

BMW

U.S. Media Information

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Technical Data

2013 BMW 7 Series.

		760Li Sedan	740i Sedan	740Li Sedan	740Li H Sedan
07.22.2012		Auto 8 Speed	Auto 8 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	5214 / 205.3	5074 / 199.8	5214 / 205.3	5214 / 205.3
Vehicle width	mm / inch	1902 / 74.9	1902 / 74.9	1902 / 74.9	1902 / 74.9
Vehicle Height, Unloaded	mm / inch	1481 / 58.3	1471 / 57.9	1481 / 58.3	1481 / 58.3
Wheelbase	mm / inch	3210 / 126.4	3070 / 120.9	3210 / 126.4	3210 / 126.4
Turning Circle	m / ft	12.7 / 41.7	12.2 / 40	12.7 / 41.7	12.7 / 41.7
Track Front	mm / inch	1611 / 63.4	1611 / 63.4	1611 / 63.4	1611 / 63.4
Track Rear	mm / inch	1650 / 65	1650 / 65	1650 / 65	1650 / 65
Ground Clearance	mm / inch	152 / 6	152 / 6	152 / 6	152 / 6
Width at Shoulder, Front	mm / inch	1503 / 59.2	1503 / 59.2	1503 / 59.2	1503 / 59.2
Width at Shoulder, Rear	mm / inch	1462 / 57.6	1458 / 57.4	1462 / 57.6	1462 / 57.6
Effective Legroom, Front	mm / inch	1048 / 41.3	1048 / 41.3	1048 / 41.3	1048 / 41.3
Effective Legroom, Rear	mm / inch	1124 / 44.3	987 / 38.9	1124 / 44.3	1124 / 44.3
Effective Head Room, Front	mm / inch	1036 / 40.8	1032 / 40.6	1036 / 40.8	1036 / 40.8
Effective Head Room, Rear	mm / inch	988 / 38.9	978 / 38.5	988 / 38.9	988 / 38.9
Trunk Volume	m ³ / ft ³	0.50 / 17.7	0.50 / 17.7	0.50 / 17.7	0.36 / 12.7
Fuel Capacity	liter / gal	80 / 21.1	80 / 21.1	80 / 21.1	76 / 20.1
Curb Weight	Kg / lbs	2275 / 5015	1955 / 4310	1973 / 4350	2123 / 4680
Weight distribution (empty car)	%	48.4	49.8	49.8	51.3
Gross Vehicle Weight Rating (GVWR)	Kg / lbs	2751 / 6065	2515 / 5545	2556 / 5635	2599 / 5730
Payload	Kg / lbs	431 / 950	469 / 1035	469 / 1035	411 / 905
Axle Load Limit, Front	Kg / lbs	1349 / 2975	1179 / 2600	1191 / 2625	1211 / 2670
Axle Load Limit, Rear	Kg / lbs	1454 / 3205	1415 / 3120	1424 / 3140	1454 / 3205
Engine					
Engine type / Cylinders / Valves p.cyl.		N74B60U0	N55B3000	N55B3000	N55B3000
Fuel Management System		V90 / 12 / 4	in line / 6 / 4	in line / 6 / 4	in line / 6 / 4
Injection System / Boost Pressure		MSD 87	MEVD 17.2.6	MEVD 17.2.6	MEVD 17.2.6
Displacement	cm ³ / inch	DI / TwinPower Turbo	DI2,VVT / TwinScroll Turbo	DI2,VVT / TwinScroll Turbo	DI2,VVT / TwinScroll Turbo
Stroke	mm / inch	5972 / 364	2979 / 182	2979 / 182	2979 / 182
Bore	mm / inch	80 / 3.1	89.6 / 3.5	89.6 / 3.5	89.6 / 3.5
Engine Power	bHP / 11min	89 / 3.5	84 / 3.3	84 / 3.3	84 / 3.3
Engine Torque	ft lbs (Nm) / 11min	536 / 5250	315 / 5900	315 / 5900	315 / 5900
Compression Ratio / Fuel type		553 (750) / 1500-5000 10 / Premium	332 (450) / 1300-4500 10.2 / Premium	332 (450) / 1300-4500 10.2 / Premium	332 (450) / 1300-4500 10.2 / Premium
Chassis and Suspension					
Codification of Reference Gearbox		8HP90	8HP45	8HP45	8HP70
Gear Ratios I		4.714	4.714	4.714	4.714
II		3.143	3.143	3.143	3.143
III		2.106	2.106	2.106	2.106
IV		1.667	1.667	1.667	1.667
V		1.285	1.285	1.285	1.285
VI		1.00	1.00	1.00	1.00
VII		0.839	0.839	0.839	0.839
VIII		0.667	0.667	0.667	0.667
Reverse Ratio		3.317	3.295	3.295	3.317
Final Drive Ratio		2.813	3.077	3.077	2.929
Steering Type / Ratio		rack-and-pinion	rack-and-pinion (hydraulic) / 17	rack-and-pinion (EPS) /	rack-and-pinion (EPS) /
Front Brakes		disc ventilated	disc ventilated	disc ventilated	disc ventilated
Rear Brakes		disc ventilated	disc ventilated	disc ventilated	disc ventilated
Tire Type, Front		245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y
Tire Type, Rear		245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y
Tire Type, Front w Sport Package		245/40 R20	245/45 R19	245/45 R19	245/45 R19
Tire Type, Rear w Sport Package		275/35 R20	275/40 R19	275/40 R19	275/40 R19
Wheels, Front		8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM
Wheels, Rear		8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM
Wheels, Front w Sport Package		8.5x20 LM	8.5J x 19 LM	8.5J x 19 LM	8.5J x 19 LM
Wheels, Rear w Sport Package		10.0x20 LM	9.5J x 19 LM	9.5J x 19 LM	9.5J x 19 LM
Performance					
Top Speed	Km/h / mph	250 / 130	250 / 130	250 / 130	250 / 130
Top Speed w Sport Package	Km/h / mph	250 / 155	250 / 155	250 / 155	250 / 155
Acceleration, 0-60 mph	sec.	4.5	5.5	5.6	5.6
Acceleration, 0-100 Km/h	sec.	4.7	5.9	5.9	5.9
Fuel Economy, Estimate - City *	mpg	TBA	TBA	TBA	TBA
Fuel Economy, Estimate - Highway *	mpg	TBA	TBA	TBA	TBA
Fuel Economy, Estimate - Combined*	mpg	TBA	TBA	TBA	TBA
Approximate Range*	km / miles	TBA	TBA	TBA	TBA

