



# The new BMW M5 and BMW M5 Competition. Specifications. BMW M5.

<b>BMW M5</b>		
<b>Body</b>		
No of doors/seats		4 / 5
Length/width/height (unladen)	mm	4983 / 1903 / 1473
Wheelbase	mm	2982
Track, front/rear	mm	1626 / 1594
Ground clearance	mm	133
Turning circle	m	12.6
Fuel tank capacity	approx. l	68
Engine oil <sup>1)</sup>	l	10.0
Weight, unladen, to DIN/EU	kg	1895 / 1970
Max load to DIN	kg	545
Max permissible weight	kg	2440
Max axle load, front/rear	kg	1215 / 1260
Max trailer load, braked (12%/unbraked)	kg	2000 / 750
Max roofload/max towbar download	kg	100 / 90
Luggage comp capacity	l	530
Air resistance	C <sub>d</sub> x A	0.75
<b>Power Unit</b>		
Config/No of cyls/valves		V / 8 / 4
Engine technology		M TwinPower Turbo technology with cross-bank exhaust manifold: M TwinScroll twin turbocharger, indirect charge air cooling, High Precision Injection (maximum injection pressure: 350 bar), VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel		RON 98 (min. RON 91)
Max output	kW/hp	441 / 600
at	rpm	6000
Max torque	Nm	750
at	rpm	1800 – 5600
<b>Electrical System</b>		
Battery/installation	Ah/-	70 (Li-ion) / luggage compartment
<b>Driving Dynamics and Safety</b>		
Suspension, front		Adaptive M suspension with double wishbone axle in lightweight aluminium construction, M-specific kinematics and elastokinematics, Variable Damper Control
Suspension, rear		Adaptive M suspension with five-link axle in lightweight aluminium construction, M-specific elastokinematics, Variable Damper Control
Brakes, front		M Compound brakes with six-piston fixed callipers; vented brake discs
Brakes, rear		M Compound brakes with single-piston floating callipers; vented brake discs
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, all-wheel-drive system M xDrive linked with DSC
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt stopper, belt tensioner and belt force limiter at the front, crash-active front head restraints, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS) with M-specific Servotronic function and variable sport ratio
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 multi-plate clutch, fully variable torque distribution between front and rear axle, rear differential with fully variable Active M Differential, locking effect 0 – 100 per cent

**Transmission**

Type of transmission	Eight-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/hp	4.3
Output per litre	kW/l	100.3
Acceleration 0–100 km/h	s	3.4
Acceleration 0–200 km/h	s	11.1
Top speed <sup>2)</sup>	km/h	250 / 305

**BMW EfficientDynamics**

BMW EfficientDynamics standard features Brake Energy Regeneration, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator in manual shift mode, BMW EfficientLightweight, on-demand operation of ancillary units, Li-ion battery, map-regulated oil pump, rear differential and transfer case with optimised efficiency, optimised aerodynamic attributes (underbody panelling, front spoiler, rear spoiler)

**Fuel Consumption ECE**

Urban	l/100 km	15.6 – 15.4
Extra-urban	l/100 km	7.7
Combined	l/100 km	10.6 – 10.5
CO <sub>2</sub>	g/km	242 – 239
Emission rating		EU6d-TEMP

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

<sup>1)</sup> Oil change

<sup>2)</sup> Limited / with optional M Driver's Package

The fuel consumption and CO<sub>2</sub> emission figures are determined according to the European Regulation (EC) 2007/715 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

The values are based on the new WLTP test cycle and are translated back into NEDC-equivalent values in order to ensure comparability between the vehicles. With respect to these vehicles, for vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions, the CO<sub>2</sub> values may differ from the values stated here (depending on national legislation).

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Schramhausen and at <https://www.dat.de/co2/>.



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BMW M5 Competition		
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Wheelbase	mm	2982
Track, front/rear	mm	1625 / 1594
Ground clearance	mm	128
Turning circle	m	12.6
Fuel tank capacity	approx. l	68
Engine oil <sup>1)</sup>	l	10.0
Weight, unladen, to DIN/EU	kg	1895 / 1970
Max load to DIN	kg	545
Max permissible weight	kg	2440
Max axle load, front/rear	kg	1215 / 1260
Max trailer load, braked (12%/unbraked)	kg	2000 / 750
Max roofload/max towbar download	kg	100 / 90
Luggage comp capacity	l	530
Air resistance	C <sub>d</sub> x A	0.77
<b>Power Unit</b>		
Config/No of cyls/valves		V / 8 / 4
Engine technology		M TwinPower Turbo technology with cross-bank exhaust manifold: M TwinScroll twin turbocharger, indirect charge air cooling, High Precision Injection (maximum injection pressure: 350 bar), VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cc	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.0
Fuel		RON 98 (min. RON 91)
Max output	kW/hp	460 / 625
at	rpm	6000
Max torque	Nm	750
at	rpm	1800 – 5860
<b>Electrical System</b>		
Battery/installation	Ah/-	70 (Li-ion) / luggage compartment
<b>Driving Dynamics and Safety</b>		
Suspension, front		Adaptive M suspension with double wishbone axle in lightweight aluminium construction, M-specific kinematics and elastokinematics, Variable Damper Control
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**BMW M5 Competition**

