

BMW

U.S. Media Information

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Technical Data.

2011 BMW 5 Series Sedan.

		528i Sedan	535i Sedan	535i Sedan	535i xDrive Sedan
10.01.2010		Auto 8 Speed	Manual 6 Speed	Auto 8 Speed	Auto 8 Speed
Body					
No. of Doors / Seating Capacity		4 / 5	4 / 5	4 / 5	4 / 5
Vehicle Length	mm / inch	4905 / 193.1	4905 / 193.1	4905 / 193.1	4905 / 193.1
Vehicle Width	mm / inch	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2
Vehicle Height, Unloaded	mm / inch	1464 / 57.6	1464 / 57.6	1464 / 57.6	1464 / 57.6
Wheelbase	mm / inch	2968 / 116.9	2968 / 116.9	2968 / 116.9	2968 / 116.9
Turning Circle	m / ft	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2
Track, Front	mm / inch	1600 / 63.0	1600 / 63.0	1600 / 63.0	1600 / 63.0
Track, Rear	mm / inch	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1
Width at Shoulderheight, Front	mm / inch	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3
Width at Shoulderheight, Rear	mm / inch	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2
Effective Leg Room, Front	mm / inch	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4
Effective Leg Room, Rear	mm / inch	918 / 36.1	918 / 36.1	918 / 36.1	918 / 36.1
Effective Head Room, Front	mm / inch	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5
Effective Head Room, Rear	mm / inch	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3
Trunk Volume acc SAE1100	ft³	14	14	14	14
Fuel Capacity	L / gal	70 / 18.5	70 / 18.5	70 / 18.5	70 / 18.5
Curb Weight	kg / lbs	1720 / 3792	1845 / 4068	1855 / 4090	1920 / 4233
Weight Distribution Front/Rear	%	49.4 / 50.6	50.9 / 49.1	50.9 / 49.1	52.9 / 47.1
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2260 / 4982	2340 / 5159	2350 / 5181	2440 / 5379
Payload	kg / lbs	480 / 1058	480 / 1058	480 / 1058	480 / 1058
Axle Load Limit, front	kg / lbs	1070 / 2359	1130 / 2491	1130 / 2491	1225 / 2701
Axle Load Limit, rear	kg / lbs	1290 / 2844	1310 / 2888	1320 / 2910	1320 / 2910
Towing Capacity	lbs	-	-	-	- / -
Roof Load Limit	kg / lbs	100 / 220	100 / 220	100 / 220	100 / 220
Drag Coefficient	Cd	0.28	0.29	0.29	0.30
Drag Cd x A	m² / ft²	0.66 / 7.08	0.68 / 7.34	0.68 / 7.34	0.71 / 7.59
Engine					
		N52	N55	N55	N55
Engine Type / Cylinder / Valves per Cylinder	-	Inline / 6 / 4 VANOS	Inline / 6 / 4 VANOS	Inline / 6 / 4 VANOS	Inline / 6 / 4 VANOS
Engine Management System	-	MSV80 Port Injection	MEVD17.2 Direct Injection	MEVD17.2 Direct Injection	MEVD17.2 Direct Injection
Induction System	Bar	Natural Valvetronic	Valvetronic, single twin scroll turbo	Valvetronic, single twin scroll turbo	Valvetronic, single twin scroll turbo
Boost Pressure	Bar	-	0.6	0.6	0.6
Displacement	cm³ / inch³	2996 / 182.8	2979 / 181.8	2979 / 181.8	2979 / 181.8
Stroke	mm / inch	88 / 3.46	89.6 / 3.53	89.6 / 3.53	89.6 / 3.53
Bore	mm / inch	85 / 3.35	84 / 3.31	84 / 3.31	84 / 3.31
Power	SAE hp / rpm	230 / 6500	300 / 5800-6250	300 / 5800-6250	300 / 5800-6250
Torque	ft lbs / rpm	200 (270) / 2750	300 / 1200-5000	300 / 1200-5000	300 / 1200-5000
Compression Ratio / Fuel type	-	10.7 / Premium	10.2 / Premium	10.2 / Premium	10.2 / Premium
Chassis and Suspension					
Codification of Reference Gearbox	-	8HP45	K	8HP45	8HP45
Gear Ratios I	-	4.714	4.110	4.714	4.714
II	-	3.143	2.315	3.143	3.143
III	-	2.106	1.542	2.106	2.106
IV	-	1.667	1.179	1.667	1.667
V	-	1.285	1.000	1.285	1.285
VI	-	1.000	0.846	1.000	1.000
VII	-	0.839	-	0.839	0.839
VIII	-	0.667	-	0.667	0.667
Reverse Ratio	-	3.295	3.727	3.295	3.295
Final Drive Ratio	-	3.385	3.231	3.077	3.077
Steering Type / Ratio	-	Rack-and-pinion / 17.1	Rack-and-pinion / 17.1	Rack-and-pinion / 17.1	Rack-and-pinion / 17.1
Front Brakes / Diameter	- / mm / inch	Vented 330 / 13.0	Vented 348 / 13.7	Vented 348 / 13.7	Vented 348 / 13.7
Rear Brakes / Diameter	- / mm / inch	Vented 330 / 13.0	Vented 330 / 13.0	Vented 330 / 13.0	Vented 330 / 13.0
Tire Type, Front	-	225/55 R17 96V RSC AS	245/45 R18 96V RSC AS	245/45 R18 96V RSC AS	245/45 R18 96V RSC AS
Tire Type, Rear	-	225/55 R17 96V RSC AS	245/45 R18 96V RSC AS	245/45 R18 96V RSC AS	245/45 R18 96V RSC AS
Tire Type, Front w. Sport Package (top)	-	245/45 R18 96V RSC	245/40 R19 RSC	245/40 R19 RSC	245/40 R19 RSC
Tire Type, Rear w. Sport Package (top)	-	245/45 R18 96V RSC	275/35 R19 RSC	275/35 R19 RSC	275/35 R19 RSC
Wheels, Front	-	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy
Wheels, Rear	-	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy
Wheels, Front w. Sport Package (top)	-	8.5J x 19 Light alloy	8.5J x 19 Light alloy	8.5J x 19 Light alloy	8.5J x 19 Light alloy
Wheels, Rear w. Sport Package (top)	-	9J x 19 Light alloy	9J x 19 Light alloy	9J x 19 Light alloy	9J x 19 Light alloy
Performance					
Top Speed	km/h / mph	210 / 130	210 / 130	210 / 130	210 / 130
Top speed w. Sport Package	km/h / mph	240 / 150	240 / 150	240 / 150	240 / 150
Acceleration, 0-60 mph	s	6.6	5.7	5.7	5.6
Acceleration, 0-100 Km/h	s	7.0	6.0	6.0	5.9
Fuel Economy, EPA Estimate - City	mpg	22	19	20	19
Fuel Economy, EPA Estimate - Highway	mpg	32	28	30	29
Fuel Economy, EPA Estimate - Combined	mpg	25	22	24	23
Approximate Range	km / miles	6725 / 450	640 / 395	695 / 430	665 / 415

