$\mathbf{B}\mathbf{M}\mathbf{W}$ Media Information

6/2013

Valid from 7/2013

Specifications BMW 5 Series Sedan. 520d xDrive, 525d xDrive



		BMW 520d xDrive	BMW 525d xDrive		
Body					
No of doors/seats		4/5	4/5		
Length/width/height 1) (unladen)	mm	4907 / 1860 / 1464	4907 / 1860 / 1464		
Wheelbase	mm	2968	2968		
Track, front/rear	mm	1600 / 1627	1600 / 1627		
Ground clearance	mm	141	141		
Turning circle	m	12.1	12.1		
Tank capacity	app ltr	70	70		
Cooling system incl heater	ltr	7.0	7.0		
Engine oil 2)	ltr	5.2	5.2		
Weight, unladen, to DIN/EU	kg	1730 / 1805	1765 / 1840		
Max load to DIN	kg	600	600		
Max permissible	kg	2330	2365		
Max axle load, front/rear	kg	1170 / 1300	1170 / 1320		
Max trailer load (12%),	kg	2000 / 750	2000 / 750		
braked/unbraked					
Max roofload/max towbar downlo	oad kg	100/90	100/90		
Luggage comp capacity	ltr	520	520		
Air resistance	Cd x A	0.25 x 2.35	0.26 x 2.35		
Engine					
Config/No of cyls/valves		Straight-four / 4	Straight-four / 4		
Engine technology		BMW TwinPower Turbo	BMW TwinPower Turbo		
3		technology: variable-	technology with variable-		
		geometry turbocharger,	geometry multi-stage		
		Common Rail direct	high-pressure		
		injection with solenoid	turbocharger, Common		
		valve injectors (max.	Rail direct injection with		
		injection pressure: 1800 bar)	piezo injectors (max.		
		1000 bai)	injection pressure: 2000 bar)		
Capacity, effective	CC	1995			
Stroke / bore	mm	90.0 / 84.0	90.0 / 84.0		
Compression ratio	:1	16.5	16.5		
Fuel grade	• • • • • • • • • • • • • • • • • • • •	Diesel	Diesel		
Max output	kW/hp	135 / 184	160 / 218		
		4000	4400		
at Name to a series	rpm				
Max torque	Nm	380	450		
at	rpm	1750 – 2750	1500 – 2500		
Electrical System					
Battery/installation	Ah/-	00 / luggaga comp	90 / luggage comp		
Alternator	AW	90 / luggage comp 180 / 2520	180 / 2520		
Alternator	AVVV	18072320	18072320		
Driving Dynamics and Safety	,				
Suspension, front	<u> </u>	Double track control arm	axle with separate lower track arm level, aluminium,		
Suspension, none			all steering roll radius, anti-dive		
Suspension, rear		Integral-V multi-arm axle, aluminium, anti-squat and anti-dive, double acoustic separation			
Brakes, front			m floating-calliper disc brakes in frame structure		
Diameter	mm	330 x 24 / inner-vented	348 x 30 / inner-vented		
Brakes, rear	111111		aluminium floating-calliper disc brakes		
Diameter	20.00	330 x 20 / inner-vented	<u> </u>		
	mm				
Driving stability systems	;	Control (CBC), Dynamic Compensation, Start-Off	nd Dynamic Traction Control (DTC), Cornering Brake Brake Control (DBC), Dry Braking function, Fading Assistant, linked to xDrive all-wheel-drive system in agement (ICM); optional: Dynamic Damper Control		
Safety equipment		Standard: airbags for c and front passenger, h inertia-reel belts on all se	river and front passenger, side airbags for driver lead airbags for front and rear seats, three-point leats with belt stopper, belt tightener and belt force h-activated headrests at the front, crash sensors, Tyre Defect Indicator		
Steering		Hydraulic rack-a	nd-pinion power steering with Servotronic		
Steering transmission, overall	:1	17.9	17.9		
Tyres, front/rear		225/55 R17 97W	225/55 R17 97W		
Rims, front/rear		8J x 17 light-alloy	8J x 17 light-alloy		
		SS X 17 light alloy	JOX 17 light-alloy		

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Specifications BMW 5 Series Sedan.