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	VIII	:1	0.640
	R	:1	3.478
Final drive		:1	3.154

**Performance**

Power-to-weight ratio (DIN)	kg/hp	4.1
Output per litre	kW/l	104.7
Acceleration 0–100 km/h	s	3.3
Acceleration 0–200 km/h	s	10.8
Top speed <sup>2)</sup>	km/h	250 / 305

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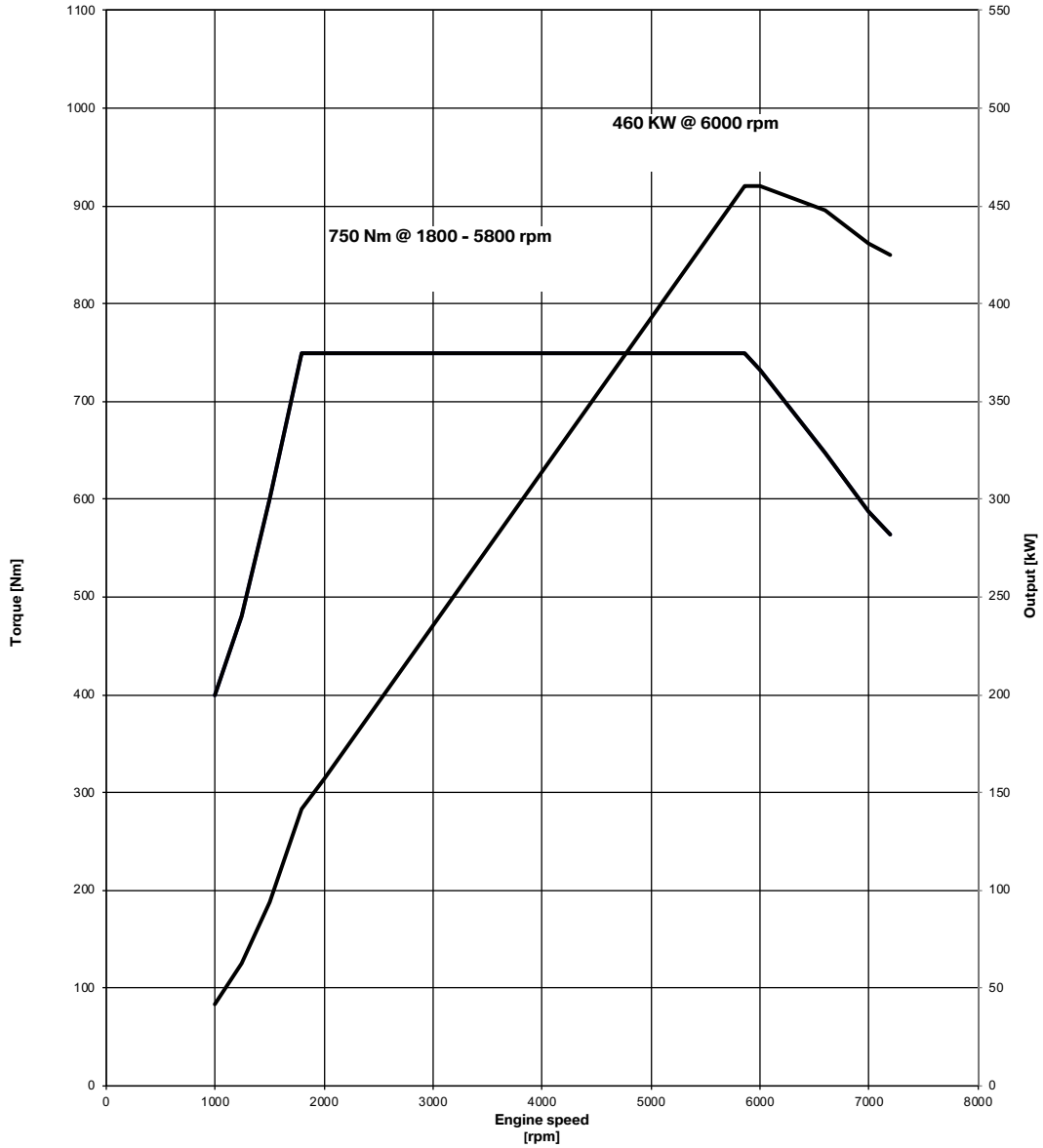
