

BMW

U.S. Media Information

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Technical Data.

2012 BMW 3 Series Sedan

		328i	328i	335i	335i
		Sedan	Sedan	Sedan	Sedan
02.06.2012		Manual 6 Speed	Auto 8 Speed	Manual 6 Speed	Auto 8 Speed
Body		F30	F30	F30	F30
No. of Doors / Seating Capacity	-	4 / 5	4 / 5	4 / 5	4 / 5
Vehicle Length	mm / inch	4636 / 182.5	4636 / 182.5	4636 / 182.5	4636 / 182.5
Vehicle Width	mm / inch	1811 / 71.3	1811 / 71.3	1811 / 71.3	1811 / 71.3
Vehicle Height, Unloaded	mm / inch	1429 / 56.3	1429 / 56.3	1429 / 56.3	1429 / 56.3
Wheelbase	mm / inch	2810 / 110.6	2810 / 110.6	2810 / 110.6	2810 / 110.6
Turning Circle	m / ft	11.3 / 37.1	11.3 / 37.1	11.3 / 37.1	11.3 / 37.1
Track, Front	mm / inch	1531 / 60.3	1531 / 60.3	1537 / 60.5	1537 / 60.5
Track, Rear	mm / inch	1572 / 61.9	1572 / 61.9	1578 / 62.1	1578 / 62.1
Ground Clearance	mm / inch	140 / 5.5	140 / 5.5	140 / 5.5	140 / 5.5
Width at Shoulderheight, Front	mm / inch	1400 / 55.1	1400 / 55.1	1400 / 55.1	1400 / 55.1
Width at Shoulderheight, Rear	mm / inch	1400 / 55.1	1400 / 55.1	1400 / 55.1	1400 / 55.1
Effective Leg Room, Front	mm / inch	1068/ 42.0	1068/ 42.0	1068/ 42.0	1068/ 42.0
Effective Leg Room, Rear	mm / inch	892 / 35.1	892 / 35.1	892 / 35.1	892 / 35.1
Effective Head Room, Front	mm / inch	1023 / 40.3	1023 / 40.3	1023 / 40.3	1023 / 40.3
Effective Head Room, Rear	mm / inch	957 / 37.7	957 / 37.7	957 / 37.7	957 / 37.7
Trunk Volume acc SAE1100	ft³	13	13	13	13
Fuel Capacity	L / gal	60 / 15.8	60 / 15.8	60 / 15.8	60 / 15.8
Curb Weight	kg / lbs	1545 / 3406	1570 / 3461	1620 / 3571	1630 / 3594
Weight Distribution, Front / Rear	%	49.5 / 50.5	50.0 / 50.0	50.9 / 49.1	51.5 / 48.5
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2000 / 4409	2020 / 4453	2060 / 4542	2070 / 4564
Payload	kg / lbs	410 / 904	410 / 904	410 / 904	410 / 904
Axle Load Limit, front	kg / lbs	935 / 2061	935 / 2061	980 / 2161	980 / 2161
Axle Load Limit, rear	kg / lbs	1140 / 2513	1140 / 2513	1145 / 2524	1145 / 2524
Towing Capacity	kg / lbs	- / -	- / -	- / -	- / -
Roof Load Limit	kg / lbs	- / -	- / -	- / -	- / -
Drag Coefficient	Cd	0.29	0.29	0.30	0.30

