Specifications.

The new BMW M5.

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|  |  |  | BMW M5 |  |
|  |  |  |  |  |
| Body | |  |  |  |
| No of doors/seats |  |  | 4/5 |  |
| Length/width/height (unladen) | mm |  | 4965/1903/1473 |  |
| Wheelbase | mm |  | 2982 |  |
| Track, front/rear | mm |  | 1626/1595 |  |
| Ground clearance | mm |  | 132 |  |
| Turning circle | m |  | 12.6 |  |
| Fuel tank capacity | approx. l |  | 68 |  |
| Cooling system incl. heater | l |  | 16.0 |  |
| Engine oil1) | l |  | 10.0 |  |
| Weight, unladen, to EU (incl. driver/excl. driver) | kg |  | 1930/1855 |  |
| Max load to EU | kg |  | 585 |  |
| 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 | cd x A |  | 0.758 |  |
|  |  |  |  |  |
| Power Unit | | | | |
| 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 | 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 |  | 5600 – 6700 |  |
| Max torque | Nm |  | 750 |  |
| at | rpm |  | 1800 – 5600 |  |
|  |  |  |  |  |
| Electrical System | | | | |
| Battery/installation | Ah/– |  | 70 (li-ion)/ Luggage compartment |  |
| Alternator | A/W |  | 249/3486 |  |
|  |  |  |  |  |
| 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 all-wheel 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 stopper, belt latch tensioner and belt force limiter, crash-active front head restraints, crash sensors, tyre pressure indicator | | | |

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|  |  |  | BMW M5 |  |
|  |  |  |  |  |
| 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 ZR 19 102Y  285/40 ZR 19 104Y |  |
| Rims, front/rear |  |  | 9.5 J x 19 Light Alloy  10.5 J x 19 Light Alloy |  |
|  |  |  |  |  |
| Power transfer | | | | |
| M xDrive intelligent al-wheel drive, central transfer case with fully-variable multi-plate 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 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 |  | 4.172 |  |
| Final drive | :1 |  | 3.150 |  |
|  |  |  |  |  |
| Performance | | | | |
| Power-to-weight ratio EU excl. driver | kg/kW |  | 4.2 |  |
| Output per litre | kW/l |  | 100.3 |  |
| Acceleration 0–100/200 km/h | s |  | 3.4/11.1 |  |
| Top speed | km/h |  | 250/3052) |  |
|  |  |  |  |  |
| BMW EfficientDynamics | | | | |
| BMW EfficientDynamics standard features |  | Brake Energy Regeneration, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator in manual shift mode, intelligent lightweight design, BMW Efficient Lightweight, on-demand operation of ancillary units, li-ion battery; map-regulated oil pump, differential and transfer case with optimised warm-up behaviour, aerodynamics (underside panelling, front spoiler, rear spoiler) | | |
|  |  |  |  |  |
| Fuel Consumption ECE**3**) | | | | |
| With standard tyres: |  |  |  |  |
| Urban | l/100 km |  | 14.5 |  |
| Extra-urban | l/100 km |  | 8.2 |  |
| Combined | l/100 km |  | 10.5 |  |
| CO2 | g/km |  | 241 |  |
| Emission rating |  |  | EU6 |  |

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

1) Oil change with filter

2) Limited / with optional M Driver’s Package

3) Provisional fuel consumption and CO2 emissions depend on the selected tyre format

Further information on official fuel consumption figures, specific CO2 emission values and the electric power consumption of new passenger cars is included in the following guideline: “Leitfaden über Kraftstoffverbrauch, die CO2-Emissionen und den Stromverbrauch neuer Personenkraftwagen” (Guideline for fuel consumption, CO2 emissions and electric power consumption of new passenger cars), which can be obtained from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at http://www.dat.de/en/offers/publications/guideline-for-fuel-consumption.html.

Output and torque diagram.

The new BMW M5. 



Exterior and interior dimensions.

The new BMW M5.

