



For Release: May 1, 2007

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**2008 BMW 5 SERIES
Technical Specifications**

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General	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Curb weight, lb.:						
Manual transmission	3505	3770	TBD	TBD	TBD	3946
Automatic transmission	3571	3814	3704	3946	4145	3968
Weight distribution, front/rear, %:						
Manual transmission	49.7/50.3	51.8/48.2	TBD	TBD	TBD	51.4/48.6
Automatic transmission	50.3/49.7	52.0/48.0	51.8/48.2	53.4/46.6	49.2/50.8	51.7/48.3
Wheelbase, in.	113.7 ¹				113.6	

¹ – Specification applies to all Sedan models.

Body	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Track, front/rear, in. (w/std. wheels)		61.3/62.2 ¹				61.3/62.2
Length, in.	191.1 ¹				191.2	
Width, in.	72.7 ²					
Height, in.	57.8	58.3	57.8	58.3	58.7	57.8
Type	4-door sedan ¹				5-door wagon	
Aerodynamic drag coefficient	0.29	0.28	0.29	0.31	0.33	0.29
EPA size classification	Midsized ¹				Midsized sta. wagon	
Accommodations	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Seating capacity, persons	5 ²					
Shoulder room, front/rear, in.	57.3/57.2 ²					
Head room, front/rear, in.	39.1/38.1 ¹				39.1/39.1	
Leg room, front/rear, in.	41.5/36.0 ²					
EPA pass.-compartment vol., cu ft.	99.1 ¹				96.5	
EPA cargo volume, cu ft.	14.0 ³				17.6/33.6/58.3 ⁴	

² – Specification applies to all models.

³ – Can be expanded via available folding rear seats.

⁴ – Rear seats upright, loaded to top of seats/rear seats upright, loaded to ceiling/rear seats folded, loaded to ceiling.

Engine & electrical	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Engine type	DOHC inline 24-valve 6-cylinder, magnesium/aluminum composite construction, Valvetronic variable intake-valve lift & Double VANOS ⁵ steplessly variable intake- & exhaust-valve timing ⁶		DOHC inline 24-valve 6-cylinder, aluminum construction with cast-iron cylinder liners, direct fuel injection with piezo injectors, twin turbochargers, Double VANOS ⁵ steplessly variable intake- & exhaust valve timing ⁷			DOHC (4 cam) 32-valve V-8, all aluminum construction, Valvetronic variable intake-valve lift & Double VANOS ⁵ steplessly variable intake- & exhaust valve timing
Bore x stroke, mm/in.	85.0 x 88.0/3.35 x 3.46 ⁶		84.0 x 89.6/3.31 x 3.53 ⁷			93.0 x 88.3/ 3.66 x 3.48
Displacement, cc/cu in.	2996/183 ⁶		2979/182 ⁷			4799/293
Compression ratio	10.7 ⁶		10.2:1 ⁷			10.5:1
Power @ rpm, hp	230 @ 6500 ⁶		300 @ 5800 ⁷			360 @ 6300
Torque @ rpm, lb-ft.	200 @ 2750 ⁶		300 @ 1400-5000 ⁷			360 @ 3400
Engine-management system	MSV80 with knock control (2 sensors); Valvetronic, variable valve timing, engine cooling & other functions included in control strategy ⁶		MSD80 with knock control (2 sensors); direct fuel injection, variable valve timing, engine cooling & other functions included in control strategy ⁷			ME9 with knock control, Valvetronic variable valve timing, engine cooling & other functions included in control strategy

⁵ – VANOS = **V**Ariable **N**Ockenwellen **S**teuerung = variable camshaft control, or variable valve timing.

⁶ – Specification applies to 528i/xi models.

⁷ – Specification applies to 535i/xi models.

Engine & electrical (cont.)	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Induction system	Single-stage ⁸					2-stage
Fuel requirement	Premium unleaded ²					
Fuel capacity, U.S. gal.	18.5 ²					
Battery capacity, amp-hr.	110 ²					
Alternator output rating, amp./W	180/2520 ²					
Drivetrain	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Drive system	Front engine/ rear-wheel drive	Front engine/ all-wheel drive	Front engine/ rear-wheel drive	Front engine/ all-wheel drive	Front engine/ all-wheel drive	Front engine/ rear-wheel drive
Manual transmission	Getrag I, 6-speed	ZF H, 6-speed	TBD	TBD	TBD	ZF G, 6-speed
Ratios:						
1st	4.32:1	4.35:1				4.06:1
2nd	2.46:1	2.50:1				2.40:1
3rd	1.66:1	1.66:1				1.58:1
4th	1.23:1	1.23:1				1.19:1
5th	1.00:1	1.00:1				1.00:1
6th	0.85:1	0.85:1				0.87:1
Reverse	3.94:1	3.93:1				3.68:1
Final drive ratio	3.38:1	3.46:1				2.93:1

⁸ - Specification applies to all 6-cylinder models.