		E	BMW 520d xDrive	BMW 525d xDrive
Transmission	_			
Type of gearbo	-		Eight-speed automatic	with Stantronic
Gear ratios	, I	:1	4.714	4.714
Geal Tatios	<u> </u>	:1	3.143	3.143
		:1	2.106	2.106
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	R	:1	3.295	3.295
Final drive	П	:1	3.077	3.275
Performance				
Power-to-weigh		kg/kW	12.8	11.0
Output per litre)	kW	67.7	80.2
Acceleration	0-100 km/h	sec	8.1	7.0
	0-1000 m	sec	29.1	27.6
in 4th gear	80-120 km/h	sec	_	-
Top speed		km/h	228	240
BMW Efficient BMW Efficient Standard feature	Dynamics,		Energy Regeneration with recuperat O PRO mode with coasting function, i	
BMW Efficient[Dynamics,	ECC		ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with
BMW EfficientE standard featur	Dynamics, res	ECC	O PRO mode with coasting function, i on-demand operation of ancillary units oressor, efficiency-optimised rear diffe	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with
BMW Efficient[standard feature	Dynamics, res	EC(comp	O PRO mode with coasting function, i on-demand operation of ancillary units oressor, efficiency-optimised rear diffe reduced roll resistance, BMW Blu	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with
BMW Efficient[standard feature	Dynamics, res	EC(comp	O PRO mode with coasting function, i on-demand operation of ancillary units oressor, efficiency-optimised rear diffe	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology
BMW Efficient[standard feature fuel consumpt With standard v	Dynamics, res	ECC comp es: 8J x 17 wheels	O PRO mode with coasting function, in characteristics of an expension of ancillary unitable or easily of the produced roll resistance, BMW Blue of the produced roll resistance of the produced ro	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology
BMW Efficient[standard feature standard feature Fuel consump With standard v Urban	Dynamics, res	comp comp es: 8J x 17 wheels ltr/100 km	O PRO mode with coasting function, i on-demand operation of ancillary units oressor, efficiency-optimised rear differ reduced roll resistance, BMW Blue , 225/55 R17 tyres 5.7	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6
BMW EfficientE standard feature Fuel consump With standard v Urban Extra-urban	Dynamics, res	es: 8J x 17 wheels	O PRO mode with coasting function, in condemand operation of ancillary units or essor, efficiency-optimised rear differeduced roll resistance, BMW Blue 225/55 R17 tyres 5.7 4.4	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1
BMW Efficient Estandard feature Fuel consump With standard v Urban Extra-urban Combined CO2	Dynamics, res ption EU³⁾ wheels and tyre	es: 8J x 17 wheels Itr/100 km Itr/100 km g/km	D PRO mode with coasting function, in production of ancillary units pressor, efficiency-optimised rear differeduced roll resistance, BMW Blue 1, 225/55 R17 tyres 5.7 4.4 4.9 129	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1
BMW Efficient Estandard feature Fuel consump With standard v Urban Extra-urban Combined CO2	Dynamics, res ption EU³⁾ wheels and tyre	es: 8J x 17 wheels ltr/100 km ltr/100 km	D PRO mode with coasting function, in production of ancillary units pressor, efficiency-optimised rear differeduced roll resistance, BMW Blue 1, 225/55 R17 tyres 5.7 4.4 4.9 129	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1
Fuel consump With standard v Urban Extra-urban Combined CO ₂ With 8J x 18 wh	Dynamics, res ption EU³⁾ wheels and tyre	es: 8J x 17 wheels ltr/100 km ltr/100 km g/km 45 R18 tyres and	D PRO mode with coasting function, in production of ancillary units pressor, efficiency-optimised rear difference of the reduced roll resistance, BMW Bluers, 225/55 R17 tyres 5.7 4.4 4.9 129 with winter tyres	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1 133
