



Media Information
16th May 2012

Technical Data BMW M Cars 1978 to 2005.

The following datasheets have been taken without modification from the original press documents published at the time.

BMW M1 (1978-1981): Press kit, 12/1978.

BMW M635CSi (1984-1989): Press kit, 05/1984.

BMW M5 1st Generation (1984-1987): BMW Programme 1986, 09/1985.

BMW M3 1st Generation (1986-1991): Press kit BMW Motorsport 1987, 04/1987.

BMW M5 2nd Generation (1988-1995): Press kit, 08/1988.

BMW M3 2nd Generation (1992-1995): Press kit, 11/1992.

BMW M3 2nd Generation (1995-1999): Press kit, 07/1995.

BMW M roadster (1997-2002): Press kit, 1997.

BMW M coupé (1998-2002): Press kit, 1998.

BMW M5 3rd Generation (1998-2003): Press kit, 10/1998.

BMW M3 3rd Generation (2000-2006): Press kit, 09/2000.

BMW M3 CSL (2002-2003): Press kit, 03/2003.

BMW M5 4th Generation (2004-2010): Press kit, 09/2004.

BMW M6 (2005-2010): Press kit, 04/2005.

SPECIFICATIONS: BMW M1 - PRODUCTION VERSION

Engine	Water-cooled 6-cylinder inline, 4 valves per cylinder, twin overhead camshafts with duplex roller-chain drive; mounted midship
Displacement, cc/cu in.	3453/211
Bore, mm/in.	93.4/3.71
Stroke, mm/in.	84.0/3.31
Power at rpm, bhp DIN	277 at 6500
kW	204 at 6500
Torque at rpm, lb-ft	239 at 5000
Nm	330 at 5000
Maximum engine speed, rpm	7000
Mean piston speed at maximum power, m/sec / ft/sec	17.4/57.1
Compression ratio	9.0:1
Fuel delivery system	Kugelfischer-Bosch mechanical fuel injection; 3 double intake pipes with 6 throttles, 46-mm diameter each
Fuel octane rating required	98 RON
Fuel-tank capacity, l/Imp. gal.	2 x 58 = 116 / 22.5
Lubrication	full pressure with dry sump; triple suction pump at crankcase, pressure pump in oil reservoir

ELECTRICAL SYSTEM

Battery	12V/55 Ah
Generator	alternator 14V/65A
Ignition	contactless fully electronic digital, Magneti-Marelli; flywheel-determined timing
Sparkplugs	Bosch X 4 CS

CHASSIS

Frame	separate steel with fiberglass body	
Front suspension	unequal-length lateral A-arms, light alloy wheel carriers	
Rear suspension	unequal-length lateral A-arms, light alloy wheel carriers	
Shock absorbers/springs	Bilstein gas-filled/ concentric coils, adjustable for height	
Anti-roll bars	front	23-mm
	rear	19-mm
Brakes	internally ventilated fixed- caliper; dual hydraulic circuits, booster, pressure limiter for rear wheels	
Disc diameter, mm/in.	front	300/11.8
	rear	297/11.7
Disc thickness, mm/in.	front	32/1.26
	rear	26/1.02
Effective pad area, cm ² /in. ²	front	96/14.9 per wheel
	rear	69/10.7 per wheel
Handbrake	mechanically actuated separate calipers on rear discs	
Steering	rack & pinion; axially adjustable two-joint column	
Wheels	cast light alloy, front 7 x 16 in. rear 8 x 16 in. flat form for low aerodynamic drag	
Tires	Pirelli P7, front 205/55VR-16 rear 225/50VR-16	

POWER TRANSMISSION

Clutch	F & S hydraulically actuated 2-disc, dry	
Gearbox	ZF 5-speed manual with integrated final drive	
Ratios	1st gear	2.42
	2nd	1.61
	3rd	1.14
	4th	0.846
	5th	0.704
	reserve	2.86
Final drive ratio		4.22
Differential	limited slip, 40%	

DIMENSIONS, mm/in.

Wheelbase	2560/100.8
Track, front	1550/61.0
rear	1576/62.0
Length	4360/171.7
Width	1824/71.8
Height, unloaded	1140/44.9
Ground clearance, load	125/4.9
Turning circle, m/ft	13/42.7

WEIGHT, kg/lb

Curb weight, DIN 1300/2867

Max. permissible weight 1600/3528

PERFORMANCE

Acceleration time, sec 0 - 100 km/h 5.6

0 - 200 km/h 20.7

Maximum speed, km/h / mph 262/160

Fuel consumption according to
ECE method A70

90 km/h - 8.9 l/100 km

120 km/h - 10.2 l/100 km

ECE Cycle - 19.6 l/100 km

SPECIFICATIONS

BMW M 635 CSi

<u>Body</u>	4-seat, 2-door coupe
	All-steel monocoque body with a safety cell torsionally rigid on all planes, front and rear crumple zones with pre-determined deformation, integral rollover reinforcements. Hollow-cavity preservation, underfloor protection with 6 years' warranty against rust breaking through the body
<u>Engine</u>	24-valve 6-cylinder inline engine fitted longitudinally and at an angle at the front, two-piece light-alloy cylinder head, crossflow principle, spherical combustion chamber, two overhead camshafts, crankshaft with counterweights, two-stage electric fan
Capacity, effective	3453 cc (210.6 cu in)
Bore/stroke	93.4/84 mm (3.68/3.31")
Compression ratio	10.5:1
Fuel	Premium
Max output at rpm	210 kW (286 bhp)/6500 rpm
Max torque at rpm	340 Nm (250 ft/lb)/4500 rpm
Fuel supply	Digital Motor Electronics
<u>Electrical system</u>	
Alternator output	80 A/1120 W
Battery	90 Ah
<u>Transmission</u>	
Gearbox ratios	I = 3.51 II = 2.08 III = 1.35 IV = 1.00 V = 0.81 R = 3.71
Final drive ratio	3.73
Front suspension	Double-joint spring strut axle, small positive steering roller radius, displaced caster

Rear suspension	Independent suspension on semi-trailing arms swept back at an angle of 13°
Brakes front/rear	4-piston fixed-calliper vented disc brakes (dia 300 mm/11.81", thickness 30 mm/1.18")/fixed-calliper disc brakes with extra-large piston, integrated hand brake drums
<u>Weights and dimensions</u>	
Tyres/wheels	220/55 VR 390/165 TR 390, aluminium
Turning circle	11.6 m (38 ft)
Wheelbase	2625 mm (103.34")
Track front/rear	1430/1464 mm (56.30/57.64")
Length/width/height	4755/1725/1353 mm (187.20/67.91/53.27")
Weight, empty	1500 kg (3308 lb)
Power-to-weight ratio	7.1 kg/1 kW
Max load	350 kg (772 lb)
Max permissible weight	1850 kg (4079 lb)
Roof load	75 kg (165 lb)
Luggage compartment capacity, absolute/VDA standard	430/335 ltr (15.05/11.73 cu ft)
<u>Fuel consumption</u>	
at 90 km/h (56 mph)	8.2 ltr (34.4 mpg)
at 120 km/h (75 mph)	10.2 ltr (27.7 mpg)
city cycle	16.5 ltr (17.1 mpg)
<u>Acceleration</u>	
0 -100 km/h (62 mph)	6.4 sec
80-120 km/h (50-75 mph) (5th gear)	10.7 sec
Top speed	255 km/h (158 mph)

