm axle with separate lower track arm level, small steering roll radius, traverse force compensation, anti-dive
Rear suspension	Five-link axle in aluminium lightweight construction, double elastic bearing
Front brakes	Four-piston fixed-calliper disc brakes / vented
Rear brakes	Single-piston floating-calliper disc brakes / 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, linked to xDrive all-wheel drive; Optional: Dynamic Damper Control, Adaptive Drive
Safety equipment	Standard: driver and front-seat passenger airbags, driver and front-seat passenger side airbags, head airbags front and rear, three-point automatic seatbelts for all seats, seatbelt tensioners and seatbelt force limiters in front seats, crash sensors, tyre pressure indicator
Steering	Electromechanical rack-and-pinion power steering (EPS); optional: Integral Active Steering
Overall steering ratio	:1 16.3
Front/rear tyres	225/55 R17 97Y
Front/rear wheels	7,5J x 17 light-alloy

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Transmission

Type of gearbox	8-speed Steptronic		
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.313
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.478
Differential ratio		:1	2.563

Performance

Weight-to-power ratio (DIN unladen)		kg/kW	7.4
Specific power output		kW/l	78.5
Acceleration	0–100 km/h	sec	4.7
in 5th gear	80–120 km/h	sec	–
Max. speed		km/h	250

BMW EfficientDynamics

BMW EfficientDynamics Features included as standard	Brake Energy Regeneration with recuperation display, electric power steering (EPS), Auto Start Stop function, gear shift indicator, ECO PRO mode with coasting function an Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential and power divider with optimized-warm-up behaviour, tyres with reduced rolling resistance, BMW Blue Performance Technology
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Fuel consumption (EU) ²⁾

with standard wheels and tyres, also with 8J x 18 wheels and 245/45 R18 tyres		
Urban	l/100 km	6.4
Extra-urban	l/100 km	4.6
Combined	l/100 km	5.2
CO ₂ emissions	g/km	138
With 8J x 18 wheels (front), 9J x 18 (rear) and 245/45 R18 tyres (front), 275/40 R18 (rear), with 8J x 19 wheels an 245/40 R19 tyres.		
with 8J x 19 wheels (front), 9J x 19 (rear) and 245/40 R19 tyres (front), 275/35 R19 (rear), with 8J x 20 wheels (front), 9J x 20 (rear) and 245/35 R20 tyres (front), 275/30 R20 (rear) and with runflat tyres		
Urban	l/100 km	6.5
Extra-urban	l/100 km	4.8
Combined	l/100 km	5.4
CO ₂ emissions	g/km	143
With winter tyres		
Urban	l/100 km	6.6
Extra-urban	l/100 km	5.0
Combined	l/100 km	5.6
CO ₂ emissions	g/km	147
Emissions standard		EU6

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

¹⁾ Height including roof aerial

²⁾ Oil change volume

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