

# Specifications.

## The all-new BMW 8 Series Coupe. M850i xDrive.



BMW M850i xDrive		
<b>Body</b>		
No of doors/seats		2 / 4
Length/width/height (unladen)	mm	4851 / 1902 / 1346
Wheelbase	mm	2822
Track, front/rear	mm	1627 / 1642
Ground clearance	mm	128
Turning circle	m	11.9
Fuel tank capacity	approx. l	68
Engine oil <sup>1)</sup>	l	10.5
Weight, unladen, to DIN/EU	kg	1890 / 1965
Max load to DIN	kg	505
Max permissible weight	kg	2395
Max axle load front/rear	kg	1235 / 1250
Max trailer load (12%) braked/unbraked	kg	- / -
Max roofload/max towbar download	kg	75 / -
Luggage comp capacity	l	420
Air resistance	C <sub>d</sub> x A	0.33 x 2.22
<b>Power Unit</b>		
Config/No of cyls/valves		V / 8 / 4
Engine technology		BMW TwinPower Turbo technology: two TwinScroll turbochargers, High Precision Direct Injection, 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 91
Max output	kW/hp	390 / 530
at	rpm	5500 – 6000
Max torque	Nm/lb-ft	750/553
at	rpm	1800 – 4600
<b>Electrical System</b>		
Battery/installation	Ah/-	105 / Luggage compartment
<b>Driving Dynamics and Safety</b>		
Suspension, front		Double-wishbone axle in aluminium construction with separate lower track arm and specific elastokinematics
Suspension, rear		Five-link axle in aluminium/steel lightweight construction with dual elastic bearing and specific elastokinematics
Brakes, front		Vented disc brakes, with four-piston fixed callipers
Brakes, rear		Vented disc brakes, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, Start-Off Assistant, DSC linked with xDrive all-wheel drive, Dynamic Damper Control, electronically controlled rear-axle differential lock; optional: active roll stabilisation
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 in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS), Integral Active Steering
Steering ratio, overall	:1	16.3
Tyres, front/rear		245/35 R20 95Y XL/ 275/30 R20 97Y XL
Rims front/rear		8J x 20 light-alloy/ 9J x 20 light-alloy

<b>BMW M850i xDrive</b>			
<b>Transmission</b>			
Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.500
	II	:1	3.520
	III	:1	2.200
	IV	:1	1.720
	V	:1	1.317
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.993
Final drive		:1	2.813
<b>Performance</b>			
Power-to-weight ratio (DIN)	kg/kW		4.8
Output per litre	kW/l		88.7
Acceleration 0–100 km/h	s		3.7
Top speed	km/h		250
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function, BMW EfficientLightweight, optimised aerodynamics, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency- and weight-optimised all-wheel drive, rear differential and transfer case with optimised efficiency		
<b>Fuel Consumption ECE <sup>2)</sup></b>			
Urban	l/100 km		<sup>3)</sup>
Extra-urban	l/100 km		<sup>3)</sup>
Combined	l/100 km		10.5 – 10.0
CO <sub>2</sub>	g/km		240 – 228
Emission rating	Euro 6d-TEMP		

Specifications apply to ACEA markets/data relevant to homologation apply in part only in Germany (weight)  
All technical specifications are provisional

<sup>1)</sup> Oil change

<sup>2)</sup> Fuel consumption and CO<sub>2</sub> emissions may vary depending on the tyre format specified

<sup>3)</sup> Data not yet available

The fuel consumption, CO<sub>2</sub> emissions and electric power consumption figures were determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

The values for the vehicles marked \* are already based on the new WLTP test cycle and have been translated back into NEDC-equivalent values in order to ensure comparability between the vehicles. With respect to these vehicles, for vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions, the CO<sub>2</sub> values may differ from the values stated here (depending on national legislation).

The CO<sub>2</sub> efficiency specifications are determined according to Directive 1999/94/EC and the latest version of the Pkw-EnVKV, and based (for classification) on the fuel consumption and CO<sub>2</sub> values as per the NEDC cycle.

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guideline for fuel consumption, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships and at <https://www.dat.de/en/offers/publications/guideline-for-fuel-consumption.html>.

# The new BMW 8 Series Coupe. 840d xDrive.

<b>BMW 840d xDrive</b>		
<b>Body</b>		
No of doors/seats		2 / 4
Length/width/height (unladen)	mm	4843 / 1902 / 1341
Wheelbase	mm	2822
Track, front/rear	mm	1627 / 1642
Ground clearance	mm	121
Turning circle	m	119
Fuel tank capacity	approx. l	68
Engine oil <sup>1)</sup>	l	6.5
Weight, unladen, to DIN/EU	kg	1830 / 1905
Max load to DIN	kg	540
Max permissible weight	kg	2370
Max axle load, front/rear	kg	1175 / 1290
Max trailer load (1 %)	kg	
braked/unbraked		- / -
Max roofload/max towbar download	kg	75 / -
Luggage comp capacity	l	420
Air resistance	C <sub>d</sub> x A	0.29 x 2.22
<b>Power unit</b>		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: multi-stage turbocharging, high- and low-pressure turbochargers with variable intake geometry, common-rail direct injection with piezo injectors (max. injection pressure: 2500 bar)
Effective capacity	cc	2993
Stroke/bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		Diesel
Max output	kW/hp	235 / 320
at	rpm	4400
Max torque	Nm/lb-ft	680/501
at	rpm	1750 – 2250
<b>Electrical system</b>		
Battery/installation	Ah/-	105 / Luggage compartment
<b>Driving dynamics and safety</b>		
Suspension, front		Double-wishbone axle in aluminium construction with separate lower track arm and specific elastokinematics
Suspension, rear		Five-link axle in aluminium/steel lightweight construction with dual elastic bearing and specific elastokinematics
Brakes, front		Vented disc brakes, with four-piston fixed callipers
Brakes, rear		Vented disc brakes, with single-piston floating callipers
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, Start-Off Assistant, DSC linked with xDrive all-wheel drive, Dynamic Damper Control; optional: electronically controlled rear-axle differential lock
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 in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS), Integral Active Steering
Steering ratio, overall	:1	16.3
Tyres, front/rear		245/45 R18 100Y XL/ 275/40 R18 103Y XL
Rims, front/rear		8J x 18 light-alloy/ 9J x 18 light-alloy