COMPARISON OF TECHNICAL DATA BMW M3 ROAD-GOING AND GROUP A VERSION		M3	M3 Group A
Body Dimensions and weights	No of doors	2	2
	No of seats	4	1
	Length/Width/Height (empty)	mm 4345/1680/1370	4355/1880/1330
	Wheelbase	mm 2565*	2565.5
	Track, front	mm 1412*	1412
	rear	mm 1424	1424
	Turning circle	m 11.1	-
	Fuel tank capacity/range	l/km 70/840	110
	Unladen weight	kg 1200	960 min.
	Max. load	kg 400	-
Engine	Max. permissible weight	kg 1600	-
	Max. trailer load	kg -	-
	braked max. gradient 12%	kg -	-
	unbraked	kg -	-
	Max. roof load	kg 75	-
	Max. trailer nose weight	kg -	-
	Luggage capacity/VDA test	l 480/420 ¹⁾	-
	Layout	Inline	Inline
	No. of cylinders	4	4
	Mixture preparation	ML Motronic	Motronic
Chassis/power transmission		4 valves	4 valves
	Displacement, effective	cm ³ 2302	2332
	Bore/stroke	mm 93.4/84	94/84
	Compression/fuel grade	10.5/S	12.0/S
	Max. output	kW/PS 147/200	approx. 220/300
	- at engine speed	min ⁻¹ 6750	8000
	Max. torque	Nm 240	8000
	- at engine speed	min ⁻¹ 4750	270
	Battery	Ah 66 ¹⁾	26
	Alternator	A/W 90/1260	65/910
Performance characteristics	Front suspension	Single-joint spring strut axle with displaced camber; compensation of transverse forces; anti-squat reduction; small, positive steering roll radius	Single-joint spring strut axle; spring struts made of aluminium with adjustable spring plates for vehicle height adjustment; wheel mounting with central lock nut; adjustable anti-roll bar
	Rear suspension	Independent suspension at semi-trailing arms (sweep angle degrees); separate springs and dampers; anti-dive; sporty chassis	Independent suspension at reinforced semi-trailing arms with joint bearings and camber and toe-in adjustment; adjustable spring struts for vehicle height adjustment; wheel mounting with central lock nut
	Brakes front	Single-piston swing-calliper disc brakes, vented, ABS	4-piston alloy swing calliper, inner-vented brake disc, 32 mm thick, 332 mm diameter
	rear	Single-piston swing-calliper disc brakes with integrated drum hand brake, ABS	4-piston alloy swing calliper, inner-vented brake disc, 20.7 mm thick, 280 mm diameter
	Steering	Rack-and-pinion/Servo 19.6:1	2 main brake cylinders with balance bars, brake force distribution adjustable during motion, adjustable hand brake
	Final drive ratio	3.25:1	Rack-and-pinion 17:1
	Gear ratios	I 3.72:1	from 3.25:1 to
		II 2.40:1	5.28:1
		III 1.77:1	2.337:1
		IV 1.26:1	1.681:1
		V 1.00:1	1.358:1
		R 4.23:1	1.150:1
	Tyres	205/55 VR	1.000:1
	Wheel	15 7 J x	235/590-16 or 245/610-17
	Power-weight ratio	kg/kW 8.2	9x16 or 9x17/LM three-part
	Torque-weight ratio	kg/Nm 5.0	
	Output per litre	kW/l 63.9	4.4
	Torque per litre	Nm/l 104.3	3.5
	Acceleration 0-100 km/h	s 6.7	94.2
	0-1000 m	s 27.	117.8
	in 4th gear 80-120 km/h	s 2	-
	Top speed	km/h 7.1	-
		235	281 with rear axle ratio 3.25:1
1) Battery in the boot from 1.4.1987			

	SPECIFICATIONS: BMW AUTOMOBILE MODEL RANGE		528 i	535 i	M 535 i	M 5
Body Dimensions and weights	No of doors		4	4	4	4
	No of seats		5	5	5	5
	Length/width/height (unladen)	mm	4620/1700/1415	4620/1710/1397	4604/1710/1397	4620/1700/1397
	Wheelbase	mm	2625	2628	2628	2625
	Track, front	mm	1430	1430	1430	1430
	Track, rear	mm	1460	1460	1460	1465
	Turning circle	m	10.5	11.05	11.05	11.3
	Fuel tank capacity/range ¹⁾	l/km	70/690	70/670	70/670	70/620
	Unladen weight ²⁾	kg	1340 (1360)	1370 (1390)	1390 (1410)	1430 (-)
	Max load	kg	510 (510)	510 (510)	510 (510)	470 (-)
Engine	Max permissible weight	kg	1850 (1870)	1880 (1900)	1900 (1920)	1900 (-)
	Max trailer load ²⁾					
	- braked, max gradient 12%	kg	1500	1500	1500	Towing trailer not permitted
	- unbraked	kg	500	500	500	75
	Max roof load	kg	75	75	75	75
	Max trailer nose weight	kg	50	50	50	-
	Luggage capacity, VDA test	l	460	460	460	450
	Layout		Inline	Inline	Inline	Inline
	No of cylinders		6	6	6	6
	Mixture preparation		L-Jetronic	Motronic	Motronic	Motronic 4 valves per cyl.
Chassis/power transmission	Displacement, effective	cc	2788	3430	3430	3453
	Bore/stroke	mm	86/80	92/86	92/86	93,4/84
	Compression ratio/fuel grade	:1	9.3/regular, unleaded	10.0/regular, unleaded	10.0/regular, unleaded	10.5/regular, unleaded
	Max output	kW/bhp	135/184	160/218	160/218	210/286
	- at engine speed	rpm	5800	5500	5500	6500
	Max torque	Nm	240	310	310	340
	- at engine speed	rpm	4200	4000	4000	4500
	Battery	Ah	55	66	66	90 ⁴⁾
	Alternator	A/W	80/1120	80/1120	80/1120	90/1260
	Front suspension		Double-pivot spring struts with castor angle offset, small positive steering scrub radius, lateral force compensation, brake dive reduction			
Performance	Rear suspension		Independent, with semi-trailing arms (13° trail angle), additional wheel locating link			
				Single-tube gas-filled shock absorbers	Firm suspension settings with single-tube gas-filled shock absorbers	
	Brakes, front		Single-piston floating calipers with thicker (25 mm) ventilated discs and modified calipers; antilock braking system (ABS)			4-piston fixed calipers, vented discs, antilock braking system (ABS)
	rear		Single-piston floating calipers with integrated handbrake drums; antilock braking system (ABS)			
	Steering		Ball and nut, with hydraulic power assistance dependent on engine speed			
			16.2:1	15.2:1	15.1:1	15.1:1
	Final drive ratio		3.46 ³⁾ (3.46)	3.07 (3.07)	3.07 (3.07)	-/3.73 (-)
	Gear ratios I	:1	3.83 (2.48)	3.83 (2.48)	3.83 (2.48)	-/3.51 (-)
	II	:1	2.20 (1.48)	2.20 (1.48)	2.20 (1.48)	-/2.08 (-)
	III	:1	1.40 (1.00)	1.40 (1.00)	1.40 (1.00)	-/1.35 (-)
Fuel consumption	IV	:1	1.00 (0.73)	1.00 (0.73)	1.00 (0.73)	-/1.00 (-)
	V	:1	0.81 (-)	0.81 (-)	0.81 (-)	-/0.81 (-)
	Reverse	:1	3.46 (2.09)	3.46 (2.09)	3.46 (2.09)	-/3.71 (-)
	Tyres		200/60 VR 390	220/55 VR 390	220/55 VR 390	220/55 VR390
	Wheels		165 TR 390/ light-alloy	165 TR 390/ light-alloy	165 TR 390/ light-alloy	165 TR 390/ light-alloy
	Power-weight ratio	kg/kW	9.9 (10.1)	8.6 (8.7)	8.7 (8.8)	6.8
	Torque-weight ratio	kg/Nm	5.6 (5.7)	4.4 (4.5)	4.5 (4.5)	4.2
	Output per litre	kW	48.4	46.6	46.6	60.8
	Torque per litre	Nm	86.1	90.4	90.4	98.4
	Acceleration, 0-100 km/h	s	8.4 (10.8)	7.2 (8.9)	7.2 (8.9)	6.5 (-)
Fuel consumption	0-1000 m	s	29.4 (31.6)	28.0 (29.6)	28.0 (29.6)	26.8 (-)
	80-120 km/h in direct gear	s	10.9	9.8	9.8	7.7
	Top speed	km/h	215 (208)	225 (219)	230 (223)	245 (-)
	5-speed/5-speed sports gearbox					
	- at steady 90 km/h		7.0/7.9	7.3/8.3	7.3/8.3	-/7.8
	- at steady 120 km/h		9.0/9.6	9.3/10.2	9.0/9.9	-/9.7
	- urban cycle		14.7/15.5	15.0/16.0	15.0/16.0	-/16.5
	- average		10.2/11.0	10.5/11.5	10.4/11.4	-/11.3
	4-speed automatic transmission					
	without/with EH control					
Fuel consumption	- at steady 90 km/h		6.9/-	-/7.1	-/7.1	-/-
	- at steady 120 km/h		9.0/-	-/9.1	-/8.8	-/-
	- urban cycle		14.9/-	-/15.9	-/15.9	-/-
	- average		10.3/-	-/10.7	-/10.6	-/-