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Technical Data.

2011 BMW 5 Series Sedan.

10.01.2010	550i		550i		550i xDrive	
	Sedan		Sedan		Sedan	
	Manual 6 Speed	Auto 8 Speed	Auto 8 Speed	Auto 8 Speed	Auto 8 Speed	Auto 8 Speed
Body						
No. of Doors / Seating Capacity	4 / 5		4 / 5		4 / 5	
Vehicle Length	mm / inch	4905 / 193.1	4905 / 193.1	4905 / 193.1	4905 / 193.1	4905 / 193.1
Vehicle Width	mm / inch	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2
Vehicle Height, Unloaded	mm / inch	1464 / 57.6	1464 / 57.6	1464 / 57.6	1464 / 57.6	1464 / 57.6
Wheelbase	mm / inch	2968 / 116.9	2968 / 116.9	2968 / 116.9	2968 / 116.9	2968 / 116.9
Turning Circle	m / ft	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2	11.95 / 39.2
Track, Front	mm / inch	1600 / 63.0	1600 / 63.0	1600 / 63.0	1600 / 63.0	1600 / 63.0
Track, Rear	mm / inch	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1
Width at Shoulderheight, Front	mm / inch	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3
Width at Shoulderheight, Rear	mm / inch	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2
Effective Leg Room, Front	mm / inch	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4
Effective Leg Room, Rear	mm / inch	918 / 36.1	918 / 36.1	918 / 36.1	918 / 36.1	918 / 36.1
Effective Head Room, Front	mm / inch	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5
Effective Head Room, Rear	mm / inch	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3
Trunk Volume acc SAE1100	ft³	14	14	14	14	14
Fuel Capacity	L / gal	70 / 18.5	70 / 18.5	70 / 18.5	70 / 18.5	70 / 18.5
Curb Weight	kg / lbs	1980 / 4365	1980 / 4365	1980 / 4365	2050 / 4519	2050 / 4519
Weight Distribution Front/Rear	%	52.5 / 47.5	52.6 / 47.5	52.6 / 47.5	53.9 / 46.1	53.9 / 46.1
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2450 / 5401	2450 / 5401	2450 / 5401	2540 / 5600	2540 / 5600
Payload	kg / lbs	470 / 1036	470 / 1036	470 / 1036	470 / 1036	470 / 1036
Axle Load Limit, front	kg / lbs	1230 / 2712	1230 / 2712	1230 / 2712	1270 / 2800	1270 / 2800
Axle Load Limit, rear	kg / lbs	1330 / 2932	1330 / 2932	1330 / 2932	1340 / 2954	1340 / 2954
Towing Capacity	kg / lbs	-	-	-	- / -	- / -
Roof Load Limit	kg / lbs	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220
Drag Coefficient	Cd	0.30	0.30	0.30	0.30	0.30
Drag Cd x A	m² / ft²	0.71 / 7.59	0.71 / 7.59	0.71 / 7.59	0.71 / 7.59	0.71 / 7.59
Engine						
Engine	N63		N63		N63	
Engine Type / Cylinder / Valves per Cylinder	- V 90°/ 8 / 4 VANOS		- V 90°/ 8 / 4 VANOS		- V 90°/ 8 / 4 VANOS	
Engine Management System	- MSD 85.1 Direct Injection		- MSD 85.1 Direct Injection		- MSD 85.1 Direct Injection	
