

The new BMW M5 CS. Specifications.



BMW M5 CS		
Body		
No of doors / seats		4 / 4
Length / width / height (unladen)	mm	5001 / 1903 / 1468
Wheelbase	mm	2982
Track, front / rear	mm	1625 / 1594
Ground clearance	mm	119
Turning circle	m	12.6
Fuel tank capacity	approx. l	68
Engine oil ¹⁾	l	10.0
Weight, unladen, to DIN / EU	kg	1825 / 1900
Max load to DIN	kg	465
Max permissible weight	kg	2290
Max axle load, front / rear	kg	1165 / 1170
Max roofload / max towbar download	kg	100 / 90
Luggage comp capacity	l	530
Air resistance	C _d x A	0.80
Power Unit		
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	467 / 635
at	rpm	6000
Max torque	Nm	750
at	rpm	1800 – 5950
Electrical System		
Battery/installation	Ah/–	70 (Li-ion) / luggage compartment
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
Suspension, rear		Adaptive M suspension with five-link axle in lightweight aluminium construction, M-specific elastokinematics, Variable Damper Control
Brakes, front		M Carbon ceramic brakes with six-piston fixed callipers; vented brake discs
Brakes, rear		M Carbon ceramic 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		275/35 ZR20 102Y XL 285/35 ZR20 104Y XL
Rims, front / rear		9.5J x 20 light-alloy 10.5J x 20 light-alloy

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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	3.9
Output per litre	kW/l	106.3
Acceleration 0–100 km/h	s	3.0
Acceleration 0–200 km/h	s	10.4
Top speed	km/h	305 ²⁾

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 (NEDC corr.)

Urban	l/100 km	16.9 – 16.6
Extra-urban	l/100 km	8.1 – 7.7
Combined	l/100 km	11.3 – 11.1
CO ₂	g/km	258 – 253

Fuel Consumption ECE (WLTP)

Combined	l/100 km	11.3 – 10.9
CO ₂	g/km	257 – 248
Emission rating		EU6d

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

- ¹⁾ Oil change
²⁾ Limited

The fuel consumption, CO₂ emissions, electric power consumption and electric range figures are determined according to the European Regulation (EC) 715/2007 in the version applicable. They refer to vehicles in the German market. Where a range is shown, NEDC figures consider the different sizes of the selected wheels/tyres, while WLTP figures take into account the impact of any optional extras.

All values were calculated based on the new WLTP test cycle. Any NEDC values that are shown have been translated into equivalent NEDC measurements where appropriate. WLTP values are taken as the basis for determining vehicle-related taxes or other duties based (at least inter alia) on CO₂ emissions as well as eligibility for any applicable vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures can also be found at www.bmw.de/wltp.

Further information on official fuel consumption figures and specific CO₂ emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO₂-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO₂ 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-Scharnhausen and at <https://www.dat.de/co2/>.

Output and torque diagrams. The new BMW M5 CS.

