

Technical specifications. BMW M5 Touring.



BMW
Media
information

08/2024
Page 1

BMW M5 Touring		
Body		
No. of doors / seats		5 / 5
Length/width/height (unladen)	mm	5096 / 1970 / 1516
Wheelbase	mm	3006
Track, front/rear	mm	1684 / 1660
Ground clearance	mm	118
Turning circle	m	12.6
Fuel tank capacity	approx. l	60
Engine oil ¹⁾	l	13.2
Weight, unladen, to DIN/EU	kg	2475 / 2550
Max. load to DIN	kg	575
Max. permissible weight	kg	3050
Max. axle load, front/rear	kg	1475 / 1670
Max. trailer load, braked (12%)/unbraked	kg	2000 / 750
Max. roofload/towbar download	kg	100 / 100
Luggage comp. capacity	l	500 – 1630
Air resistance	C _x x A	0.34 x 2.56
Power Unit		
Drive concept	Full hybrid drive, drive torque from one or both units transmitted to all four wheels via M xDrive	
Max. system output ²⁾	kW/hp	535 / 727
Max. system torque ²⁾	Nm	1000
System power-to-weight ratio (DIN)	kg/kW	4.6
Petrol Engine		
Config./No. of cyls./valves	V / 8 / 4	
Engine technology	M TwinPower Turbo technology with cross-bank exhaust manifold: two M twin-scroll turbochargers, indirect charge air cooling, High Precision Injection (max. 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	10.5
Fuel	Min. RON 95	
Max. output	kW/hp	430 / 585
at	rpm	5600 – 6500
Max. torque	Nm	750
at	rpm	1800 – 5400
Output per litre	kW/l	97.8
Electric Motor		
Motor technology	BMW eDrive technology: permanently excited synchronous electric motor with pre-gearing stage, integrated into eight- speed M Steptronic transmission, generator function for recuperating energy for the high-voltage battery	
Max. output	kW/hp	145 / 197
at	rpm	6000
Max. torque	Nm	280
at	rpm	1000 – 5000
Effective torque resulting from pre-gearing	Nm	450
High-voltage Battery		
Storage technology / installation	Lithium-ion / underbody	
Voltage	V	347.5
Energy capacity (gross / net)	kWh	22.1 / 18.6
Max. charging rate	kW	11.0
Charging time, 0–100% charge	2h 15m at 11.0 kW (16 A / 230 V, three-phase)	

BMW M5 Touring			
Driving Dynamics and Safety			
Suspension, front	Adaptive M suspension with double-wishbone axle in lightweight aluminium construction, M-specific kinematics and elastokinematics		
Suspension, rear	Adaptive M suspension with five-link axle in lightweight aluminium-steel construction, M-specific kinematics and elastokinematics		
Brakes, front	Vented disc brakes, with six-piston fixed callipers		
Brakes, rear	Vented disc brakes, with single-piston floating callipers		
Driving stability systems	Standard: DSC incl. ABS and M Dynamic Mode (MDM), can be switched off, near-actuator wheel slip limitation, CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Performance Control, Dry Braking function, Start-Off Assistant, M xDrive all-wheel-drive system and Active M Differential networked with DSC		
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 tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator		
Steering	Electric Power Steering (EPS) with M-specific Servotronic function, Integral Active Steering		
Steering ratio, overall	:1	14.2	
Tyres, front/rear	285/40 ZR20 111Y XL / 295/35 ZR21 110Y XL		
Rims, front/rear	10.5J x 20 light-alloy / 11J x 21 light-alloy		
Transmission			
Type of transmission	Eight-speed M Steptronic transmission		
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.297
	VI	:1	1.000
	VII	:1	0.833
	VIII	:1	0.640
	R	:1	3.968
Final drive	:1	3.308	
Performance			
Acceleration	0–100 km/h	s	3.6
Acceleration	0–200 km/h	s	11.1
Acceleration in 5th gear	80–120 km/h	s	3.1
Top speed	km/h	250 / 305 ³⁾	
Top speed (electric)	km/h	140	
Electric range (WLTP)	km	61 – 67	
BMW EfficientDynamics			
BMW EfficientDynamics standard features	BMW eDrive technology, Electric Power Steering, hybrid-specific Automatic Start Stop function, Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency-optimised all-wheel drive		
Fuel Consumption ECE			
Fuel consump. weighted, comb. (WLTP)	l/100 km	2.0 – 1.7	
CO ₂ emissions from fuel (WLTP)	g/km	46 – 39	
Elec. power cons. weighted, comb. (WLTP)	kWh/100 km	27.5 – 25.8	
Fuel consump. with discharged battery (WLTP)	l/100 km	10.9 – 10.4	
Emission rating	Euro 6e		
CO ₂ class(es) weighted, combined	B		
CO ₂ class(es) with discharged battery	G		

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

All figures are provisional

¹⁾ Oil change with filter

²⁾ Developed by the combination of the combustion engine (stated nominal figure) and the electric motor (up to stated nominal figure)

³⁾ Limited / with optional M Driver's Package

Official fuel consumption, CO₂ emissions, electric power consumption and electric range figures were determined based on the prescribed measurement procedure in accordance with European Regulation (EC) 2007/715 in the version applicable. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

Further information on the WLTP measurement procedure can also be found at www.bmw.de/wltp.