

Specifications. BMW M5.



BMW M5		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	4910 / 1891 / 1456
Wheelbase	mm	2964
Track, front/rear	mm	1627 / 1582
Ground clearance	mm	117
Turning circle	m	12.6
Tank capacity	approx. l	80
Cooling system incl. heating	l	18.5
Engine oil ¹⁾	l	8.4
Weight, unladen, to DIN/EU	kg	1870 / 1945
Max load to DIN	kg	540
Max permissible weight	kg	2410
Max axle load, front/rear	kg	1180 / 1260
Max trailer load, braked (12%/unbraked)	kg	2000 / 750
Max roof load/towbar download	kg	100 / 90
Luggage comp capacity	l	520
Air drag	c _x x A	0.33 x 2.40
Engine		
Configuration/No. of cyls./valves		V90 / 8 / 4
Engine technology		M TwinPower Turbo technology with cross-bank exhaust manifold, twin-scroll turbocharging, direct petrol injection (High Precision Injection), VALVETRONIC and Double-Vanos
Effective capacity	cm ³	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel grade		RON 98 (min. 95)
Output	kW/hp	412 / 560
at	min ⁻¹	6000 – 7000
Torque	Nm	680
at	min ⁻¹	1500 – 5750
Electrical system		
Battery/Installation	Ah/-	105 / luggage comp
Alternator	AW	210 / 2926
Driving dynamics and safety		
Suspension, front		Double track control arm with M-specific elastokinematics, small, negative steering roll radius, anti-dive
Suspension, rear		Integral-V multi-arm axle with M-specific elastokinematics, spatial suspension with anti-squat and anti-dive
Brakes, front		Six-piston fixed-calliper compound disc brakes
Diameter	mm	400 x 36 / vented
Brakes, rear		Single-piston fixed-calliper compound disc brakes
Diameter	mm	396 x 24 / vented
Driving stability systems		Standard: DSC incl. ABS, ASC and MDM (M Dynamic Mode), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Start-Off Assistant, Dynamic Damper Control, Active M Differential, systems linked to Integrated Chassis Management (ICM)
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for front and rear seats, three-point inertia-reel seatbelts on all seats with belt latch tensioner and belt force limiter at the front, crash-activated head restraints at the front, crash sensors, Tyre Defect Indicator
Steering		Hydraulic rack-and-pinion steering with M-specific Servotronic function
Steering ratio, overall	:1	18.0
Tyres, front/rear		265/40 R19 102Y 295/35 R19 104Y
Rims, front/rear		9J x 19 LM 10J x 19 LM

10/2011

Valid from
10/2011

BMW M5

BMW ConnectedDrive

Comfort	Optional: BMW Assist including features such as Enquiry Service, remote-control functions and Real-Time Traffic Information, BMW TeleServices, integration of mobile devices
Infotainment	Optional: internet access, BMW Online incl. Park Info, National Info, Google Local Search, News, Realtime Weather, BMW Routes, Office functions, Bluetooth Audio Streaming, Online Update Music Tracks, Apps
Safety	Optional: variable light distribution and adaptive headlight range control (standard), High Beam Assistant, Park Distance Control, rear-view camera, Surround View incl. Top View and Side View, BMW Night Vision with pedestrian detection, Head-Up Display (standard), Lane Change Warning, Lane Departure Warning, Speed Limit Info, Advanced eCall

Transmission

Type of gearbox	Seven-speed M double-clutch transmission with Drivelogic		
Gear ratios	I	:1	4.806
	II	:1	2.593
	III	:1	1.701
	IV	:1	1.277
	V	:1	1.000
	VI	:1	0.844
	VII	:1	0.671
	R	:1	4.172
Final drive		:1	3.150

Performance

Power-to-weight ratio	kg/kW	4.5	
Output per litre	kW/l	93.7	
Acceleration	0–100 km/h	s	4.4
	0–1000 m	s	21.9
in 4 th /5 th gear	80–120km/h	s	3.7 / 4.6
Top speed	km/h	250 / 305 ²⁾	

BMW EfficientDynamics

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Auto Start-Stop function, intelligent lightweight construction, on-demand operation of ancillary units, flow rate-controlled power steering pump, tyres with reduced rolling resistance
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Fuel consumption in EU Cycle

with standard tyres		
Urban	l/100km	14.0
Extra-urban	l/100km	7.6
Combined	l/100km	9.9
CO ₂	g/km	232
Emission rating		EU5

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)

¹⁾ Oil change

²⁾ In conjunction with optional M Driver's Package