

Technical Data
2014 BMW 5 Series Sedans

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		528i Sedan	535i Sedan	ActiveHybrid 5 Sedan	535i Sedan	550i Sedan
Engine type		N20B2000	N55B30M0	N55B30M0	N55B30M0	N63B44O1
Transmission type		automatic transmission 8	automatic transmission 8	automatic transmission 8	manual transmission 6	automatic transmission 8
No of Doors / Seats	/	4 / 5	4 / 5	4 / 5	4 / 5	4 / 5
Veh. length	mm / inch	4913 / 193.4	4913 / 193.4	4913 / 193.4	4913 / 193.4	4913 / 193.4
Veh. width	mm / inch	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2
Veh. height	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	12 / 39.4	12 / 39.4	12.1 / 39.7	12 / 39.4	12 / 39.4
Ground clearance	mm / inch	141 / 5.6	141 / 5.6	141 / 5.6	141 / 5.6	141 / 5.6
Shoulder width front	mm / inch	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3
Shoulder width rear	mm / inch	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2
Legroom front	mm / inch	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4
Legroom rear	mm / inch	897 / 35.3	897 / 35.3	897 / 35.3	897 / 35.3	897 / 35.3
Max. headroom front	mm / inch	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5
Max. headroom rear	mm / inch	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3
Luggage comp. capacity	m³ / ft³	0.520 / 18.4	0.520 / 18.4	0.375 / 13.2	0.520 / 18.4	0.520 / 18.4
Fuel tank capacity	liter / gal	70 / 18.5	70 / 18.5	67 / 17.7	70 / 18.5	70 / 18.5
Curb weight (US)	Kg / lbs	1730 / 3814	1855 / 4090	1980 / 4365	1845 / 4068	1980 / 4365
Weight distribution (empty car)	front % / rear %	49.4 / 50.6	50.4 / 49.6	48.6 / 51.4	50.6 / 49.4	51.5 / 48.5
Gross veh. weight	Kg / lbs	2255 / 4971	2350 / 5181	2415 / 5324	2340 / 5159	2450 / 5401
Payload	Kg / lbs	430 / 948	450 / 992	390 / 860	450 / 992	430 / 948
Axle load limit front	Kg / lbs	1070 / 2359	1130 / 2491	1145 / 2524	1130 / 2491	1230 / 2712
Axle load limit rear	Kg / lbs	1290 / 2844	1320 / 2910	1325 / 2921	1310 / 2888	1330 / 2932
Engine type / Cylinders / Valves p.cyl.		in line, VANOS, Valvetronic / 4 / 4	in line, VANOS, Valvetronic / 6 / 4	in line, VANOS, Valvetronic / 6 / 4	in line, VANOS, Valvetronic / 6 / 4	V 90 ° VANOS, Valvetronic / 8 / 4
Engine management		MEVD 17.2.4	MEVD 17.2.6	MEVD 17.2.6	MEVD 17.2.6	MEVD 17.2.H
Induction type		Single Twin Scroll Turbocharger	Single Twin Scroll Turbocharger	Single Twin Scroll Turbocharger	Single Twin Scroll Turbocharger	Twin Turbochargers
Injection type		High precision direct injection	High precision direct injection	High precision direct injection	High precision direct injection	High precision direct injection
Displacement	cm³ / inch³	1997 / 122	2979 / 182	2979 / 182	2979 / 182	4395 / 268
Stroke	mm / inch	90.1 / 3.5	89.6 / 3.5	89.6 / 3.5	89.6 / 3.5	88.3 / 3.5
Bore	mm / inch	84 / 3.3	84 / 3.3	84 / 3.3	84 / 3.3	89 / 3.5
Engine power / at rpm	hp @ rpm	240 / 5000-6500	300 / 5800-6000	300 / 5800-6000	300 / 5800-6000	445 / 5500-6000
Engine torque / at rpm	ft lbs (Nm) @ rpm	260 (350) / 1250-4800	300 (400) / 1300-5000	300 (400) / 1300-5000	300 (400) / 1300-5000	480 (650) / 2000-4500
Compression rate / Fuel type (recomm.)	:/	10.2 / Premium	10.2 / Premium	10.2 / Premium	10.2 / Premium	10.2 / Premium
Transmission		8HP45	8HP45	8HP70H	K	8HP70
Gear ratios 1st gear		4.714	4.714	4.714	4.11	4.714
2nd gear		3.143	3.143	3.143	2.315	3.143
3rd gear		2.106	2.106	2.106	1.542	2.106
4th gear		1.667	1.667	1.667	1.179	1.667
5th gear		1.285	1.285	1.285	1	1.285