() Figures in brackets: with automatic transmission

1) With standard gearbox, related to average ECE test consumption

2) An increase is possible if certain conditions are satisfied

3) With sports gearbox option, 3.25:1

4) Battery in luggage compartment

	SPECIFICATIONS BMW CAR RANGE		M5 CAT*			
Body Dimensions and weights	No. of doors		4			
	No. of seats		4			
	Length/width/height (unladen)	mm	4720/1751/1392			
	Wheelbase	mm	2761			
	Track, front	mm	1472			
	rear	mm	1495			
	Turning circle	m	11.0			
	Fuel tank capacity/range ¹⁾	ltr/km	90/750			
	Unladen weight	kg	1670			
	Max load	kg	430			
	Max permissible weight	kg	2100			
	Max trailer load ²⁾					
	— braked, max gradient 12 %	kg	1400			
	— unbraked	kg	700			
Engine	Max roof load	kg	100			
	Max trailer nose weight ¹⁾	kg	75			
	Luggage capacity, VDA test	ltr	460			
	Drag coefficient/front area	Cd × A	0.32 × 2.07			
	Layout		Inline			
	No of cylinders		6			
	Mixture preparation		Motronic: 4 valves			
Engine	Displacement, effective	cc	3535			
	Bore/stroke	mm	93.4/86			
	Compression ratio/fuel grade	:1	10.0/premium unleaded			
	Max output	kW/bhp	232/315			
	— at engine speed	rpm	6900			
	Max torque	Nm	360			
	— at engine speed	rpm	4750			
El.	Battery	Ah	85			
	Alternator	A/W	115/1610			
Chassis/power transmission	Front suspension		Double-pivot spring struts with castor angle offset, positive steering scrub radius, lateral force compensation, brake dive reduction			
	Rear suspension		Independent with precision semi-trailing arms (13° trail angle), auxiliary trailing arms, squat and brake dive reduction			
	Brakes, front		Single-piston fist-callipers			
	rear		Single-piston fist-callipers with integrated handbrake drums			
	Steering		Ball and nut, with hydraulic power assistance dependent on engine speed 13.5 : 1			
	Final drive ratio		3.91			
	Gear ratios I	:1	3.51			
	II	:1	2.08			
	III	:1	1.35			
	IV	:1	1.00			
	V	:1	0.81			
Performance	Reverse	:1	3.71			
	Tyres		235/45 ZR 17			
	Wheels		8 J × 17 Alu			
	Power-weight ratio	kg/kW	7.2			
	Torque-weight ratio	kg/Nm	4.6			
	Output per litre	kW/ltr	65.6			
	Torque per litre	Nm/ltr	101.8			
	Acceleration, 0—100 km/h	sec	6.3			
	0—1000 m	sec	26.0			
	80—120 km/h in direct gear	sec	7.6			
	Top speed	km/h	250 ³⁾			
Fuel consumption	5-speed/5-speed sports gearbox					
	— at steady 90 km/h	ltr/100 km	8.2/—			
	— at steady 120 km/h		9.4/—			
	— urban cycle		18.1/—			
	— average		11.9/—			
	4-speed automatic transmission without/with EH control					
	— at steady 90 km/h	ltr/100 km	—/—			
	— at steady 120 km/h		—/—			
	— urban cycle		—/—			
	— average		—/—			

1) With standard gearbox, related to average ECE consumption

2) May be increased under certain conditions

3) Governed

* Also with preparation for catalytic converter installation as an option

		COUPÉ			
SPECIFICATIONS: BMW CAR RANGE		318is	320i	325i	M3
Body Dimensions and weights	No of doors	2	2	2	2
	No of seats	5	5	5	5
	Length/width/height (unladen)	mm 4433/1710/1366	mm 4433/1710/1366	mm 4433/1710/1366	mm 4433/1710/1365
	Wheelbase	mm 2700	mm 2700	mm 2700	mm 2700
	Track, front	mm 1408	mm 1408	mm 1408	mm 1422
	Track, rear	mm 1421	mm 1421	mm 1421	mm 1444
	Turning circle	m 10.4	m 10.4	m 10.4	m 10.7
	Fuel tank capacity/range ¹⁾	l/km 65/785 (765)	l/km 65/740 (755)	l/km 65/740 (755)	l/km 65/710
	Unladen weight	kg 1240 (1280)	kg 1315 (1350)	kg 1330 (1365)	kg 1460
	Max load	kg 460 (460)	kg 460	kg 460	kg 470
Engine	Max permissible weight	kg 1700 (1740)	kg 1775 (1810)	kg 1790 (1825)	kg 1930
	Max trailer load ²⁾				
	– braked, max gradient 12%	kg 1300	kg 1400	kg 1400	–
	– unbraked	kg 600	kg 600	kg 600	–
	Max roof load	kg 75	kg 75	kg 75	kg 75
	Max trailer nose weight	kg 50/75*	kg 50/75*	kg 50/75*	–
	Luggage capacity, VDA test	l 405	l 405	l 405	l 405
	Drag coefficient/front area	Cd x A 0.31 x 1.91	Cd x A 0.31 x 1.91	Cd x A 0.31 x 1.91	Cd x A 0.32 x 1.88
	Layout	Inline	Inline	Inline	Inline
	No of cylinders/valves	4/4	6/4	6/4	6/4
Chassis/power transmission	Mixture preparation	Digital Motor Electronics	Digital Motor Electronics	Digital Motor Electronics	Digital Motor Electronics
	Displacement, effective	cc 1796	cc 1991	cc 2494	cc 2990
	Bore/stroke	mm 84/81	mm 80/66	mm 84/75	mm 86/85.8
	Compression ratio/fuel grade	:1 10.0/prem. unleaded	:1 11.0/prem. unleaded	:1 10.5/prem. unleaded	:1 10.8/98 ROZ
	Max output	kW/bhp 103/140	kW/bhp 110/150	kW/bhp 141/192	kW/bhp 210/286
	– at engine speed	rpm 6000	rpm 5900	rpm 5900	rpm 7000
	Max torque	Nm 175	Nm 190	Nm 245	Nm 320
	– at engine speed	rpm 4500	rpm 4200	rpm 4200	rpm 3600
	Battery/location	Ah 50/engine comp	Ah 65/luggage comp	Ah 65/luggage comp	Ah 65/luggage comp
	Alternator	A/W 70/980 (80/1120)	A/W 80/1120	A/W 80/1120	A/W 90/1260
Performance	Front suspension	Single-joint spring strut axle with displaced camber; small, positive steering roll radius; compensation of transverse forces; anti-dive			
	Rear suspension	Central-arm axle with longitudinal control arm and double track control arm; anti-squat and anti-dive			
	Brakes, front	Single-piston swing-caliper disc brakes, vented, ABS			
	rear	Single-piston swing-caliper disc brakes, (M3: vented) ABS			
	Steering/overall ratio	Rack-and-pinion, 16.8 : 1, (M3: variable) power-assisted			
	Final drive ratio	3.45 (4.45)	3.45 (3.45)	3.15 (3.15)	3.15
	Gear ratios I	:1 4.23 (2.40)	:1 4.23 (3.67)	:1 4.23 (3.67)	:1 4.20
	II	:1 2.52 (1.47)	:1 2.52 (2.00)	:1 2.52 (2.00)	:1 2.49
	III	:1 1.67 (1.00)	:1 1.67 (1.41)	:1 1.67 (1.41)	:1 1.66
	IV	:1 1.22 (0.72)	:1 1.22 (1.00)	:1 1.22 (1.00)	:1 1.24
Fuel consumption	V	:1 1.00 (–)	:1 1.00 (0.74)	:1 1.00 (0.74)	:1 1.00
	Reverse	:1 4.04 (2.00)	:1 4.04 (4.08)	:1 4.04 (4.08)	:1 3.89
	Tyres	205/60 R 15 91 V	205/60 R 15 91 V	205/60 VR 15	235/40 ZR 17
	Wheels	7 J x 15/alu	7 J x 15/alu	7 J x 15/alu	7½ J x 15/alu
	Power-weight ratio	kg/kW 12.0 (11.9)	kg/kW 12.0 (12.3)	kg/kW 9.4 (9.7)	kg/kW 7.0
	Torque-weight ratio	kg/Nm 7.1 (7.0)	kg/Nm 6.9 (7.1)	kg/Nm 5.4 (5.6)	kg/Nm 6.4
	Output per litre	kW/l 57.3 (57.3)	kW/l 55.2	kW/l 56.5	kW/l 71.0
	Torque per litre	Nm/l 97.4 (97.4)	Nm/l 95.4	Nm/l 98.2	Nm/l 107.0
	Acceleration, 0-100 km/h	sec 10.2 (11.6)	sec 10.0 (10.9)	sec 8.0 (8.8)	sec 6.0
	0-1000 m	sec 31.1 (32.7)	sec 30.9 (32.1)	sec 28.4 (29.65)	sec 25.6
Fuel consumption	80-120 km/h 4 th gear	sec 10.7 (–)	sec 10.2 (–)	sec 9.0 (8.4)	sec 6.4
	Top speed	km/h 213 (207)	km/h 214 (214)	km/h 233 (231)	km/h 250 ⁴⁾
	5-speed gearbox				
	– at constant 90 km/h	ltr/100 km 6.4 (6.4)	ltr/100 km 6.8 (6.1)	ltr/100 km 6.6 (6.0)	ltr/100 km 6.5
	– at constant 120 km/h	ltr/100 km 7.7 (7.9)	ltr/100 km 8.3 (7.7)	ltr/100 km 8.0 (7.4)	ltr/100 km 7.9
	– urban cycle	ltr/100 km 10.9 (11.3)	ltr/100 km 11.4 (12.1)	ltr/100 km 11.9 (12.3)	ltr/100 km 13.0
	– average	ltr/100 km 8.3 (8.5)	ltr/100 km 8.8 (8.6)	ltr/100 km 8.8 (8.6)	ltr/100 km 9.1

