

# Specifications.

## BMW 5 Series Sedan.

### 520i



<b>BMW 520i Sedan</b>		
<b>Body</b>		
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	144
Turning circle	m	12.05
Fuel capacity	approx. l	68
Engine oil capacity <sup>1)</sup>	l	5.25
Weight, unladen (DIN/EU)	kg	1530 / 1605
Payload (DIN)	kg	660
Permitted total weight	kg	2200
Permitted axle load, front/rear	kg	1045 / 1250
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	0.24 x 2.35
<b>Engine</b>		
Type/no. of cylinders/valves		in-line / 4 / 4
Engine technology		BMW TwinPower Turbo technology: twin-scroll turbocharger, direct injection system High Precision Injection, fully variable valve control (VALVETRONIC) and double VANOS variable camshaft timing
Effective capacity	cc	1998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel type		min RON 91
Output	kW/hp	135 / 184
at rpm	min <sup>-1</sup>	5000 – 6500
Torque	Nm	290
at rpm	min <sup>-1</sup>	1350 – 4250
<b>Electrical</b>		
Battery charge/location	Ah/-	90 / luggage compartment
<b>Driving Dynamics and Safety</b>		
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. 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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<b>Transmission</b>			
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	1.314
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.456
Differential ratio		:1	2.929
<b>Performance</b>			
Weight-to-power ratio (DIN unladen)		kg/kW	11.3
Specific power output		kW/l	67.6
Acceleration	0–100 km/h	sec	7.8
in 5th gear	80–120 km/h	sec	–
Max. speed		km/h	235
<b>BMW EfficientDynamics</b>			
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 with optimized-warm-up behaviour, tyres with reduced rolling resistance		
<b>Fuel consumption (EU) <sup>2)</sup></b>			
with standard wheels and tyres, also with 8J x 18 wheels and 245/45 R18 tyres			
Urban		l/100 km	6.9
Extra-urban		l/100 km	4.6
Combined		l/100 km	5.4
CO <sub>2</sub> emissions		g/km	124
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	7.1
Extra-urban		l/100 km	4.8
Combined		l/100 km	5.6
CO <sub>2</sub> emissions		g/km	129
With winter tyres			
Urban		l/100 km	7.2
Extra-urban		l/100 km	5.1
Combined		l/100 km	5.9
CO <sub>2</sub> emissions		g/km	134
Emissions standard			EU6

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

<sup>1)</sup> Height including roof aerial

<sup>2)</sup> Oil change volume

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