		N20	N20	N55	N55
Engine Type / Cylinder / Valves per Cylinder	-	Inline / 4 / 4 VANOS	Inline / 4 / 4 VANOS	Inline / 6 / 4 VANOS	Inline / 6 / 4 VANOS
Engine Management System	-	MEVD Direct Injection	MEVD Direct Injection	MEVD 17.2 Direct Injection	MEVD 17.2 Direct Injection
Induction System	Bar	Twin scroll turbo Valvetronic	Twin scroll turbo Valvetronic	Twin scroll turbo Valvetronic	Twin scroll turbo Valvetronic
Boost Pressure	Bar	1.3	1.3	0.6	0.6
Displacement	cm³ / inch³	1997 / 122	1997 / 122	2979 / 181.8	2979 / 181.8
Stroke	mm / inch	90.1 / 3.5	90.1 / 3.5	89.6 / 3.53	89.6 / 3.53
Bore	mm / inch	84 / 3.3	84 / 3.3	84 / 3.31	84 / 3.31
Power	SAE hp / rpm	240 / 5000	240 / 5000	300 / 5800	300 / 5800
Torque	ft lbs / rpm	255 / 1250-4800	255 / 1250-4800	300 / 1200-5000	300 / 1200-5000
Compression Ratio / Fuel type	-	10.0 / Premium	10.0 / Premium	10.2 / Premium	10.2 / Premium

Chassis and Suspension

Codification of Reference Gearbox	-	I-350 Turbo	8HP45	K	8HP45
Gear Ratios	I	3.683	4.714	4.714	4.714
	II	2.062	3.143	2.315	3.143
	III	1.313	2.106	1.542	2.106
	IV	1.000	1.667	1.179	1.667
	V	0.809	1.285	1.000	1.285
	VI	0.677	1.000	0.846	1.000
	VII		0.839		0.839
	VIII		0.667		0.667
Reverse Ratio	-	3.348	3.295	3.727	3.295
Final Drive Ratio	-	3.909	3.154	3.231	3.154
Steering Type / Ratio	-	Rack-and-pinion / 15:1	Rack-and-pinion / 15:1	Rack-and-pinion / 15:1	Rack-and-pinion / 15:1
Front Brakes / Diameter	- / mm / inch	Vent. Disc / 312/12.3	Vent. Disc / 312/12.3	Vent. Disc / 340/13.4	Vent. Disc / 340/13.4
Rear Brakes / Diameter	- / mm / inch	Vent. Disc / 300/11.8	Vent. Disc / 300/11.8	Vent. Disc / 330/13.0	Vent. Disc / 330/13.0
Tire Type, Front	-	225/55 R17 94V RSC AS	225/55 R17 94V RSC AS	225/45 R18 91V RSC AS	225/45 R18 91V RSC AS
Tire Type, Rear	-	225/55 R17 94V RSC AS	225/55 R17 94V RSC AS	225/45 R18 91V RSC AS	225/45 R18 91V RSC AS
Tire Type, Front w. Sport Package	-	225/45 R18Y RSC	225/45 R18Y RSC	225/40 R19 RSC	225/40 R19 RSC
Tire Type, Rear w. Sport Package	-	225/45 R18Y RSC	225/45 R18Y RSC	255/35 R19 RSC	255/35 R19 RSC
Wheels, Front	-	7.5 J x 16 Light alloy	7.5 J x 16 Light alloy	8 J x 18 Light alloy	8 J x 18 Light alloy
Wheels, Rear	-	7.5 J x 16 Light alloy	7.5 J x 16 Light alloy	8 J x 18 Light alloy	8 J x 18 Light alloy
Wheels, Front w. Sport Package	-	8 J x 18 Light alloy	8 J x 18 Light alloy	8J x 19 Light alloy	8J x 19 Light alloy
Wheels, Rear w. Sport Package	-	8 J x 18 Light alloy	8 J x 18 Light alloy	8.5J x 19 Light alloy	8.5J 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	250 / 155	250 / 155	250 / 155	250 / 155
Acceleration, 0-60 mph	s	5.7	5.9	5.4	5.4
Acceleration, 0-100 Km/h	s	6.1	6.3	5.7	5.7
Fuel Economy, EPA Estimate - City	mpg	23	24	20	23
Fuel Economy, EPA Estimate - Highway	mpg	34	36	30	33
Fuel Economy, EPA Estimate - Combined	mpg	27	28	23	26
Approximate Range	km / miles	680 / 425	705 / 440	575 / 360	660 / 410

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Technical Data.