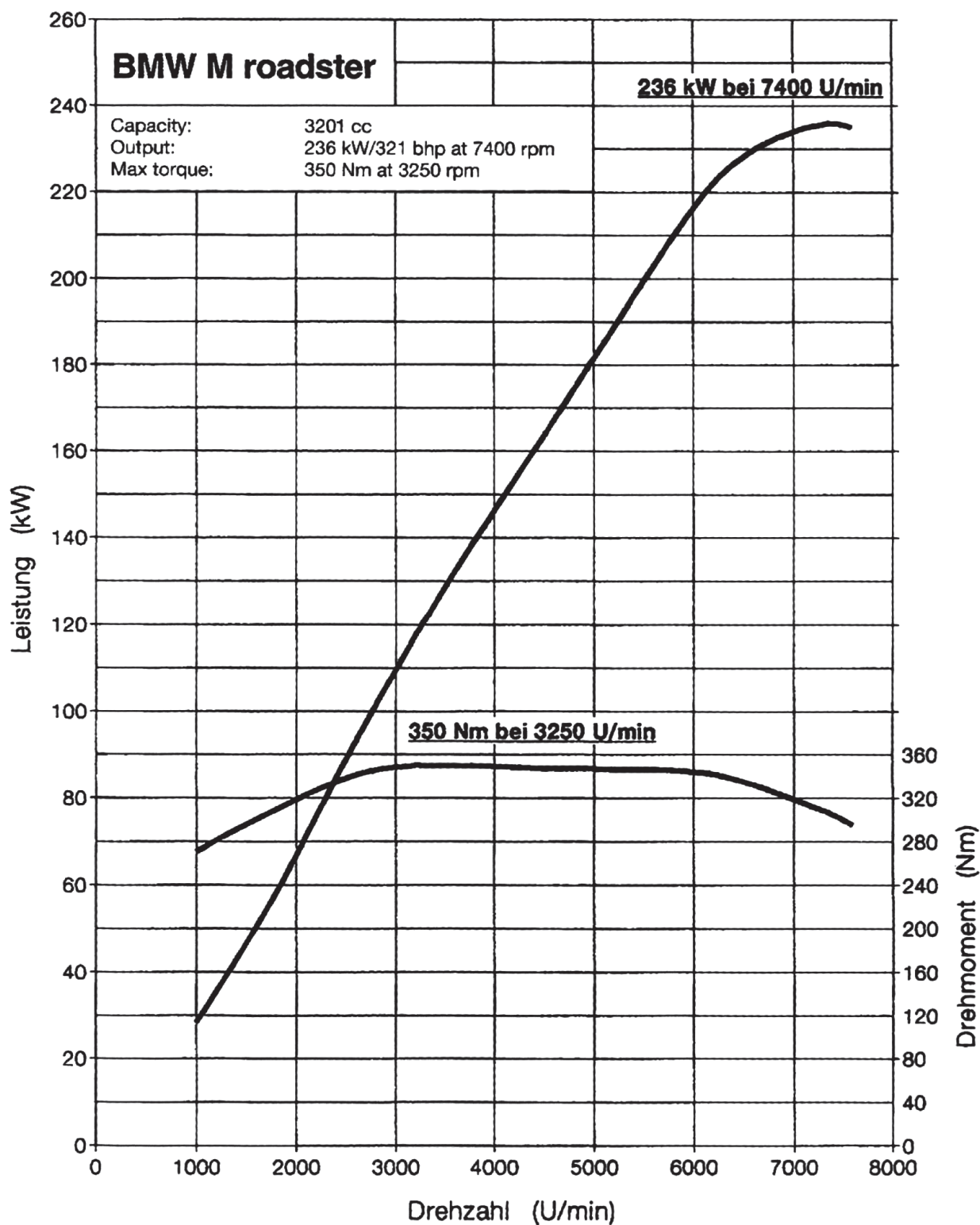
() Figures in brackets: with automatic transmission
* 75kg (165 lb) in conjunction with special rear axle springs for towing a trailer

1) With standard gearbox, related to average ECE test consumption
2) May be increased under certain conditions
4) Cut off electronically
(Not all footnotes are used on each data sheet)