Drivetrain (cont.)	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Automatic transmission	ZF 6 HP 19 TU ² , 6-speed STEPTRONIC with Adaptive Transmission Control, selectable Manual & Sport modes					
Ratios:						
1st	4.17:1 ²					
2nd	2.34:1 ²					
3rd	1.52:1 ²					
4th	1.14:1 ²					
5th	0.87:1 ²					
6th	0.69:1 ²					
Reverse	3.40:1 ²					
Final drive ratio	3.73:1	3.91:1	3:46:1	3.46:1	3.48:1	3.38:1
Chassis	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Body/frame construction	Unitized; aluminum front end, otherwise steel					
Front suspension	Struts, double-pivot lower arms, coil springs, twin-tube gas-pressure shock absorbers, anti-roll bar, subframe ² (528i/535i/550i: aluminum lower arms, steering knuckles, strut tubes, subframe & thrust plate) (528i/535i/550i ZSP: sport suspension calibration, Active Roll Stabilization)					
Rear suspension	4-link Integral Link suspension; coil springs, twin-tube gas-pressure shock absorbers, anti-roll bar; aluminum suspension system & subframe ² (528i/535i/550i ZSP: sport suspension calibration, Active Roll Stabilization)					

Chassis (cont.)	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Steering type:						
standard	Rack & pinion, Servotronic vehicle-speed-sensitive power assist ²					
optional	Rack & pinion, Active Steering; Servotronic vehicle-speed-sensitive power assist ²					
Overall ratio, standard steering	Mechanically variable; mean ratio is 13.7:1 ²					
Overall ratio, optional Active Steering	Electrically/electronically variable over wide range of 10.8:1 – 18.0:1					
Turning circle, ft.	37.5	39.0	37.5	39.0	39.0	37.5
4-wheel ventilated disc brakes with aluminum calipers:						
Diameter x thickness, mm/in.						
Front	324 x 30/12.8 x 1.18		348 x 30/13.7 x 1.18		348 x 30/13.7 x 1.18	
Rear	320 x 20/12.6 x 0.79 ⁸		345 x 24/13.6 x 0.94		345 x 24/13.6 x 0.94	
Wheels:						
standard	Cast alloy, 17 x 7.5 ⁸				Cast alloy, 17 x 8.0	
optional (ZSP or stand-alone)	Cast alloy, 18 x 8.0 ⁵		Cast alloy, 18 x 8.0 F/18 x 9.0 R		Cast alloy, 18 x 8.0	Cast alloy, 19 x 8.5 F/19 x 9.5 R
Tires:						
standard	225/50R-17 all-season ²					
optional (ZSP or stand-alone)	245/40R-18 run-flat performance ^{6,9}		245/40R-18 F / 275/35-18 R run-flat performance ^{7,9}		245/40R-18 run-flat performance ⁹	245/35R-19 F/ 275/30-19 R performance ⁹

⁹ – Due to low-profile tires, please note: Wheels, tires and suspension parts are more susceptible to road hazard and consequential damages. Some models are not equipped with a spare tire and wheel. Performance tires are not recommended for driving in snow and ice conditions.

Chassis (cont.)	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Stability-enhancement system ²	Dynamic Stability Control (DSC), including Dynamic Traction Control, electronic brake proportioning, antilock braking (ABS), Dynamic Brake Control & cornering/braking stability enhancement (528xi/535xi models: add Hill Descent Control)					

Performance data	528i Sedan	528xi Sedan	535i Sedan	535xi Sedan	535xi Sports Wagon	550i Sedan
Acceleration, 0-60 mph, sec. ¹⁰ :						
Manual transmission	6.5	7.1	TBD	TBD	TBD	5.4
Automatic transmission	7.1	7.6	5.7	5.6	5.8	5.5
Top speed, mph ¹¹ :	150	150	150	150	150	150
Fuel economy, EPA est. MPG, ¹² city/highway:						
Manual transmission	17/27	17/25	TBD	TBD	TBD	15/22
Automatic transmission	18/27	17/25	17/26	17/25	16/24	15/23

ZSP –Sport Package NA – Not available or not applicable TBD – To Be Determined

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¹⁰ – BMW AG test results. Actual acceleration results may vary depending on specification of vehicle; road and environmental conditions; testing procedures and driving style. These results should be used for comparison only, and verification should not be attempted on public roads. BMW urges you to obey all posted speed limits and to please wear your safety belt at all times.

¹¹ – Electronically limited

¹² – Preliminary EPA figures