2012 BMW 3 Series Sedan

		328i xDrive Sedan Auto 6 Speed	328i xDrive Sedan Manual 6 Speed	335i xDrive Sedan Auto 6 Speed	335i xDrive Sedan Manual 6 Speed
02.06.2012					
Body					
No. of Doors / Seating Capacity	-	4 / 5	4 / 5	4 / 5	4 / 5
Vehicle Length	mm / inch	4541 / 178.8	4541 / 178.8	4541 / 178.8	4541 / 178.8
Vehicle Width	mm / inch	1817 / 71.5	1817 / 71.5	1817 / 71.5	1817 / 71.5
Vehicle Height, Unloaded	mm / inch	1421 / 55.9	1421 / 55.9	1421 / 55.9	1421 / 55.9
Wheelbase	mm / inch	2760 / 108.7	2760 / 108.7	2760 / 108.7	2760 / 108.7
Turning Circle	m / ft	11.8 / 38.7	11.8 / 38.7	11.8 / 38.7	11.8 / 38.7
Track, Front	mm / inch	1500 / 59.1	1500 / 59.1	1500 / 59.1	1500 / 59.1
Track, Rear	mm / inch	1529 / 60.2	1529 / 60.2	1529 / 60.2	1529 / 60.2
Width at Shoulderheight, Front	mm / inch	1408 / 55.4	1408 / 55.4	1408 / 55.4	1408 / 55.4
Width at Shoulderheight, Rear	mm / inch	1399 / 55.1	1399 / 55.1	1399 / 55.1	1399 / 55.1
Effective Leg Room, Front	mm / inch	1054 / 41.5	1054 / 41.5	1054 / 41.5	1054 / 41.5
Effective Leg Room, Rear	mm / inch	879 / 34.6	879 / 34.6	879 / 34.6	879 / 34.6
Effective Head Room, Front	mm / inch	978 / 38.5	978 / 38.5	978 / 38.5	978 / 38.5
Effective Head Room, Rear	mm / inch	953 / 37.5	953 / 37.5	953 / 37.5	953 / 37.5
Trunk Volume acc SAE1100	ft³	12	12	12	12
Fuel Capacity	L / gal	61 / 16.1	61 / 16.1	61 / 16.1	61 / 16.1
Curb Weight	kg / lbs	1655 / 3649	1635 / 3605	1735 / 3825	1730 / 3814
Weight Distribution, Front / Rear	%	52.9 / 47.1	52.6 / 47.4	53.9 / 46.1	53.8 / 46.2
Gross Vehicle Weight Rating (GVWR)	kg / lbs	2135 / 4707	2115 / 4663	2215 / 4883	2210 / 4872
Payload	kg / lbs	461 / 1014	460 / 1014	463 / 1014	462 / 1014
Axle Load Limit, front	kg / lbs	1045 / 2304	1045 / 2304	1105 / 2436	1105 / 2436
Axle Load Limit, rear	kg / lbs	1140 / 2513	1140 / 2513	1155 / 2546	1155 / 2546
Towing Capacity	kg / lbs	- / -	- / -	- / -	- / -
Roof Load Limit	kg / lbs	75 / 165	75 / 165	75 / 165	75 / 165
Drag Coefficient	Cd	0.30	0.30	0.32	0.32
Drag Cd x A	m² / ft²	0.65 / 7.01	0.65 / 7.01	0.69 / 7.47	0.69 / 7.47
Engine					
		N52	N52	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	MSV80 Port Injection	MEVD 17.2 Direct Injection	MEVD 17.2 Direct Injection
Induction System	-	Natural Valvetronic	Natural Valvetronic	Twin scroll turbo Valvetronic	Twin scroll turbo Valvetronic
Boost Pressure	Bar	-	-	-	0.6
Displacement	cm³ / inch³	2996 / 182.8	2996 / 182.8	2979 / 181.8	2979 / 181.8