* Fuel mileage ratings - not tested

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Technical Data

2013 BMW 7 Series

07.22.2012		750i Sedan Auto 8 Speed	750Li Sedan Auto 8 Speed	740Li xDrive Sedan Auto 8 Speed	750i xDrive Sedan Auto 8 Speed	750Li xDrive Sedan Auto 8 Speed
Body						
No of Doors / Seating Capacity		4 / 5	4 / 5	4 / 5	4 / 5	4 / 5
Vehicle length	mm / inch	5074 / 199.8	5214 / 205.3	5214 / 205.3	5074 / 199.8	5214 / 205.3
Vehicle width	mm / inch	1902 / 74.9	1902 / 74.9	1902 / 74.9	1902 / 74.9	1902 / 74.9
Vehicle Height, Unloaded	mm / inch	1471 / 57.9	1481 / 58.3	1481 / 58.3	1471 / 57.9	1481 / 58.3
Wheelbase	mm / inch	3070 / 120.9	3210 / 126.4	3210 / 126.4	3070 / 120.9	3210 / 126.4
Turning Circle	m / ft	12.2 / 40	12.7 / 41.7	13 / 42.7	12.5 / 41	13 / 42.7
Track Front	mm / inch	1611 / 63.4	1611 / 63.4	1611 / 63.4	1611 / 63.4	1611 / 63.4
Track Rear	mm / inch	1650 / 65	1650 / 65	1650 / 65	1650 / 65	1650 / 65
Ground Clearance	mm / inch	152 / 6	152 / 6	152 / 6	152 / 6	152 / 6
Width at Shoulder, Front	mm / inch	1503 / 59.2	1503 / 59.2	1503 / 59.2	1503 / 59.2	1503 / 59.2
Width at Shoulder, Rear	mm / inch	1458 / 57.4	1462 / 57.6	1462 / 57.6	1458 / 57.4	1462 / 57.6
Effective Legroom, Front	mm / inch	1048 / 41.3	1048 / 41.3	1048 / 41.3	1048 / 41.3	1048 / 41.3
Effective Legroom, Rear	mm / inch	987 / 38.9	1124 / 44.3	1124 / 44.3	987 / 38.9	1124 / 44.3
Effective Head Room, Front	mm / inch	1032 / 40.6	1036 / 40.8	1036 / 40.8	1032 / 40.6	1036 / 40.8
Effective Head Room, Rear	mm / inch	978 / 38.5	988 / 38.9	988 / 38.9	978 / 38.5	988 / 38.9
Trunk Volume	m³ / ft³	0.50 / 17.7	0.50 / 17.7	0.50 / 17.7	0.50 / 17.7	0.50 / 17.7
Fuel Capacity	liter / gal	80 / 21.1	80 / 21.1	80 / 21.1	80 / 21.1	80 / 21.1
Curb Weight	Kg / lbs	2075 / 4575	2114 / 4660	2053 / 4525	2152 / 4745	2177 / 4800
Weight distribution (empty car)	%	48.9	48.7	48.5	47.6	47.7
Gross Vehicle Weight Rating (GVWR)	Kg / lbs	2601 / 5735	2640 / 5820	2624 / 5785	2660 / 5865	2694 / 5940
Payload	Kg / lbs	469 / 1035	431 / 950	469 / 1035	431 / 950	431 / 950
Axle Load Limit, Front	Kg / lbs	1250 / 2755	1261 / 2780	1250 / 2755	1300 / 2865	1311 / 2890
Axle Load Limit, Rear	Kg / lbs	1424 / 3140	1431 / 3155	1431 / 3155	1429 / 3150	1449 / 3195
Engine						
Engine type / Cylinders / Valves p.cyl.		N63B44O1 V90 / 8 / 4	N63B44O1 V90 / 8 / 4	N55B30O0 in line / 6 / 4	N63B44O1 V90 / 8 / 4	N63B44O1 V90 / 8 / 4
Fuel Management System		MEVD 17.2.8	MEVD 17.2.8	MEVD 17.2.6	MEVD 17.2.8	MEVD 17.2.8
Injection System / Boost Pressure		DI / TwinPower Turbo	DI / TwinPower Turbo	DI2, VVT / TwinScroll Turbo	DI / TwinPower Turbo	DI / TwinPower Turbo
