

# 10. Technical specifications.

## The new BMW M3 Sedan.

## The new BMW M4 Coupe.



		BMW M3 Sedan	BMW M4 Coupe
<b>Body</b>			
No. of doors/seats		4/5	2/4
Length/width/height (EU unladen)	mm	4671/1877/1424	4671/1870/1383
Wheelbase	mm	2812	
Track, front/rear	mm	1579/1603	
Ground clearance		120	121
Turning circle	m	12.2	
Tank capacity	approx. ltr	60	
Cooling system incl. heating	ltr	13.9	
Engine oil <sup>1)</sup>	ltr	6.5	
Weight, unladen, to DIN/EU	kg	1520/1595 (1560/1635)	1497/1572 (1537/1612)
Max. load to DIN	kg	580 (540)	543 (503)
Max. permissible weight	kg	2100	2040
Max. axle load, front/rear	kg	990/1170	970/1130
Max. trailer load, braked (12%/unbraked)	kg	--/--	
Max. roof load/towbar download	kg	75/--	
Luggage comp. capacity	ltr	480	445
Air resistance	C <sub>d</sub> x A	0.34 x 2.29	0.34 x 2.23
<b>Engine</b>			
Config./no. of cyls./valves		R/6/4	
Engine technology		M TwinPower Turbo technology with two mono-scroll turbochargers, High Precision Direct Petrol Injection, fully variable valve timing (VALVETRONIC) and variable camshaft control (Double-VANOS)	
Effective capacity	cm <sup>3</sup>	2,979	
Stroke/Bore	mm	89.6 / 84.0	
Compression ratio	:1	10.2	
Fuel grade		RON95 – RON98	
Output	kW/hp	317/431	
at	rpm	5500–7300	
Torque	Nm	550	
at	rpm	1850–5500	
<b>Electrical system</b>			
Battery/installation	Ah/–	69/luggage comp.	
Alternator	A/W	209/2926 (at rated speed)	
<b>Driving dynamics and safety</b>			
Suspension, front		Aluminium double-joint spring strut axle, M-specific kinematics and rigidity set-up	
Suspension, rear		Aluminium five-link axle, control arms and wheel carriers, rear axle subframe in lightweight steel construction, rigidly bolted to the body, M-specific kinematics and rigidity set-up	
Brakes, front		Four-piston fixed-calliper disc brakes / inner-vented, perforated	
Brakes, rear		Twin-piston fixed-calliper disc brakes / inner-vented, perforated	
Driving stability systems		Standard: DSC incl. ABS and MDM (M Dynamic Mode), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Stability interaction DSC / Active M Differential, Dry Braking function, Start-Off Assistant	
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	
Steering		Variable M Sport rack-and-pinion power steering, electromechanical with variable (rack-and-pinion) ratios	
Steering ratio, overall	:1	15.0	
Tyres, front/rear		255/40 ZR18 95Y / 275/40 ZR18 99Y	
Rims, front/rear		9.0J x 18 light-alloy / 10.0J x 18 light-alloy	

			<b>BMW M3 Sedan</b>	<b>BMW M4 Coupe</b>
<b>Transmission</b>				
Type of gearbox	6-speed manual gearbox (optional: 7-speed Double Clutch Transmission)			
Gear ratios	I	:1	4.110 (4.806)	
	II	:1	2.315 (2.593)	
	III	:1	1.542 (1.701)	
	IV	:1	1.179 (1.277)	
	V	:1	1.000 (1.000)	
	VI	:1	0.846 (0.844)	
	VII	:1	----- (0.671)	
	R	:1	3.727 (4.172)	
Final drive		:1	3.462 (3.462)	
<b>Performance</b>				
Power-to-weight ratio (DIN)	kg/kW		4.79 (4.92)	4.72 (4.84)
Output per litre	kW/ltr		106.4	
Acceleration	0–100 km/h	s	4.3 (4.1)	
	0–1000 m	s	22.2 (21.9)	
In 4th/5th gear	80–120 km/h	s	3.5/4.2 (3.5/4.3)	
Top speed	km/h		250 (250)	
<b>BMW EfficientDynamics</b>				
BMW EfficientDynamics, standard features	Brake Energy Regeneration, Electric Power Steering, Engine Start Stop function, Optimum Gearshift Indicator (6-speed manual gearbox and 7-speed Double Clutch Transmission in manual mode), intelligent lightweight construction, on-demand operation of ancillary units, map-controlled oil pump, final drive with optimised warm-up behaviour			
<b>Fuel consumption EU<sup>2)</sup></b>				
With standard tyres:				
Urban	ltr/100 km		12.0 (11.1)	
Extra-urban	ltr/100 km		6.9 (6.7)	
Combined	ltr/100 km		8.8 (8.3)	
CO <sub>2</sub>	g/km		204 (194)	
Emission rating	EU6			

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)  
Figures in brackets apply to 7-speed Double Clutch Transmission

<sup>1)</sup> Oil change

<sup>2)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format