

10. Technical specifications.

The new BMW M3 Sedan.

The new BMW M4 Coupe.



		BMW M3 Sedan	BMW M4 Coupe
Body			
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 ¹⁾	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 _d x A	0.34 x 2.29	0.34 x 2.23
Engine			
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 ³	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	
Electrical system			
Battery/installation	Ah/–	69/luggage comp.	
Alternator	A/W	209/2926 (at rated speed)	
Driving dynamics and safety			
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	

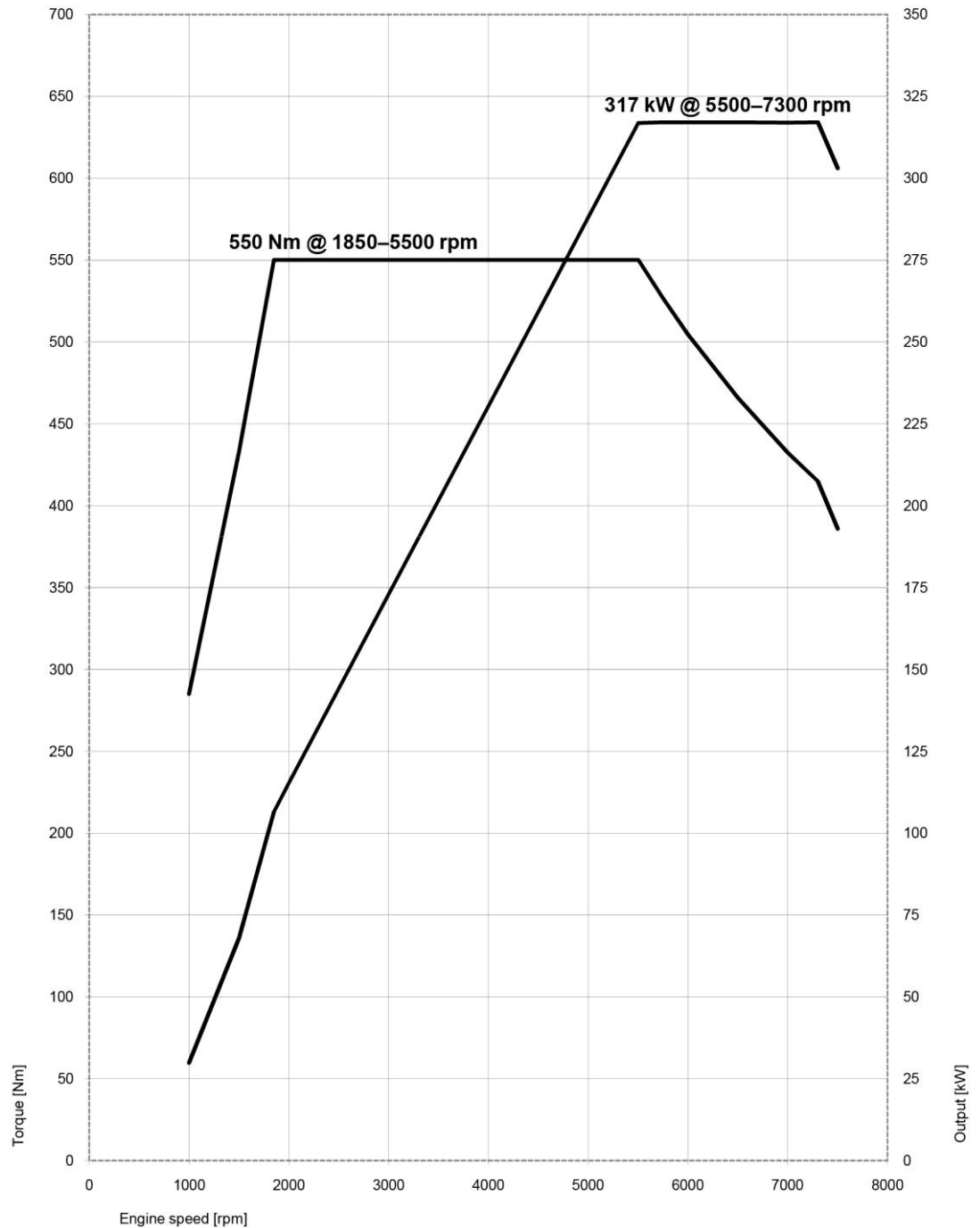
BMW M3 Sedan			BMW M4 Coupe
Transmission			
Type of gearbox		6-speed manual gearbox (optional: 7-speed Double Clutch Transmission)	
Gear ratios	I	:1	4.110 (4.806)
	II	:1	2.315 (2.593)
	III	:1	1.542 (1.701)
	IV	:1	1.179 (1.277)
	V	:1	1.000 (1.000)
	VI	:1	0.846 (0.844)
	VII	:1	----- (0.671)
	R	:1	3.727 (4.172)
Final drive		:1	3.462 (3.462)
Performance			
Power-to-weight ratio (DIN)		kg/kW	4.79 (4.92)
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)
BMW EfficientDynamics			
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	
Fuel consumption EU ²⁾			
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 ₂		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