Displacement	cm³ / inch	4395 / 268	4395 / 268	2979 / 182	4395 / 268	4395 / 268
Stroke	mm / inch	88.3 / 3.5	88.3 / 3.5	89.6 / 3.5	88.3 / 3.5	88.3 / 3.5
Bore	mm / inch	89 / 3.5	89 / 3.5	84 / 3.3	89 / 3.5	89 / 3.5
Engine Power	bHP / 1/min	443 / 5500	443 / 5500	315 / 5800	443 / 5500	443 / 5500
Engine Torque	ft lbs (Nm) / 1/min	479 (650) / 2000-4500	479 (650) / 2000-4500	332 (450) / 1300-4500	479 (650) / 2000-4500	479 (650) / 2000-4500
Compression Ratio / Fuel type	- / l	10 / Premium	10 / Premium	10.2 / Premium	10 / Premium	10 / Premium
Chassis and Suspension						
Codification of Reference Gearbox		8HP70	8HP70	8HP45	8HP70	8HP70
Gear Ratios I		4.714	4.714	4.714	4.714	4.714
II		3.143	3.143	3.143	3.143	3.143
III		2.106	2.106	2.106	2.106	2.106
IV		1.667	1.667	1.667	1.667	1.667
V		1.285	1.285	1.285	1.285	1.285
VI		1.00	1.00	1.00	1.00	1.00
VII		0.839	0.839	0.839	0.839	0.839
VIII		0.667	0.667	0.667	0.667	0.667
Reverse Ratio		3.317	3.317	3.295	3.317	3.317
Final Drive Ratio		2.813	2.813	3.077	2.813	2.813
Steering Type / Ratio		rack-and-pinion (EPS)/ 17	rack-and-pinion (EPS)/ 17	rack-and-pinion (hydraulic)/ 19	rack-and-pinion (hydraulic)/ 19	rack-and-pinion (hydraulic)/ 19
Front Brakes		disc ventilated	disc ventilated	disc ventilated	disc ventilated	disc ventilated
Rear Brakes		disc ventilated	disc ventilated	disc ventilated	disc ventilated	disc ventilated
Tire Type, Front		245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y
Tire Type, Rear		245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y	245/50 R18 100Y
Tire Type, Front w Sport Package		245/45 R19	245/45 R19	245/45 R19	245/45 R19	245/45 R19
Tire Type, Rear w Sport Package		275/40 R19	275/40 R19	245/45 R19	245/45 R19	245/45 R19
Wheels, Front		8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM
Wheels, Rear		8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM	8J x 18 LM
Wheels, Front w Sport Package		8.5Jx19 LM	8.5Jx19 LM	8.5Jx19 LM	8.5Jx19 LM	8.5Jx19 LM
Wheels, Rear w Sport Package		9.5Jx19 LM	9.5Jx19 LM	8.5Jx19 LM	8.5Jx19 LM	8.5Jx19 LM
Performance						
Top Speed	Km/h / mph	250 / 130	250 / 130	240 / 130	240 / 130	240 / 130
Top Speed w Sport Package	Km/h / mph	250 / 155	250 / 155	240 / 130	240 / 130	240 / 130
Acceleration, 0-60 mph	sec.	4.7	4.8	5.4	4.6	4.6
Acceleration, 0-100 Km/h	sec.	4.9	5	5.7	4.8	4.9
Fuel Economy, Estimate - City *	mpg	TBA	TBA	TBA	TBA	TBA
Fuel Economy, Estimate - Highway *	mpg	TBA	TBA	TBA	TBA	TBA
Fuel Economy, Estimate - Combined*	mpg	TBA	TBA	TBA	TBA	TBA
Approximate Range*	km / miles	TBA	TBA	TBA	TBA	TBA

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