Fuel consump With standard v Urban Extra-urban Combined CO ₂ With 8J x 18 w Urban	Dynamics, res ption EU³⁾ wheels and tyre	es: 8J x 17 wheels Itr/100 km Itr/100 km g/km 45 R18 tyres and Itr/100 km	D PRO mode with coasting function, in production of ancillary units or soor, efficiency-optimised rear differed according to the reduced roll resistance, BMW Blue of the reduced roll resistance, BMW Bl	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1 133
Fuel consump With standard v Urban Extra-urban Combined CO ₂ With 8J x 18 w Urban Extra-urban	Dynamics, res ption EU³⁾ wheels and tyre	es: 8J x 17 wheels ltr/100 km ltr/100 km g/km 45 R18 tyres and ltr/100 km ltr/100 km	D PRO mode with coasting function, in production of ancillary units pressor, efficiency-optimised rear differ reduced roll resistance, BMW Blue 1, 225/55 R17 tyres 5.7 4.4 4.9 129 with winter tyres 5.9 4.6	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with aePerformance technology 5.8 4.6 5.1 133 6.1 4.8 5.3
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Fuel consump With standard v Urban Extra-urban Combined CO2 With 8J x 18 wl Urban Extra-urban Combined CO2 With 8J x 18 wl With 8J x 18 wl With 8J x 18 wl	ption EU ³⁾ wheels and tyre wheels and 245/	es: 8J x 17 wheels Itr/100 km	D PRO mode with coasting function, in produced roll resistance, BMW Bluers of the state of the s	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1 133 6.1 4.8 5.3 138 at rear R19 at rear (30 R20 at the rear
Fuel consump With standard v Urban Extra-urban Combined CO ₂ With 8J x 18 wl Urban Extra-urban Combined CO ₂ With 8J x 18 wl Urban Extra-urban Combined CO ₂ With 8J x 18 wl With 8J x 18 wl	ption EU ³⁾ wheels and tyre wheels and 245/	es: 8J x 17 wheels ltr/100 km ltr/100 km g/km 45 R18 tyres and ltr/100 km ltr/100 km g/km 3J x 18 at rear and, 9J x 19 at rear ar, 9J x 20 at the rea	D PRO mode with coasting function, in produced roll resistance, BMW Bluers, 225/55 R17 tyres 5.7 4.4 4.9 129 with winter tyres 5.9 4.6 5.1 134 245/45 R18 tyres at front, 275/40 Red and 245/40 R19 tyres at front, 275/35 ar and 245/35 R20 tyres at front, 275/35 ar and 245/35 R20 tyres at front, 275/35 ar and 245/35 R20 tyres at front, 275/35	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1 133 6.1 4.8 5.3 138 18 at rear R19 at rear //30 R20 at the rear
Fuel consump With standard v Urban Extra-urban Combined CO2 With 8J x 18 wi Urban Extra-urban Combined CO2 With 8J x 18 wi	ption EU ³⁾ wheels and tyre wheels and 245/	es: 8J x 17 wheels Itr/100 km Itr/100 km Itr/100 km g/km 45 R18 tyres and Itr/100 km Itr/100 km g/km 9J x 18 at rear and 1, 9J x 19 at rear ar 1, 9J x 20 at the rear	D PRO mode with coasting function, in produced mand operation of ancillary units pressor, efficiency-optimised rear differeduced roll resistance, BMW Bluers, 225/55 R17 tyres 5.7 4.4 4.9 129 with winter tyres 5.9 4.6 5.1 134 1245/45 R18 tyres at front, 275/40 R1 and 245/40 R19 tyres at front, 275/35 ar and 245/35 R20 tyres at front, 275.	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1 133 6.1 4.8 5.3 138 18 at rear R19 at rear //30 R20 at the rear
Fuel consump With standard v Urban Extra-urban Combined CO ₂ With 8J x 18 wi Urban Extra-urban Combined CO ₂ With 8J x 18 wi Urban Extra-urban Combined CO ₂ Urban Extra-urban Combined CO ₂ Urban Extra-urban	ption EU ³⁾ wheels and tyre wheels and 245/	es: 8J x 17 wheels Itr/100 km Itr/100 km Itr/100 km g/km 45 R18 tyres and Itr/100 km	D PRO mode with coasting function, in produced provided the reduced roll resistance, BMW Bluers, 225/55 R17 tyres 5.7 4.4 4.9 129 with winter tyres 5.9 4.6 5.1 134 1245/45 R18 tyres at front, 275/40 R: and 245/35 R20 tyres at front, 275/35 ar and 245/35 R20 tyres at front, 275/35 6.2 4.8	ntelligent lightweight construction, s, air flap control, detachable a/c erential and power divider, tyres with uePerformance technology 5.8 4.6 5.1 133 6.1 4.8 5.3 138 at rear R19 at rear

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

 $^{^{1)}}$ Height with roof aerial: 1475 mm $^{2)}$ Oil change $^{3)}$ Fuel consumption and $\rm CO_2$ emissions depend on the selected tyre format