6th gear		1	1	1	0.846	1
7th gear		0.839	0.839	0.839		0.839
8th gear		0.667	0.667	0.667		0.667
Reverse gear		3.295	3.295	3.317	3.727	3.317
Final drive		3.231	3.077	2.929	3.231	2.813
Steering type / Steering ratio		rack-and-pinion / 17.1	rack-and-pinion / 17.1	rack-and-pinion / 17.1	rack-and-pinion / 17.1	rack-and-pinion / 17.1
Front brake // Diameter	inch	disc ventilated // 13.3	disc ventilated // 13.7	disc ventilated // 13.7	disc ventilated // 13.7	disc ventilated // 13.7
Rear brake // Diameter	inch	disc ventilated //13	disc ventilated // 13	disc ventilated // 13	disc ventilated // 13	disc ventilated // 13.6
Cd // Frontal	ft m² / ft²	0.27 // 2.35 / 25.3	0.27 // 2.35 / 25.3	0.27 // 2.35 / 25.3	0.27 // 2.35 / 25.3	0.29 // 2.35 / 25.3
Top speed	Km/h / mph	210 / 130	210 / 130	210 / 130	210 / 130	210 / 130
Top speed optional	Km/h / mph	250 / 155	250 / 155	250 / 155	250 / 155	250 / 155
Acceleration 0-60 mph	s	6.1	5.5	5.7	5.7	4.5
Acceleration 0-100Km/h	s	6.4	5.8	6	6	4.7
Acceleration 0-1000m	s	26.5	25.4	25.4	25.4	23.1
Fuel cons. city (preliminary EPA)	mpg	24	20	23	20	17
Fuel cons. highway (preliminary EPA)	mpg	34	30	30	30	25
Fuel cons. combined (preliminary EPA)	mpg	28	24	26	23	20
Range (Combined)	miles	518	444	460	426	370
Front tires		225/55 R17 97V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC
Rear tires		225/55 R17 97V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC
Front wheels		8J x 17 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM
Rear wheels		8J x 17 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM
Track front	mm / inch	1600 / 63	1600 / 63	1600 / 63	1600 / 63	1600 / 63
Track rear	mm / inch	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1

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		528i xDrive Sedan	535i xDrive Sedan	550i xDrive Sedan	535d Sedan	535d xDrive Sedan
Engine type		N20B2000	N55B30M0	N63B44O1	N57D30O1	N57D30O1
Transmission type		automatic transmission 8	automatic transmission 8	automatic transmission 8	automatic transmission 8	automatic transmission 8
No of Doors / Seats	/	4 / 5	4 / 5	4 / 5	4 / 5	4 / 5
Veh. length	mm / inch	4913 / 193.4	4913 / 193.4	4913 / 193.4	4913 / 193.4	4913 / 193.4
Veh. width	mm / inch	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2	1860 / 73.2
Veh. height	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	12.1 / 39.7	12.1 / 39.7	12.1 / 39.7	12 / 39.4	12.1 / 39.7
Ground clearance	mm / inch	141 / 5.6	141 / 5.6	141 / 5.6	141 / 5.6	141 / 5.6
Shoulder width front	mm / inch	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3	1480 / 58.3
Shoulder width rear	mm / inch	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2	1427 / 56.2
Legroom front	mm / inch	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4	1052 / 41.4
Legroom rear	mm / inch	897 / 35.3	897 / 35.3	897 / 35.3	897 / 35.3	897 / 35.3
Max. headroom front	mm / inch	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5	1028 / 40.5
Max. headroom rear	mm / inch	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3	973 / 38.3
Luggage comp. capacity	m³ / ft³	0.520 / 18.4	0.520 / 18.4	0.520 / 18.4	0.520 / 18.4	0.520 / 18.4
Fuel tank capacity	liter / gal	70 / 18.5	70 / 18.5	70 / 18.5	70 / 18.5	70 / 18.5
Curb weight (US)	Kg / lbs	1815 / 4001	1920 / 4233	2050 / 4519	1853 / 4085	1930 / 4255
Weight distribution (empty car)	front % / rear %	50.1 / 49.9	51.7 / 48.3	53 / 47	50.4 / 49.6	51.6 / 48.4
Gross veh. weight	Kg / lbs	2345 / 5170	2440 / 5379	2540 / 5600	2404 / 5300	2445 / 5390