	SPECIFICATIONS: BMW CAR RANGE		M3 Saloon		M3 Coupé		M3 Convertible		
Body Dimensions and weights	No of doors		4		2		2		
	No of seats		5		5		4		
	Length/width/height (unladen)		mm 4433/1710/1365		4433/1710/1335		4433/1710/1340		
	Wheelbase		mm 2710		2710		2710		
	Track, front		mm 1422		1422		1422		
	rear		mm 1438		1438		1438		
	Turning circle		m 11.6		11.6		11.6		
	Fuel tank capacity/range ¹⁾		ltr/km 65/740		65/740		65/730		
	Unladen weight (DIN)		kg 1460		1440		1560		
	Unladen weight (EC) ²⁾		kg 1535		1515		1635		
	Max load		kg 490		490		420		
	Max permissible weight		kg 1950		1930		1980		
	Max permissible axle load front/rear		kg 910/1120		910/1120		910/1130		
	Max trailer load ³⁾								
	- braked, max gradient 12%		kg -		-		-		
- unbraked		kg -		-		-			
Max roof load		kg 75		75		40			
Max trailer nose weight		kg -		-		-			
Luggage capacity, VDA test		ltr 435		405		230			
Drag coefficient/front area		Cd x A 0.32 x 1.96		0.32 x 1.91		0.32 x 1.91			
Engine	Layout		Inline						
	No of cylinders/valves		6/4						
	Mixture preparation		Digital						
			Motor Electronics MSS50						
	Displacement, effective		cc 3201						
	Bore/stroke		mm 86.4/91						
	Compression ratio/fuel grade		:1 11.3/ROM						
Chassis/power transmission	Max output		kW/bhp 236/321						
	- at engine speed		rpm 7400						
	Max torque		Nm 350						
	- at engine speed		rpm 3250						
EI.	Battery/location		Ah 65/luggage comp		65/luggage comp		65/luggage comp		
	Alternator		A/W 90/1260		90/1260		90/1260		
	Front suspension		Single-joint spring strut axle with displaced camber; small, positive steering roll radius; compensation of transverse forces; anti-dive						
	Rear suspension		Central-arm axle with longitudinal control arm and double track control arm; anti-squat and anti-dive						
	Brakes, front		Single-piston swing-caliper disc brakes, vented, ABS						
	vented, ABS								
	rear		Single-piston swing-caliper disc brakes, vented, ABS						
	Steering/overall ratio		Rack-and-pinion, 17.8 power-assisted						
	Final drive ratio		3.23						
	Gear ratios		I :1 4.23						
Performance	II		:1 2.51						
	III		:1 1.67						
	IV		:1 1.23						
	V		:1 1.00						
	VI		:1 0.83						
	Reverse		:1 3.75						
	Tyres		VA: 225/45 ZR 17 on 7 1/2 J x 17						
	Wheels		HA: 245/40 ZR 17 on 8 1/2 J x 17						
	Power-weight ratio		kg/kW 6.2		6.1		6.6		
	Torque-weight ratio		kg/Nm 4.2		4.1		4.5		
Output per litre		kW/ltr 73.7		73.7		73.7			
Torque per litre		Nm/ltr 109.3		109.3		109.3			
Performance	Acceleration, 0-100 km/h		sec 5.5		5.5		5.6		
	0-1000 m		sec 24.7		24.7		25.0		
	80-120 km/h 4 th gear		sec 5.7		5.7		6.1		
	Top speed		km/h 250 ⁴⁾		250 ⁴⁾		250 ⁴⁾		
Fuel consumption	Combined cycle fuel consumption		EC cycle						
	- at steady 90 km/h		EC in town ltr/100 km		6.0 16.9		6.0 16.9		
	- at steady 120 km/h		EC out of town		7.3 7.5		7.3 7.5		
	- urban cycle		EC overall		13.0 11.0		13.0 11.0		
	- average		CO ₂		8.7 275		8.7 275		
() Figures in brackets: with automatic transmission									
2) Weight, unladen, including 75 kg for driver									
1) With standard gearbox, related to average ECE test consumption									
2) May be increased under certain conditions									
3) Permissible roof load with hardtop: 30 kg									
4) Cut off electronically									
(Not all footnotes are used on each data sheet)									
(The copy and specifications apply to vehicles for the German market.									
Deviations from the model variants described here are possible in various countries.)									

BMW M roadster 6-cylinder four-valve engine (1997 model year)

Output and torque diagram



				Z3 roadster			
Specifications: BMW car range				Z3 1.8	Z3 1.9	Z3 2.8	M roadster
Body, dimensions and weights	No of doors/seats			2/2	2/2	2/2	2/2
	Length/width/height (unladen)	mm	4025/1692/1288	4025/1692/1288	4025/1692/1288	4025/1740/1293	4025/1740/1266
	Wheelbase	mm	2446	2446	2446	2446	2459
	Track, front/rear	mm	1411/1427	1411/1427	1413/1494	1422/1492	
	Turning circle	m	10.0	10.0	10.0	10.4	
	Fuel tank capacity	ltr	51	51	51	51	
	Cooling system incl heater	ltr	6.4	6.6	10.5	10.75	
	Engine oil	ltr	4.0	5.0	6.5	5.5	
	Transmission fluid	ltr	1.1	1.0 *	1.2 *	1.2	
	Final drive fluid	ltr	1.1	1.0	1.7	1.4	
	Weight, unladen (DIN)	kg	1160	1185 (1225)	1260 (1300)	1350	
	Weight, unladen (EC) °	kg	1235	1260 (1300)	1335 (1375)	1425	
	Max load	kg	250	250	250	250	
	Vehicle gross weight	kg	1410	1435 (1475)	1510 (1550)	1600	
	Max permissible axle load, front/rear	kg	730/775	750/780	790/830	850/870	
	Max trailer load 1)						
	braked 12%, unbraked	kg	1200/600	1200/600	1200/600		
	Max roof load, trailer nose weight	kg	35/75	35/75	35/75	35/0	
	Luggage comp. capacity, VDA test	ltr	165	165	165	165	
Drag coefficient/front area	Cd x A	0.40 x 1.77	0.41 x 1.77	0.42 x 1.83	0.41 x 1.84		
Engine	Layout/ No of cylinders/valves		Inline / 4 / 2	Inline / 4 / 4	Inline / 6 / 4	Inline / 6 / 4	
	Engine management		BMS 43	M 5.2	Siemens MS41.0	MS S50	
	Displacement, effective	cc	1796	1895	2793	3201	
	Bore/stroke	mm	84.0/81.0	85.0/83.5	84.0/84.0	86.4/91.0	
	Compression ratio/fuel grade	:1	9.7/RON 91-98 2	10.0/RON 91-98 2	10.2/RON 91-98 2	11.3/RON 98	
	Max output	kW/bhp	85/115	103/140	141/192	236/321	
	at	rpm	5500	6000	5300	7400	
	Max torque	Nm	168	180	275	350	
	at	rpm	3900	4300	3950	3250	
El.	Battery/location	Ah/-	70/luggage comp.	70/luggage comp.	70/luggage comp.	70/luggage comp.	
	Alternator	A/W	80/1120	80/1120	80/1120	115/1610	
Chassis/power transmission	Front suspension		Single-joint spring strut axle with displaced camber; small, positive steering roll radius; compensation of transverse forces; anti-dive				
	Rear suspension		Independent suspension on semi-trailing arms (swept back by 15°); separate springs and dampers; anti-squat, and anti-dive				
	Brakes, front		Single-piston floating-calliper disc brakes				
	Diameter	mm	286	286	286, vented	315, vented	
	Brakes, rear		Single-piston floating-calliper disc brakes				
	Diameter	mm	272			312, vented	
	Driving stability system		ABS				
	Steering/overall ratio		Rack-and-pinion, power-assisted, 15.4:1				
	Transmission ratio	I	:1 4.23	4.23 (2.86)	4.20 (2.86)	4.2	
		II	:1 2.52	2.52 (1.62)	2.49 (1.62)	2.49	
		III	:1 1.66	1.66 (1.00)	1.66 (1.00)	1.66	
		IV	:1 1.22	1.22 (0.72)	1.24 (0.72)	1.24	
		V	:1 1.00	1.00 (-)	1.00 (-)	1.00	
		VI	:1 -	-	-	-	
	R	:1 4.04	4.04 (2.00)	3.89 (2.00)	3.89		
Rear axle ratio		3.45	3.45 (4.44)	3.15 (4.10)	3.15		
Tyres		205/60 R 15 91H	205/60 R 15 91 V	225/50 ZR 16	VA 225/45 ZR 17		
Wheels		6.5 J x 15 steel	7 J x 15 alu	7 J x 16 alu	7.5 J x 17 alu HA 245/40 ZR 17 9 J x 17 alu		
Performance	Power-weight ratio	kg/kW	13.6	11.5 (11.9)	8.8 (9.1)	5.7	
	Output per litre	kW/ltr	47.3	54.4	50.5	73.7	
	Acceleration	0-100 km/h	sec 10.5	9.5 (10.5)	7.1 (7.4)	5.4	
		0-1000 m	sec 31.8	30.6 (31.9)	27.5 (28.3)	24.4	
	in 4 th gear	80-120 km/h	sec 9.7	9.6 (-)	6.5 (-)	5.3	
	Top speed	km/h	194	205 (196)	218 (216)	250	
Fuel consumption	EC cycle	(ltr/100 km)					
	EC, in town		10.9	11.4 (12.7)	13.9 (14.9)	16.6	
	EC, out of town		5.9	6.0 (6.5)	7.3 (8.1)	7.9	
	EC, overall		7.8	8.0 (8.7)	9.7 (10.6)	11.1	
	CO ₂ , g/cm		184	189 (207)	231 (252)	268	

