

## Specifications BMW 5 Series Sedan. 528i xDrive, 535i xDrive, 550i xDrive



		BMW 528i xDrive	BMW 535i xDrive	BMW 550i xDrive
<b>Body</b>				
No of doors/seats		4 / 5	4 / 5	4 / 5
Length/width/height <sup>1)</sup> (unladen)	mm	4907 / 1860 / 1464	4907 / 1860 / 1464	4907 / 1860 / 1464
Wheelbase	mm	2968	2968	2968
Track, front/rear	mm	1600 / 1627	1600 / 1627	1600 / 1627
Ground clearance	mm	141	141	141
Turning circle	m	12.1	12.1	12.1
Tank capacity	app ltr	70	70	70
Cooling system incl heater	ltr	9.3	10.2	11.4
Engine oil <sup>2)</sup>	ltr	5.75	6.5	8.5
Weight, unladen, to DIN/EU	kg	1710 / 1785	1765 / 1840	1880 / 1955
Max load to DIN	kg	600	600	600
Max permissible	kg	2310	2365	2480
Max axle load, front/rear	kg	1100 / 1290	1170 / 1310	1250 / 1320
Max trailer load (12%), braked/unbraked	kg	2000 / 750	2000 / 750	2000 / 750
Max roofload/max towbar download	kg	100 / 90	100 / 90	100 / 90
Luggage comp capacity	ltr	520	520	520
Air resistance	Cd x A	0.26 x 2.35	0.27 x 2.35	0.29 x 2.35
<b>Engine</b>				
Config/No of cyls/valves		Straight-four / 4	Straight-six / 4	V90 / 8 / 4
Engine technology		BMW TwinPower Turbo with Twin-Scroll turbocharger, direct injection (High Precision Injection) and fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo with Twin-Scroll turbocharger, direct injection (High Precision Injection) and fully variable valve control (VALVETRONIC)	BMW TwinPower Turbo with two turbochargers, direct injection (High Precision Injection) and fully variable valve control (VALVETRONIC)
Capacity, effective	cc	1997	2979	4395
Stroke / bore	mm	90.1 / 84.0	89.6 / 84.0	88.3 / 89.0
Compression ratio	:1	10.0	10.2	10.0
Fuel grade		Min RON 91	Min RON 91	Min RON 91
Max output	kW/hp	180 / 245	225 / 306	350 / 450
at	rpm	5000 – 6500	5800 – 6000	5500 – 6000
Max torque	Nm	350	400	650
at	rpm	1250 – 4800	1200 – 5000	2000 – 4500
<b>Electrical System</b>				
Battery/installation	Ah/–	90 / luggage comp	90 / luggage comp	90 / luggage comp
Alternator	A/W	170 / 2380	210 / 2940	220 / 3080
<b>Driving Dynamics and Safety</b>				
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, anti-squat and anti-dive, double acoustic separation		
Brakes, front		Single-piston aluminium floating-calliper disc brakes in frame structure		
Diameter	mm	330 x 24 / inner-vented	348 x 36 / inner-vented	374 x 36 / inner-vented
Brakes, rear		Single-piston aluminium floating-calliper disc brakes		
Diameter	mm	330 x 20 / inner-vented	345 x 24 / inner-vented	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: Dynamic Damper Control, Adaptive Drive (BMW 535i xDrive, BMW 550i xDrive)		
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		Hydraulic rack-and-pinion power steering with Servotronic		
Steering transmission, overall	:1	17.9	17.9	17.9
Tyres, front/rear		225/55 R17 97W	225/55 R17 97W	245/45 R18 96Y RSC
Rims, front/rear		8J x 17 light-alloy	8J x 17 light-alloy	8J x 18 light-alloy

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6/2013

Valid from  
7/2013

			<b>BMW 528i xDrive</b>	<b>BMW 535i xDrive</b>	<b>BMW 550i xDrive</b>
<b>Transmission</b>					
Type of gearbox			Eight-speed automatic with Steptronic		
Gear ratios	I	:1	4.714	4.714	4.714
	II	:1	3.143	3.143	3.143
	III	:1	2.106	2.106	2.106
	IV	:1	1.667	1.667	1.667
	V	:1	1.285	1.285	1.285
	VI	:1	1.000	1.000	1.000
	VII	:1	0.839	0.839	0.839
	VIII	:1	0.667	0.667	0.667
	R	:1	3.295	3.295	3.317
Final drive		:1	3.231	3.077	2.813
<b>Performance</b>					
Power-to-weight ratio (DIN)	kg/kW		9.5	7.8	5.7
Output per litre	kW		90.1	75.5	75.1
Acceleration	0–100 km/h	sec	6.3	5.6	4.4
	0–1000 m	sec	26.6	25.6	23.3
in 4th gear	80–120 km/h	sec	–	–	–
Top speed	km/h		250	250	250
<b>BMW EfficientDynamics</b>					
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, map-controlled oil pump, detachable a/c compressor, efficiency-optimised rear differential and power divider, tyres with reduced roll resistance				
<b>Fuel Consumption EU<sup>3)</sup></b>					
With standard wheels and tyres					
BMW 528i xDrive, BMW 535i xDrive: 8J x 17 wheels, 225/55 R17 tyres					
BMW 550i xDrive: 8J x 18 wheels and 245/45 R18 tyres					
Urban	ltr/100 km		8.4	10.5	12.7
Extra-urban	ltr/100 km		5.2	5.9	7.1
Combined	ltr/100 km		6.4	7.6	9.2
CO <sub>2</sub>	g/km		149	178	214
With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres					
Urban	ltr/100 km		8.7	10.8	–
Extra-urban	ltr/100 km		5.4	6.1	–
Combined	ltr/100 km		6.6	7.8	–
CO <sub>2</sub>	g/km		154	183	–
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		9.0	11.1	13.0
Extra-urban	ltr/100 km		5.6	6.3	7.2
Combined	ltr/100 km		6.8	8.1	9.3
CO <sub>2</sub>	g/km		159	188	218
Emission rating			EU6	EU6	EU6

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

<sup>1)</sup> Height with roof aerial: 1475 mm

<sup>2)</sup> Oil change

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