Induction System	Bar	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"	twin turbo reverse flow "hot V"
Boost Pressure	Bar	0.6	0.6	0.6	0.6	0.6
Displacement	cm³ / inch³	4395 / 268.2	4395 / 268.2	4395 / 268.2	4395 / 268.2	4395 / 268.2
Stroke	mm / inch	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48	88.3 / 3.48
Bore	mm / inch	89 / 3.50	89 / 3.50	89 / 3.50	89 / 3.50	89 / 3.50
Power	SAE hp / rpm	400 / 5500-6400	400 / 5500-6400	400 / 5500-6400	400 / 5500-6400	400 / 5500-6400
Torque	ft lbs / rpm	450 / 1750-4500	450 / 1750-4500	450 / 1750-4500	450 / 1750-4500	450 / 1750-4500
Compression Ratio / Fuel type	- 10.0 / Premium		- 10.0 / Premium		- 10.0 / Premium	
Chassis and Suspension						
Codification of Reference Gearbox	- G		- 8HP70		- 8HP70	
Gear Ratios I	- 4.055		- 4.714		- 4.714	
II	- 2.396		- 3.143		- 3.143	
III	- 1.582		- 2.106		- 2.106	
IV	- 1.192		- 1.667		- 1.667	
V	- 1.000		- 1.285		- 1.285	
VI	- 0.872		- 1.000		- 1.000	
VII	-		- 0.839		- 0.839	
VIII	-		- 0.667		- 0.667	
Reverse Ratio	- 3.677		- 3.317		- 3.317	
Final Drive Ratio	- 3.077		- 2.813		- 3.077	
Steering Type / Ratio	- Rack-and-pinion / 17.1		- Rack-and-pinion / 17.1		- Rack-and-pinion / 17.1	
Front Brakes / Diameter	- / mm / inch	Vented 348 / 13.7	Vented 348 / 13.7	Vented 348 / 13.7	Vented 348 / 13.7	Vented 348 / 13.7
Rear Brakes / Diameter	- / mm / inch	Vented 345 / 13.6	Vented 345 / 13.6	Vented 345 / 13.6	Vented 345 / 13.6	Vented 345 / 13.6
Tire Type, Front	- 245/45 R18 96V RSC AS		- 245/45 R18 96V RSC AS		- 245/45 R18 96V RSC AS	
Tire Type, Rear	- 245/45 R18 96V RSC AS		- 245/45 R18 96V RSC AS		- 245/45 R18 96V RSC AS	
Tire Type, Front w. Sport Package (top)	- 245/40 R19 RSC		- 245/40 R19 RSC		- 245/40 R19 RSC	
Tire Type, Rear w. Sport Package (top)	- 275/35 R19 RSC		- 275/35 R19 RSC		- 275/35 R19 RSC	
Wheels, Front	- 8J x 18 Light alloy		- 8J x 18 Light alloy		- 8J x 18 Light alloy	
Wheels, Rear	- 8J x 18 Light alloy		- 8J x 18 Light alloy		- 8J x 18 Light alloy	
Wheels, Front w. Sport Package (top)	- 8.5J x 19 Light alloy		- 8.5J x 19 Light alloy		- 8.5J x 19 Light alloy	
Wheels, Rear w. Sport Package (top)	- 9J x 19 Light alloy		- 9J x 19 Light alloy		- 9J x 19 Light alloy	
Performance						
Top Speed	km/h / mph	210 / 130	210 / 130	210 / 130	210 / 130	210 / 130
Top speed w. Sport Package	km/h / mph	240 / 150	240 / 150	240 / 150	240 / 150	240 / 150
Acceleration, 0-60 mph	s	5.0	5.0	5.0	4.9	4.9
Acceleration, 0-100 Km/h	s	5.3	5.3	5.3	5.2	5.2
Fuel Economy, EPA Estimate - City	mpg	15	17	17	16	16
Fuel Economy, EPA Estimate - Highway	mpg	22	25	25	24	24
Fuel Economy, EPA Estimate - Combined	mpg	17	20	20	18	18
Approximate Range	km / miles	495 / 305	580 / 360	580 / 360	520 / 325	520 / 325