() Figures apply to car with automatic transmission

° Weight, unladen, including 75 kg for driver

* level held constant

1) May be increased under certain conditions

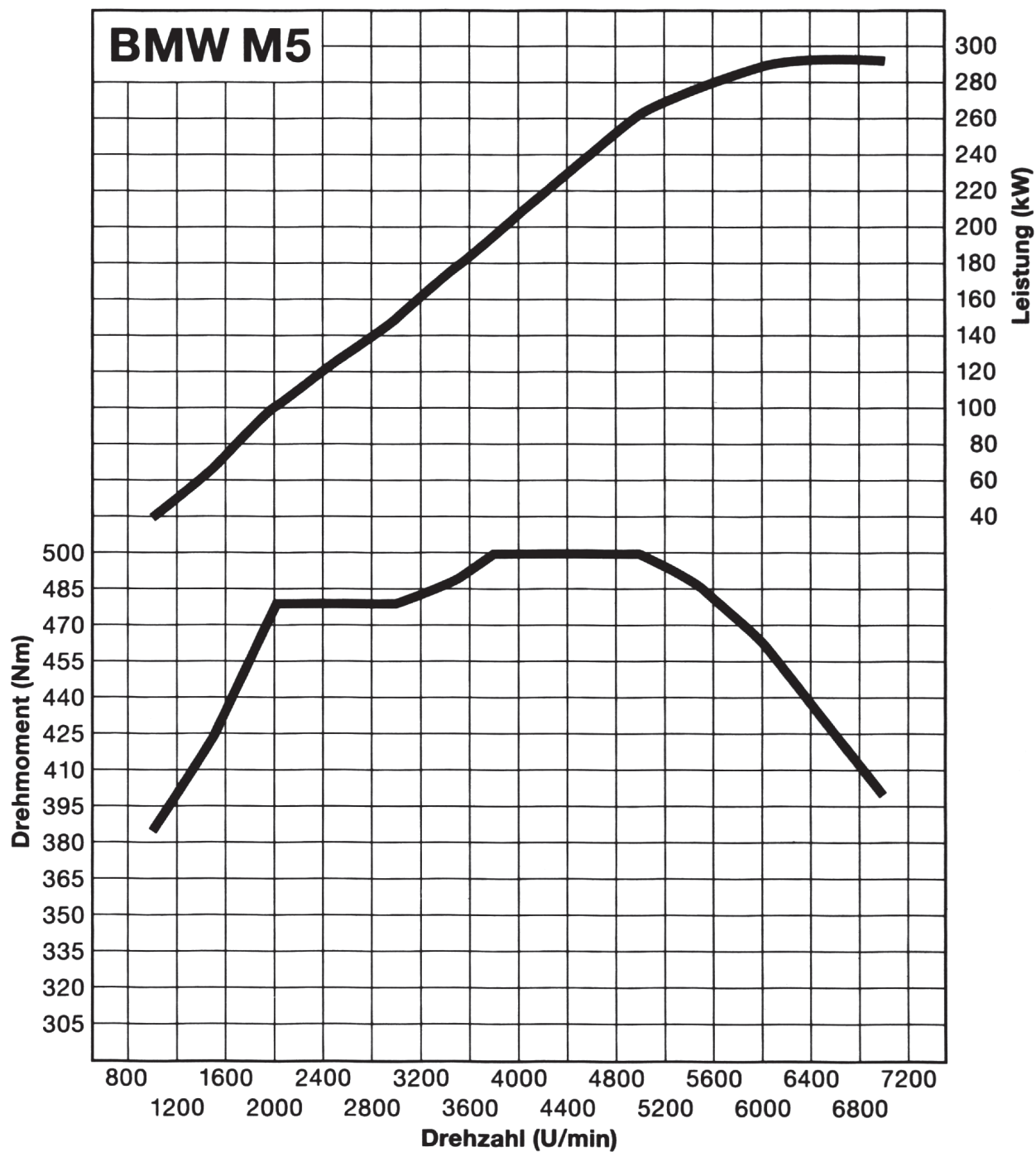
2) Performance and economy figures are based on ROM 95

These specifications are for the German market. Deviations from the model variants described here are possible in various countries.

BMW M5 V8 5,0 l

Leistungs- und Drehmomentdiagramm

A 99/169



			SALOON			
	Specifications: BMW car range		M5			
Body, dimensions and weights	No of doors/seats		4/5			
	Length/width/height (unladen)	mm	4784/1800/1432			
	Wheelbase	mm	2830			
	Track, front/rear	mm	1515/1527			
	Turning circle	m	11.6			
	Fuel tank capacity	ltr	70			
	Cooling system incl heater	ltr	11.45			
	Engine oil	ltr	7.5			
	Transmission fluid	ltr	1.8			
	Final drive fluid	ltr	1.2			
	Weight, unladen (DIN)	kg	1720			
	Weight, unladen (EU) °	kg	1795			
	Max load	kg	570			
	Max permissible weight	kg	2290			
	Max permissible axle load, front/rear	kg	1105/1225			
	Max trailer load					
	braked 12%, unbraked	kg	1800/750			
	Max roof load, trailer nose weight	kg	100/90			
Engine	Luggage comp. capacity, VDA test	ltr	460			
	Drag coefficient/front area	Cd x A	0.31 x 2.17			
	Layout/ No of cylinders/valves		V / 8 / 4			
	Engine management		MSS 52			
	Displacement, effective	cc	4941			
	Bore/stroke	mm	94.0/89.0			
	Compression ratio/fuel grade	:1	11.0/ROM 98			
	Max output	kW/bhp	294/400			
El.	at engine speed	rpm	6600			
	Max torque	Nm	500			
El.	at engine speed	rpm	3800			
	Battery/location	Ah/-	110/luggage comp.			
Chassis/power transmission	Alternator	A/W	120/1680			
	Front suspension		Tie-bar double-joint spring-strut axle, small, positive steering scrub; compensation of transverse forces; anti-dive			
	Rear suspension		Aluminium integral axle; multi-dimensional suspension with anti-squat and anti-dive			
	Brakes, front		Single-piston swing-caliper disc brakes			
	Diameter	mm	345, vented			
	Brakes, rear		Single-piston swing-caliper disc brakes			
	Diameter	mm	328, vented			
	Driving stability system		ABS, DSC			
	Steering, overall ratio		Hydraulic rack-and-pinion, 14.7:1			
	Type of transmission		6-sp man gearbox			
	Transmission ratio I	:1	4.227			
	II	:1	2.528			
	III	:1	1.669			
	IV	:1	1.226			
	V	:1	1.000			
	VI	:1	0.828			
	R	:1	3.746			
	Final drive ratio		3.150			
Performance	Tyres		front 245/40 ZR 18 rear 275/35 ZR 18			
	Wheels		front 8 J x 18 la rear 9.5 J x 18 la			
	Power-weight ratio	kg/kW	5.848			
	Output per litre	kW/ltr	59.5			
	Acceleration 0-100 km/h	sec	5.3			
	0-1000 m	sec	24.1			
Fuel consumption	in 4 th gear 80-120 km/h	sec	4.8			
	Top speed	km/h	250			
	EU cycle (ltr/100 km)					
	EU, urban		21.1			
	EU, extra-urban		9.8			
Fuel consumption	EU, composite		13.9			
	CO ₂ g/cm		336			

° Weight, unladen, including 75 kg for driver

These specifications are for the German market. Deviations from the model variants described here are possible in various countries.

