

Specifications.

BMW M5.

M5.



BMW M5		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	4966 / 1903 / 1473
Wheelbase	mm	2982
Track, front/rear	mm	1626 / 1594
Ground clearance	mm	132
Turning circle	m	12.6
Tank capacity	approx. ltr	68
Engine oil ¹⁾	ltr	10.0
Weight, unladen, to DIN/EU	kg	1865 / 1940
Max. load to DIN	kg	575
Max. permissible weight	kg	2440
Max. axle load, front/rear	kg	1215 / 1260
Max. trailer load, braked (12%/unbraked)	kg	2000 / 750
Max. roof load/towbar download	kg	100 / 90
Luggage comp. capacity	ltr	530
Air resistance	C _d x A	0.758
Engine		
Config./No. of cyls./valves		V / 8 / 4
Engine technology		M TwinPower Turbo technology with cross-bank exhaust manifold, M TwinScroll TwinTurbo, indirect charge air cooling, High Precision Injection, maximum injection pressure 350 bar, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cm ³	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel		RON 98 (min RON 91)
Output	kW/hp	441 / 600
at	rpm	5600 – 6700
Torque	Nm	750
at	rpm	1800 – 5600
Electrical System		
Battery/Installation	Ah/-	70 (li-ion) / luggage comp.
Driving Dynamics and Safety		
Suspension, front		Adaptive M suspension with double wishbone axle in lightweight aluminium construction, M specific kinematics and elastokinematics, Variable Damper Control (VDC)
Suspension, rear		Adaptive M suspension with five-link axle in lightweight aluminium construction, M-specific elastokinematics, Variable Damper Control (VDC)
Brakes, front		M compound brakes, vented, with six-piston fixed callipers
Brakes, rear		M compound brakes, vented, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS, ASC and M Dynamic Mode (MDM), can be switched off, CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Start-Off Assistant, Active M Differential, DSC linked with M xDrive allwheel drive
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 seats, crash-active front head restraints, crash sensors, Tyre Pressure Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with M specific Servotronic function and variable sport ratios
Steering ratio, overall	:1	14.3
Tyres, front/rear		275/40 ZR19 105Y XL 285/40 ZR19 107Y XL
Rims, front/rear		9.5J x 19 light-alloy 10.5J x 19 light-alloy

BMW M5

Power transfer

M xDrive intelligent all-wheel drive, central transfer case with fully-variable multiplate clutch, fully-variable torque distribution between front and rear axle, differential with fully-variable Active M Differential, locking effect 0 – 100 per cent

Transmission

Type of gearbox	8-speed M Steptronic transmission with Drivelogic, transmission oil cooling		
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.313
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.478
Final drive		:1	3.154

Performance

Power-to-weight ratio (DIN)	kg/kW	4.2
Output per litre	kWh/l	100.3
Acceleration 0–100 km/h	s	3.4
Acceleration 0–200 km/h	s	11.1
Top speed	km/h	250 / 305 ²⁾

BMW EfficientDynamics

BMW EfficientDynamics standard features Brake Energy Regeneration, EPS (Electric Power Steering), Auto Start Stop function, Optimum Shift Indicator in manual shift mode, BMW EfficientLightweight, on-demand operation of ancillary units, Lithium-Ion battery map-controlled oil pump, differential and transfer case with optimised warm-up behaviour, aerodynamics (underside panelling, front spoiler, rear spoiler)

Fuel consumption EU cycle

Urban	ltr/100 km	15.2 – 14.4
Extra-urban	ltr/100 km	8.7 – 8.1
Combined	ltr/100 km	10.8 – 10.7
CO ₂	g/km	246 – 243
Emission rating		EU6d-TEMP

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

¹⁾ Oil change volume

²⁾ In conjunction with optional M Driver's Package

The values for fuel consumption, CO₂ emission and energy consumption shown were determined in the standardized test cycle according to the European Regulation (EC) 715/2007 in the version applicable at the time of type approval. The figures refer to a vehicle with basic configuration in Germany and the range shown considers optional equipment and the different size of wheels and tires available on the selected model and may vary during the configuration.

The values are already based on the test cycle according to the new WLTP regulation and are translated back into NEDC-equivalent values in order to allow a comparison between vehicles. With respect to these vehicles, for vehicle related taxes or other duties based (at least inter alia) on CO₂-emissions the CO₂ values may differ to the values stated here.

BMW M5. M5 Competition.

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Ground clearance	mm	128
Turning circle	m	12.6
Tank capacity	approx. ltr	68
Engine oil ¹⁾	ltr	10.0
Weight, unladen, to DIN/EU	kg	1865 / 1940
Max. load to DIN	kg	575
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Max. axle load, front/rear	kg	1215 / 1260
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Effective capacity	cm ³	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel		RON 98 (min RON 91)
Output	kW/hp	460 / 625
at	rpm	6000
Torque	Nm	750
at	rpm	1800 – 5800
Electrical System		
Battery/Installation	Ah/-	70 (li-ion) / luggage comp.
Driving Dynamics and Safety		
Suspension, front		Adaptive M suspension with double wishbone axle in lightweight aluminium construction, M specific kinematics and elastokinematics, Variable Damper Control (VDC)
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Final drive		:1	3.154

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Power-to-weight ratio (DIN)	kg/kW	4.1
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Acceleration 0–100 km/h	s	3.3
Acceleration 0–200 km/h	s	10.8
Top speed	km/h	250 / 305 ²⁾

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BMW EfficientDynamics standard features

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