



Specifications.

The new BMW 5 Series Sedan.

523i, 528i. (Not for US Market)

		BMW 523i	BMW 528i
Body			
No of doors/seats		4 / 5	4 / 5
Length/width/height (unladen)	mm	4899 / 1860 / 1464	4899 / 1860 / 1464
Wheelbase	mm	2968	2968
Track, front/rear	mm	1600 / 1627	1600 / 1627
Ground clearance	mm	141	141
Turning circle	m	11.95	11.95
Tank capacity	app ltr	70	70
Cooling system incl heater	ltr	9.0	9.0
Engine oil ¹⁾	ltr	6.5	6.5
Weight, unladen, to DIN/EU	kg	1625 / 1700 (1650 / 1725)	1635 / 1710 (1655 / 1730)
Max load to DIN	kg	610	610
Max permissible	kg	2235 (2260)	2245 (2265)
Max axle load, front/rear	kg	1070 / 1265 (1070 / 1270)	1070 / 1265 (1070 / 1270)
Max trailer load (12%), braked/unbraked	kg	1900 / 750 (2000 / 750)	2000 / 750
Max roofload/max towbar dwnl	kg	100/90	100/90
Luggage comp capacity	ltr	520	520
Air resistance	Cd x A	0.28 x 2.35	0.28 x 2.35
Power Unit			
Config/No of cyls/valves		Straight-six / 4	Straight-six / 4
Engine technology		Direct fuel injection (High Precision Injection), lean-burn	Direct fuel injection (High Precision Injection), lean-burn
Capacity, effective	cc	2996	2996
Stroke / bore	mm	88.0 / 85.0	88.0 / 85.0
Compression ratio	:1	12.0	12.0
Fuel grade		min RON 91	min RON 91
Max output	kW/hp	150 / 204	190 / 258
at	rpm	6100	6600
Max torque	Nm/lb-ft	270/199	310/228
At	rpm	1500-4250	2600-5000
Electrical System			
Battery/installation	Ah/-	80 (90) / luggage comp	80 (90) / luggage comp
Alternator	A/W	210 / 2940	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 swing-calliper disc brakes in frame structure	
Diameter	mm	330 x 24 / inner-vented	348 x 30 / inner-vented
Brakes, rear		Single-piston aluminium swing-calliper disc brakes	
Diameter	mm	330 x 20 / inner-vented	330 x 20 / 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: 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	225/55 R17 97W
Rims, front/rear		8J x 17 light-alloy	8J x 17 light-alloy

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BMW 523i			BMW 528i	
BMW ConnectedDrive				
Comfort		Optional: BMW Assist including Enquiry Service, remote-control functions and V-Info+, BMW TeleServices, integration of mobile terminals		
Infotainment		Optional: access to the internet, BMW Online including Parkinfo, National Info, Google Directory Service, News, Weather Realtime and BMW Routes		
Safety		Optional: Adaptive Headlights with Bending Lights, variable light distribution and adaptive headlight range control, High-Beam Assistant, Park Distance Control, back-up camera, Surround View including Side View and Top View, BMW Night Vision with detection of persons, Head-Up Display, Parking Assistant, collision warning with brake activation function in combination with Active Cruise Control with Stop & Go, Lane Change Warning, Lane Departure Warning, Speed Limit Info, Speed Limit Device, Automatic/Enhanced Emergency Call		
Transmission				
Type of gearbox		Six-speed manual (optional: eight-speed automatic with Steptronic)		
Gear ratios	I	:1	4.323 (4.714)	3.498 (4.714)
	II	:1	2.456 (3.143)	1.984 (3.143)
	III	:1	1.659 (2.106)	1.313 (2.106)
	IV	:1	1.230 (1.667)	1.000 (1.667)
	V	:1	1.000 (1.285)	0.809 (1.285)
	VI	:1	0.848 (1.000)	0.701 (1.000)
	VII	:1	– (0.839)	– (0.839)
	VIII	:1	– (0.667)	– (0.667)
	R	:1	3.938 (3.295)	3.300 (3.295)
Final drive		:1	3.231 (3.385)	4.100 (3.385)
Performance				
Power-to-weight ratio	kg/kW	10.8 (11.0)	8.6 (8.7)	
Output per litre	kW/hp	50.1/68.1	63.4/86.2	
Acceleration 0–100 km/h	sec	7.9 (8.2)	6.6 (6.7)	
Standing-start km	sec	28.5 (29.0)	26.5 (26.6)	
In 4th gear 80–120 km/h	sec	9.0 (–)	7.0 (–)	
Top speed	km/h	238 (234)	250	
BMW EfficientDynamics				
BMW EfficientDynamics, standard features		Brake Energy Regeneration with recuperation display, gearshift point indicator (on manual gearbox 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 Consump in EU Cycle				
Urban	ltr/100	10.5 (10.5)	10.4 (10.4)	
Extra-urban	ltr/100	5.9 (5.9)	6.3 (6.0)	
Combined	ltr/100	7.6 (7.6)	7.8 (7.6)	
CO ₂	g/km	177 (178)	182 (178)	
Emission rating		EU5	EU5	

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⁾ Oil change