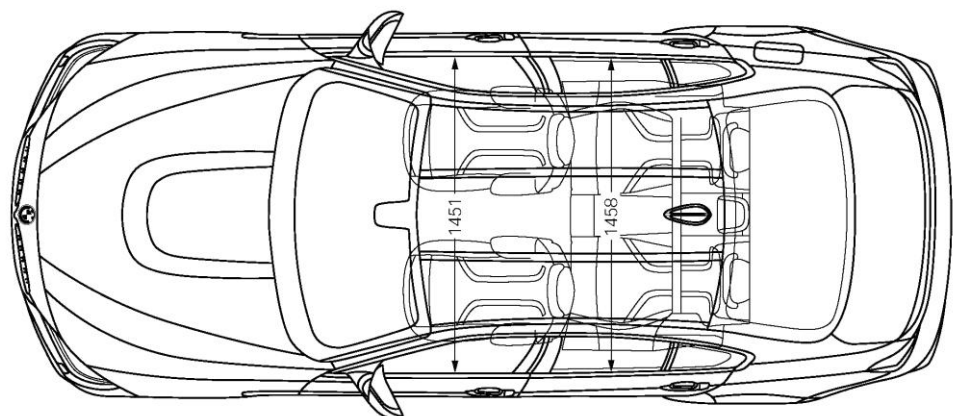
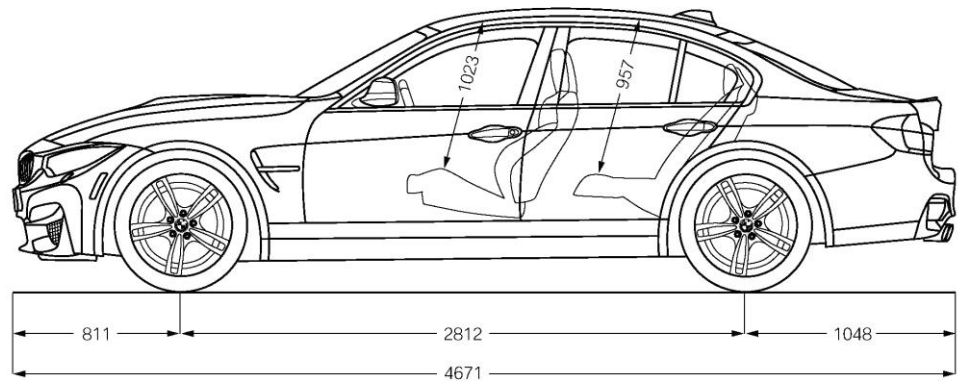
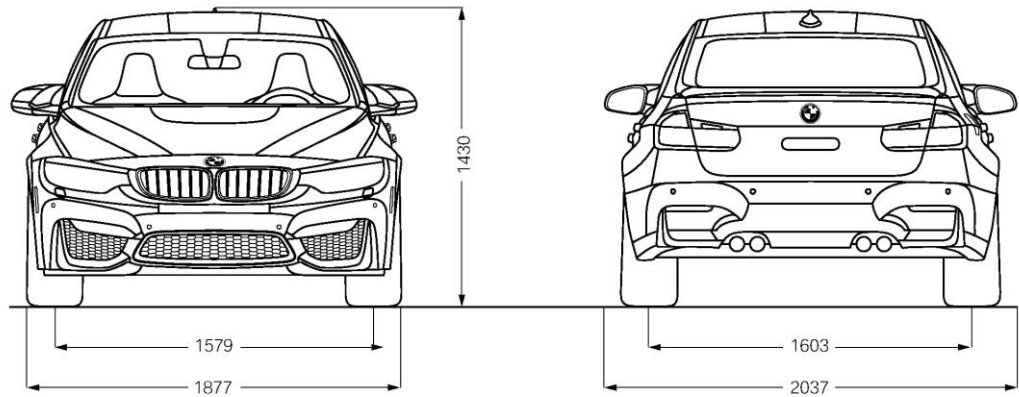
¹⁾ Oil change

²⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format

11. Output and torque diagram. The new BMW M3 Sedan. The new BMW M4 Coupe.



12. Exterior and interior dimensions. The new BMW M3 Sedan.



The new BMW M4 Coupe.