Stroke	mm / inch	88 / 3.46	88 / 3.46	89.6 / 3.53	89.6 / 3.53
Bore	mm / inch	85 / 3.35	85 / 3.35	84 / 3.31	84 / 3.31
Power	SAE hp / rpm	230 / 6500	230 / 6500	300 / 5800	300 / 5800
Torque	ft lbs / rpm	200 (270) / 2750	200 (270) / 2750	300 / 1200-5000	300 / 1200-5000
Compression Ratio / Fuel type	-	10.7 / Premium	10.7 / Premium	10.2 / Premium	10.2 / Premium
Chassis and Suspension					
Codification of Reference Gearbox	-	GM6	H	6HP19 Tü	K
Gear Ratios I	-	4.065	4.350	4.171	4.110
II	-	2.371	2.496	2.340	2.315
III	-	1.551	1.665	1.521	1.542
IV	-	1.200	1.230	1.143	1.179
V	-	0.853	1.000	0.867	1.000
VI	-	0.674	0.851	0.691	0.846
Reverse Ratio	-	3.200	3.938	3.403	3.727
Final Drive Ratio	-	3.91	3.38	3.46	3.08
Steering Type / Ratio	-	Rack-and-pinion / 18.2	Rack-and-pinion / 18.2	Rack-and-pinion / 18.2	Rack-and-pinion / 18.2
Front Brakes / Diameter	- / mm / inch	Vent. Disc / 312 / 12.3	Vent. Disc / 312 / 12.3	Vent. Disc / 348 / 13.7	Vent. Disc / 348 / 13.7
Rear Brakes / Diameter	- / mm / inch	Vent. Disc / 300 / 11.8	Vent. Disc / 300 / 11.8	Vent. Disc / 336 / 13.2	Vent. Disc / 336 / 13.2
Tire Type, Front	-	205/55 R16 91H RSC AS	205/55 R16 91H RSC AS	225/45 R17 91H RSC AS	225/45 R17 91H RSC AS
Tire Type, Rear	-	205/55 R16 91H RSC AS	205/55 R16 91H RSC AS	225/45 R17 91H RSC AS	225/45 R17 91H RSC AS
Tire Type, Front w. Sport Package	-	225/45 R17 V RSC	225/45 R17 V RSC	225/40 R18 W RSC	225/40 R18 W RSC
Tire Type, Rear w. Sport Package	-	255/40 R17 V RSC	255/40 R17 V RSC	255/35 R18 W RSC	255/35 R18 W RSC
Wheels, Front	-	7 J x 16 Light alloy	7 J x 16 Light alloy	8 J x 17 Light alloy	8 J x 17 Light alloy
Wheels, Rear	-	7 J x 16 Light alloy	7 J x 16 Light alloy	8 J x 17 Light alloy	8 J x 17 Light alloy
Wheels, Front w. Sport Package	-	8 J x 17 Light alloy	8 J x 17 Light alloy	8J x 18 Light alloy	8J x 18 Light alloy
Wheels, Rear w. Sport Package	-	8.5 J x 17 Light alloy	8.5 J x 17 Light alloy	8.5J x 18 Light alloy	8.5J x 18 Light alloy
Performance					
Top Speed	km/h / mph	210 / 130	210 / 130	210 / 130	210 / 130
Top Speed w/ Sport Package	km/h / mph	238 / 148	240 / 150	240 / 150	240 / 150
Acceleration, 0-60 mph	s	7.1	6.9	5.4	5.3
Acceleration, 0-100 Km/h	s	7.5	7.2	5.7	5.6
Fuel Economy, EPA Estimate - City	mpg	17	17	18	19
Fuel Economy, EPA Estimate - Highway	mpg	26	25	27	26
Fuel Economy, EPA Estimate - Combined	mpg	20	20	21	22
Approximate Range	km / miles	520 / 325	520 / 325	545 / 340	570 / 355