Payload	Kg / lbs	430 / 948	450 / 992	430 / 948	431 / 950	431 / 950
Axle load limit front	Kg / lbs	1110 / 2447	1225 / 2701	1270 / 2800	1157 / 2550	1225 / 2700
Axle load limit rear	Kg / lbs	1310 / 2888	1320 / 2910	1340 / 2954	1320 / 2910	1320 / 2910
Engine type / Cylinders / Valves p.cyl.		in line, VANOS, Valvetronic / 4 / 4	in line, VANOS, Valvetronic / 6 / 4	V 90 ° VANOS, Valvetronic / 8 / 4	in line / 6 / 4	in line / 6 / 4
Engine management		MEVD 17.2.4	MEVD 17.2.6	MEVD 17.2.H	DDE 7.41	DDE 7.41
Induction type		Single Twin Scroll Turbocharger	Single Twin Scroll Turbocharger	Twin Turbochargers	Single Variable Geometry Turbocharger	Single Variable Geometry Turbocharger
Injection type		High precision direct injection	High precision direct injection	High precision direct injection	Common rail direct injection	Common rail direct injection
Displacement	cm³ / inch³	1997 / 122	2979 / 182	4395 / 268	2993 / 183	2993 / 183
Stroke	mm / inch	90.1 / 3.5	89.6 / 3.5	88.3 / 3.5	90 / 3.5	90 / 3.5
Bore	mm / inch	84 / 3.3	84 / 3.3	89 / 3.5	84 / 3.3	84 / 3.3
Engine power / at rpm	hp @ rpm	240 / 5000-6500	300 / 5800-6000	445 / 5500-6000	255 / 4000	255 / 4000
Engine torque / at rpm	ft lbs (Nm) @ rpm	260 (350) / 1250-4800	300 (400) / 1300-5000	480 (650) / 2000-4500	413 (560) / 1500	413 (560) / 1500
Compression rate / Fuel type (recomm.)	/:1	10.2 / Premium	10.2 / Premium	10 / Premium	16.5 / Diesel (Diesel)	16.5 / Diesel (Diesel)
Transmission		8HP45	8HP45	8HP70	8HP70	8HP70
Gear ratios 1st gear		4.714	4.714	4.714	4.714	4.714
2nd gear		3.143	3.143	3.143	3.143	3.143
3rd gear		2.106	2.106	2.106	2.106	2.106
4th gear		1.667	1.667	1.667	1.667	1.667
5th gear		1.285	1.285	1.285	1.285	1.285
6th gear		1	1	1	1	1
7th gear		0.839	0.839	0.839	0.839	0.839
8th gear		0.667	0.667	0.667	0.667	0.667
Reverse gear		3.295	3.295	3.317	3.317	3.317
Final drive		3.231	3.077	2.813	2.647	2.647
Steering type / Steering ratio		rack-and-pinion / 17.9	rack-and-pinion / 17.9	rack-and-pinion / 17.9	rack-and-pinion / 17.1	rack-and-pinion / 17.9
Front brake // Diameter	inch	disc ventilated // 13.3	disc ventilated // 13.7	disc ventilated // 13.7	disc ventilated // 13.7	disc ventilated // 13.7
Rear brake // Diameter	inch	disc ventilated // 13	disc ventilated // 13	disc ventilated // 13.6	disc ventilated // 13	disc ventilated // 13
Cd // Frontal	ft m² / ft²	0.27 // 2.35 / 25.3	0.27 // 2.35 / 25.3	0.3 // 2.35 / 25.3	0.27 // 2.35 / 25.3	0.28 // 2.35 / 25.3
Top speed	Km/h / mph	210 / 130	210 / 130	210 / 130	210 / 130	210 / 130
Top speed optional	Km/h / mph	250 / 155	250 / 155	250 / 155	250 / 155	250 / 155
Acceleration 0-60 mph	s	6.2	5.4	4.3	5.8	5.7
Acceleration 0-100Km/h	s	6.5	5.7	4.5	6.1	6
Acceleration 0-1000m	s	26.8	25.5	23.1	26.1	26.3
Fuel cons. city (preliminary EPA)	mpg	22	20	16	26	26
Fuel cons. highway (preliminary EPA)	mpg	33	29	24	38	37
Fuel cons. combined (preliminary EPA)	mpg	26	23	19	30	30
Range (Combined)	miles	481	426	352	555	555
Front tires		225/55 R17 97V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC
Rear tires		225/55 R17 97V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC	245/45 R18 100V RSC
Front wheels		8J x 17 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM
Rear wheels		8J x 17 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM
Track front	mm / inch	1600 / 63	1600 / 63	1600 / 63	1600 / 63	1600 / 63
Track rear	mm / inch	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1	1627 / 64.1