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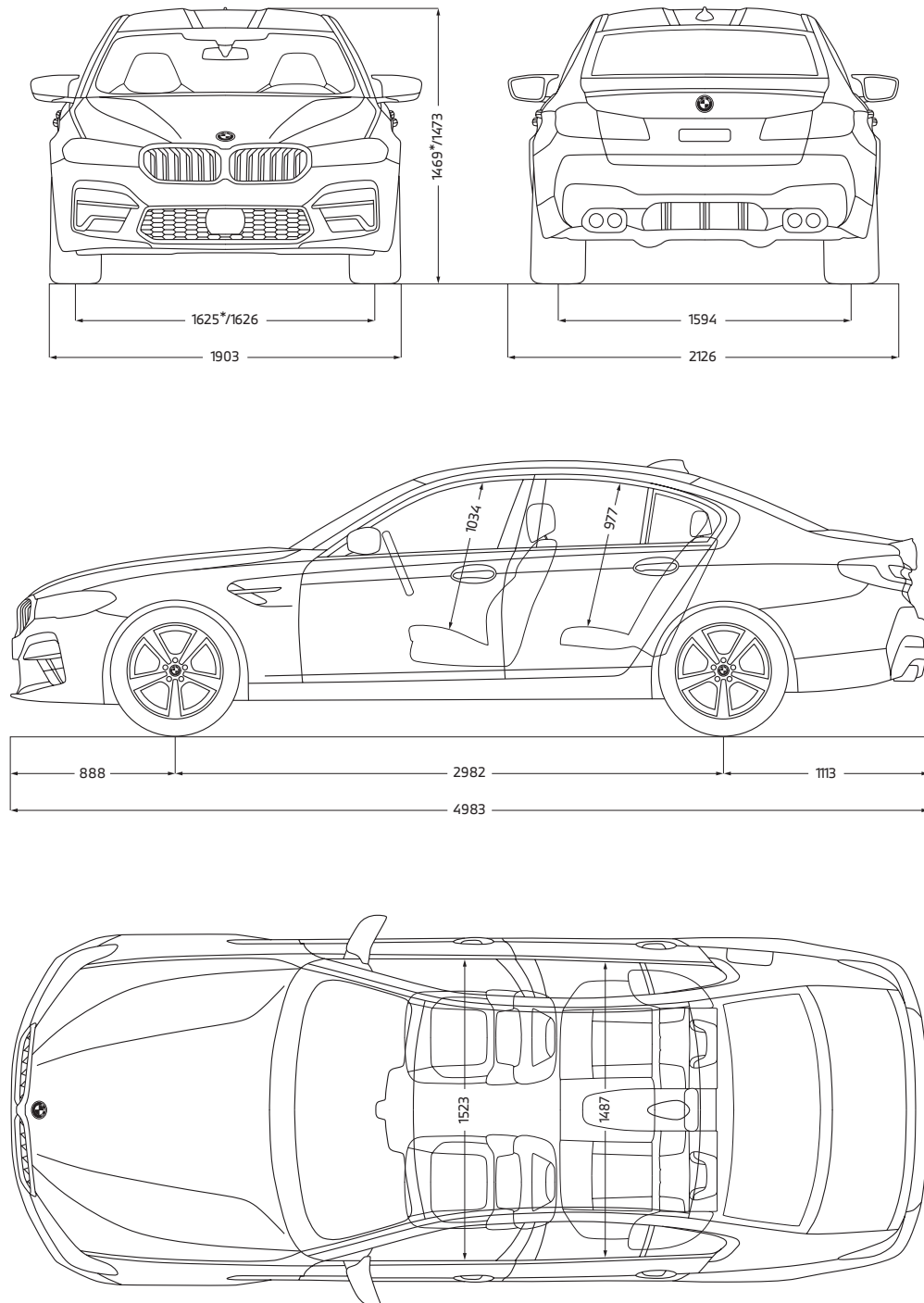
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# Output and torque diagrams. The new BMW M5 and BMW M5 Competition.



# Exterior and interior dimensions. The new BMW M5 and BMW M5 Competition.



\* BMW M5 Competition