				Z3 coupé (1999 model year)			
Specifications: BMW car range				Z3 2.8	M coupé		
Body, dimensions and weights	No of doors/seats			2/2	2/2		
	Length/width/height (unladen)	mm		4025/1740/1306	4025/1740/1280		
	Wheelbase	mm		2446	2459		
	Track, front/rear	mm		1413/1494	1422/1492		
	Turning circle	m		10.0	10.4		
	Fuel tank capacity	ltr		51	51		
	Cooling system incl heater	ltr		10.5	10.75		
	Engine oil	ltr		6.5	5.5		
	Transmission fluid	ltr		level held const.	level held const.		
	Final drive fluid	ltr		1.1	1.1		
	Weight, unladen (DIN)	kg		1300 (1340)	1390		
	Weight, unladen (EU) °	kg		1375 (1415)	1465		
	Max load	kg		270	270		
	Max permissible weight	kg		1570 (1610)	1660		
	Max permissible axle load, front/rear	kg		830/870	850/890		
	Max trailer load ¹⁾						
	braked 12%, unbraked	kg		1200/600	-		
Max roof load, trailer nose weight	kg		75/75	75/0			
Luggage comp. capacity, VDA test	ltr		210-410	210-410			
Drag coefficient/front area	Cd x A		0.37 x 1.83	0.37 x 1.84			
Engine	Layout/ No of cylinders/valves			Inline / 6 / 4	Inline / 6 / 4		
	Engine management			Siemens MS41.0	MS S50		
	Displacement, effective	cc		2793	3201		
	Bore/stroke	mm		84.0/84.0	86.4/91.0		
	Compression ratio/fuel grade	:1		10.2/RON 91-98 ²⁾	11.3/RON 98		
	Max output	kW/bhp		141/193	236/321		
	at	rpm		5500	7400		
	Max torque	Nm		280	350		
	at	rpm		3500	3250		
El.	Battery/location	Ah/-		70/luggage comp.	70/luggage comp.		
	Alternator	A/W		80/1120	115/1610		
Chassis/power transmission	Front suspension			Single-joint spring-strut axle with displaced camber; small, positive steering roll radius; compension of transverse forces; anti-dive			
	Rear suspension			Independent suspension on semi-trailing arms (swept back by 15°); separate springs and dampers; anti-squat, and anti-dive			
	Brakes, front			Single-piston floating-calliper disc brakes			
	Diameter	mm		286, vented	315, vented		
	Brakes, rear			Single-piston floating-calliper disc brakes			
	Diameter	mm		272	312, vented		
	Driving stability system			ABS, ASC+T	ABS		
	Steering, overall ratio			Rack-and-pinion, power-assisted			
				15.4:1	17.8:1		
	Transmission ratio I	:1		4.21 (2.86)	4.21		
	II	:1		2.49 (1.62)	2.49		
	III	:1		1.66 (1.00)	1.66		
	IV	:1		1.24 (0.72)	1.24		
	V	:1		1.00 (-)	1.00		
VI	:1		-	-			
R	:1		3.89 (2.00)	3.85			
Rear axle ratio			3.15 (4.10)	3.15			
Tyres			225/50 ZR 16	VA 225/45 ZR 17			
Wheels			7 J x 16 alu	7.5 J x 17 alu HA 245/40 ZR 17 9 J x 17 alu			
Performance	Power-weight ratio	kg/kW		9.2 (9.4)	5.8		
	Output per litre	kW/ltr		50.8	73.7		
	Acceleration 0-100 km/h	sec		6.8 (7.1)	5.4		
	0-1000 m	sec		27.3 (28.1)	24.4		
	in 4 th gear	sec		6.3 (-)	5.3		
	Top speed	km/h		231 (229)	250		
Fuel consumption	EU cycle (ltr/100 km)			12.9 (14.4)	16.6		
	EU, in town			7.4 (8.1)	7.9		
	EU, out of town			9.4 (10.4)	11.1		
	EU, overall			225 (249)	268		
	CO ₂ g/cm						

() Figures apply to car with automatic transmission
° Weight, unladen, including 75 kg for driver

1) May be increased under certain conditions
2) Performance and economy figures are based on ROM 95

These specifications are for the German market. Deviations from the model variants described here are possible in various countries.

Specifications BMW 3 Series coupé. M3.

Body		M3
No. of doors/seats		2/5
Length/width/height (unladen)	mm	4492/1780/1372
Wheelbase	mm	2731
Track, front/rear	mm	1508/1525
Turning circle	m	11.0
Fuel tank capacity/range	ca. ltr	63
Cooling system incl. heating	ltr	10.7
Engine oil	ltr	7
Transmission fluid	ltr	1.9
Final drive fluid	ltr	1.2
Weight, unladen (EU) ¹	kg	1570
Max. load (DIN)	kg	505
Max. permissible weight (DIN)	kg	2000
Max. permissible axle load, front/rear	kg	970/1140
Max. trailer load		
braked (12%/unbraked)	kg	–
Max. roof load/trailer nose weight	kg	75/–
Luggage compartment capacity, (VDA)	ltr	410
Drag coefficient	c _x x A	0.29 x 2.06
Engine		
Layout/No. of cylinders/valves		Inline/6/4
Engine management		MSS 54
Displacement	cc	3246
Bore/stroke	mm	87.0/91.0
Compression ratio/fuel grade		11.5:1 / ROM/98
Max. output	kW/bhp	252/343
At engine speed	rpm	7900
Max. torque	Nm/lb-ft	365/269
At engine speed	rpm	4900
Electric		
Battery/location	Ah/–	70/luggage compartment
Alternator	A/W	70
Chassis		
Front suspension	Single-joint spring-strut axle with displaced camber; small positive steering scrub Radius; compension of traverse forces; anti-dive	
Rear suspension	Central-arm axle with longitudinal control arm and double track control arm; anti-squat; anti-dive	
Brakes, front	Single-piston floating-caliper disc brakes	
Diameter	mm	325, vented
Brakes, rear	Single-piston floating-caliper disc brakes	
Diameter	mm	328, vented
Driving stability systems	ABS, CBC, DSC; M differential lock	
Steering	Rack-and-pinion, power assisted	
Overall ratio	15.4	
Type of transmission	6-sp man gearbox	
Transmission ratio	I	4.227
	II	2.528
	III	1.669
	IV	1.226
	V	1.000
	VI	0.828
	R	3.746
Final drive ratio	3.620	
Tyres front/rear	225/45 ZR18 / 255/40 ZR18	
Wheels front/rear	8J x 18 Alu / 9J x 18 Alu	
Performance		
Power to weight ratio	kg/kW	5.9
Output per litre	ltr/kW	77.6
Acceleration	0–100 km/h	s
	0–1000 m	s
		24.2
In 4 th gear	80–120 km/h	s
		5.3
Top speed	km/h	250 ²
Fuel consumption (EU-cycle)		
urban	ltr/100km	17.8
extra-urban	ltr/100km	8.4
composite	ltr/100km	11.9
CO ₂	g/km	287

¹ May be increased under certain conditions

² Performance and fuel consumption figures relate to ROM 98 fuel

Specifications. BMW 3 M3 CSL.

Body		
No. of doors/seats		2/4
Length/width/height (unladen)	mm	4,492/1,780/1,365
Wheelbase	mm	2,729
Track, front/rear	mm	1,518/1,525
Turning circle	m	11.0
Tank capacity	approx. ltr	63
Cooling system incl. heater	ltr	10.7
Engine oil	ltr	7.0
Transmission fluid	ltr	1.9
Final drive fluid	ltr	1.2
Unladen weight, EU ¹	kg	1,385
Max. load to DIN standard	kg	415
Max. permissible weight to DIN	kg	1,800
Max. axle load, front/rear	kg	880/1,020
Max. trailer load ²		
Braked (12%/unbraked)	kg	–
Max. roof load/max towbar download	kg	–/–
Luggage compartment to VDA st.	ltr	410
Air drag	c _x x A	0.683
Power unit		
Configuration/cylinders/valves		Straight/6/4
Engine management		MSS 54HP
Capacity	cc	3,246
Bore/stroke	mm	87.0/91.0
Compression ratio	:1	11.5
Fuel	RON	98
Output	kW/bhp	265/360
at	rpm	7,900
Torque	Nm (lb-ft)	370 (273)
at	rpm	4,900
Electrical system		
Battery/location	Ah/–	55/luggage comp
Alternator	A/W	120/1,680
Suspension		
Front	Single-joint spring strut axle with displaced castor; small positive steering roll radius, compensation of transverse forces, anti-dive	
Rear	Central-arm axle with longitudinal control arms and double track control arms, anti-squat and anti-dive	
Brakes, front	Single-piston swing-calliper disc brakes	
Diameter	mm	345 x 28, vented
Brakes, rear	Single-piston swing-calliper disc brakes	
Diameter	mm	328 x 20, vented
Driving stability systems	ABS, CBC, DSC; M differential lock	
Steering	Rack-and-pinion	
Overall steering transmission	:1	14.5
Transmission	Six-speed manual	
Transmission ratios	1 st	:1 4.227
	2 nd	:1 2.528
	3 rd	:1 1.669
	4 th	:1 1.226
	5 th	:1 1.000
	6 th	:1 0.828
	Rev	:1 3.746
Final drive ratio	:1	3.620
Tyres, front/rear	235/35 ZR19 / 265/30 ZR19	
Rims, front/rear	8.5J x 19 EH 2 IS 44 alu / 9.5J x 19 EH 2 IS 27 alu	
Performance		
Power-to-weight ratio to DIN stand	kg/kW	5.2
Output per litre	kW/bhp	81.6/111.0
Acceleration	0–100 km/h	sec 4.9
	Stand-start km	sec 23.5
In 4 th gear	80–120 km/h	sec 5.0
Top speed	km/h	250 ³
Fuel consumption (EU cycle)		
Urban	ltr/100km	17.8
Extra-urban	ltr/100 km	8.4
Composite	ltr/100 km	11.9
CO ₂	g/km	287
Other data		
Emission category	EU3	

¹Weight of car in road trim (DIN) plus 75 kg for driver and luggage.

²May be increased under certain conditions.

³Electronically limited.

Technical Specifications. BMW M5.

Body		M5
No. of doors/seats		4/5
Length/width/height (unladen)	mm	4,855/1,846/1,469
Wheelbase	mm	2,889
Track, front/rear	mm	1,580/1,566
Turning circle	m	12,4
Fuel tank capacity	approx. ltr	70
Cooling system incl. heating	ltr	15
Engine oil	ltr	13
Transmission fluid	ltr	2,6
Final drive fluid	ltr	1,2
Weight, unladen (EU ¹)	kg	1,830
Max. load (DIN)	kg	545
Max. permissible weight (DIN)	kg	2,300
Permissible axle load front/rear	kg	1,090/1,270
Max. trailer load ²		
braked (12%)/unbraked	kg	2,100/750
Max. roof load/trailer nose weight	kg	100/90
Luggage comp. capacity	ltr	500
Drag coefficient	c _x x A	0,701
Engine		
Layout/No. of cylinders/Valves		V10/4
Engine management		MS S65
Displacement	cc	4,999
Bore/Stroke	mm	92,0/75,2
Compression ratio	:1	12,0:1
Fuel grade	RON	98
Max. output	kW/bhp	373/507
At engine speed	rpm	7,750
Torque	Nm	520
At engine speed	rpm	6,100
Electrics		
Battery/Location	Ah/–	90/boot
Alternator	A/W	170/2,380
Chassis		
Front suspension	Double-joint tension rod spring-strut suspension with displaced camber; small positive steering scrub radius; traverse force compensation; anti-dive	
Rear suspension	Integral axle (aluminium), wheel suspension with special effect anti-squat/anti-dive	
Brakes, front	Double-piston floating-caliper Compound disc brakes	
Diameter	mm	374 x 36, vented and punched
Brakes, rear	Single-piston floating-caliper Compound disc brakes	
Diameter	mm	370 x 24, vented and punched
Driving Stability Systems	ABS, CBC, DSC, variable M differential lock	
Steering	rack-and-pinion steering, hydraulically assisted steering and Servotronic	
Overall ratio	:1	12.4
Type of transmission		SMG III
Transmission ratio I	:1	3.985
II	:1	2.652
III	:1	1.806
IV	:1	1.392
V	:1	1.159
VI	:1	1
VII	:1	0.833
R	:1	3.985
Final drive ratio	:1	3.620
Tyres	255/40 ZR 19/285/35 ZR 19	
Wheels	8,5 J x 19 EH 2 IS 12 Alloy/9,5 J x 19 EH 2 IS 28 Alloy	
Performance		
Power to weight ratio (DIN)	kg/kW	4.7
Output per litre	kW/ltr	74.6
Acceleration 0–62 mph	sec	4.7
0–1000 m	sec	22.7
50–75 mph in 4 th gear	sec	–
Top speed ³	km/h	250
Fuel consumption (EU cycle)		
In town	ltr/100 km	22.7
Out of town	ltr/100 km	10.2
Overall	ltr/100 km	14.8
CO ₂	g/km	357
Miscellaneous		
Emission classification		EU4

¹Weight of the car in road trim (DIN) plus 75 kg for driver and luggage.

²Deviations are possible under certain conditions.

³Electronically limited.

Specifications.

Body		M6
No. of doors/seats		2/2 + 2
Length/width/height (unladen)	mm	4,871/1,855/1,377
Wheelbase	mm	2,781
Track, front/rear	mm	1,567/1,584
Turning circle	m	12.5
Fuel tank capacity/range	approx. ltr	70
Cooling system incl. heater	ltr	15.0
Engine oil	ltr	13.0
Transmission fluid	ltr	1.2
Final drive fluid	ltr	2.6
Weight, unladen (EU) ¹	kg	1,710
Max. load (DIN)	kg	415
Max. permissible weight (DIN)	kg	2,200
Max. permissible axle load front/rear	kg	1,090/1,200
Max. trailer load ²		
braked (12%)/unbraked	kg	–
Max. roof load/trailer nose weight	kg	–
Luggage comp. capacity, VDA	ltr	450
Drag coefficient	c _x x A	0.32 x 2.15
Engine		
Layout/No. of cylinders/valves		V 90/10/4
Engine management		MS S65
Displacement	cc	4,999
Bore/stroke	mm	92.0/75.2
Compression	:1	12.0
Fuel grade ³	RON	95–98
Max. output	kW/bhp	373/507
At engine speed	rpm	7,750
Max. torque	Nm	520
At engine speed	rpm	6,100
Electronic		
Battery/location	Ah/–	90/Boot
Alternator	AW	1,70/2,380
Chassis		
Front suspension	Double-joint thrust-rod spring strut axle in aluminium; compensation of transverse forces; anti-dive.	
Rear suspension	Integral axle (aluminium), wheel suspension with special effect anti-squat/anti-dive	
Brakes, front	Single-piston floating-caliper disc brakes	
Diameter	mm	348, vented
Brakes, rear	Single-piston floating-caliper disc brakes	
Diameter	mm	345, vented
Driving stability system	ABS, DSC, CBC	
Steering	Rack-and-pinion, power-assisted	
Overall ratio	:1	12.4
Type of transmission		SMGIII
Transmission ratio	I	3.985
	II	2.652
	III	1.806
	IV	1.392
	V	1.159
	VI	1
	VII	0.833
	R	3.985
Final drive ratio	:1	3.62
Tyres, front	255/40 ZR19	
Tyres, rear	285/35 ZR19	
Wheels, front	8.5J x 19 EH 2 IS 12 Alu	
Wheels, rear	9.5J x 19 EH 2 IS 28 Alu	
Performance		
Power to weight ratio (DIN)	kg/kW	4.6
Output per litre	ltr/kW	74.6
Acceleration	0–100 km/h	s
	80–120 km/h	4.4/5.8
Top speed	Km/h	250 ²
Fuel consumption (EU cycle)		
urban	ltr/100 km	22.7
extra-urban	ltr/100 km	10.2
composite	ltr/100 km	14.8
CO ₂	g/km	357
Miscellaneous		
Emission classification		

The values given in parenthesis apply to the automatic transmission.

¹Weight of the car in road trim (DIN) plus 75 kg for driver and luggage.

²Deviations are possible under certain conditions.

³Performance and consumption figures relate to RON 98.