**BMW 840d xDrive**

**Transmission**

Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.500
	II	:1	3.520
	III	:1	2.200
	IV	:1	1.720
	V	:1	1.317
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.993
Final drive		:1	2.647

**Performance**

Power-to-weight ratio (DIN)	kg/kW	7.8
Output per litre	kW/l	78.5
Acceleration 0–100 km/h	s	4.9
Top speed	km/h	250

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator ECO PRO mode with coasting function, BMW EfficientLightweight, optimised aerodynamics, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency- and weight-optimised all-wheel drive, rear differential and transfer case with optimised efficiency, BMW Blue Performance technology
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**Fuel consumption ECE <sup>2)</sup>**

Urban	l/100 km	7.6 – 7.2
Extra-urban	l/100 km	5.4 – 5.1
Combined	l/100 km	6.2 – 5.9
CO <sub>2</sub>	g/km	164 – 154
Emission rating		Euro 6d-TEMP

Specifications apply to ACEA markets/data relevant to homologation apply in part only in Germany (weight)  
All technical specifications are provisional.

<sup>1)</sup> Oil change

<sup>2)</sup> Fuel consumption and CO<sub>2</sub> emissions may vary depending on the tyre format specified

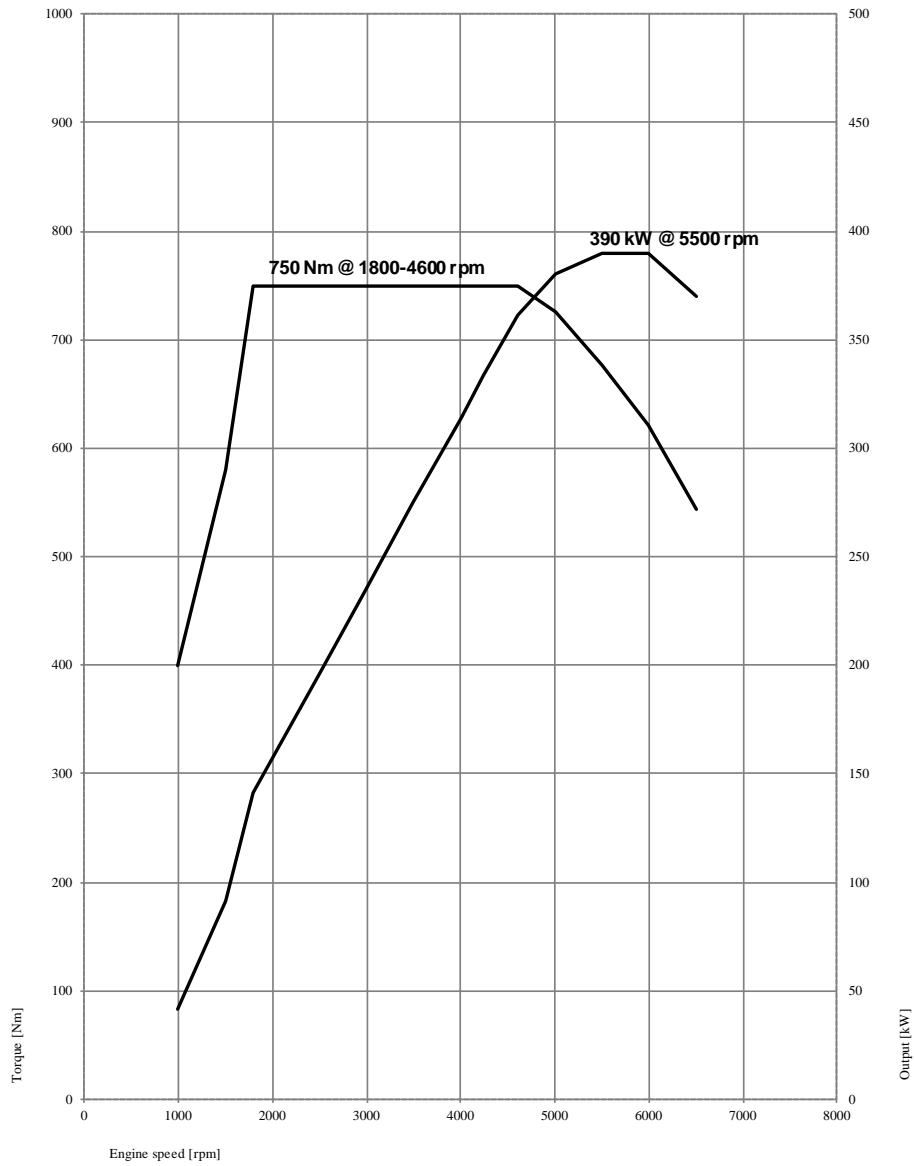
The fuel consumption, CO<sub>2</sub> emissions and electric power consumption figures were determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the selected wheels/tyres and the selected items of optional equipment, and may vary during configuration.

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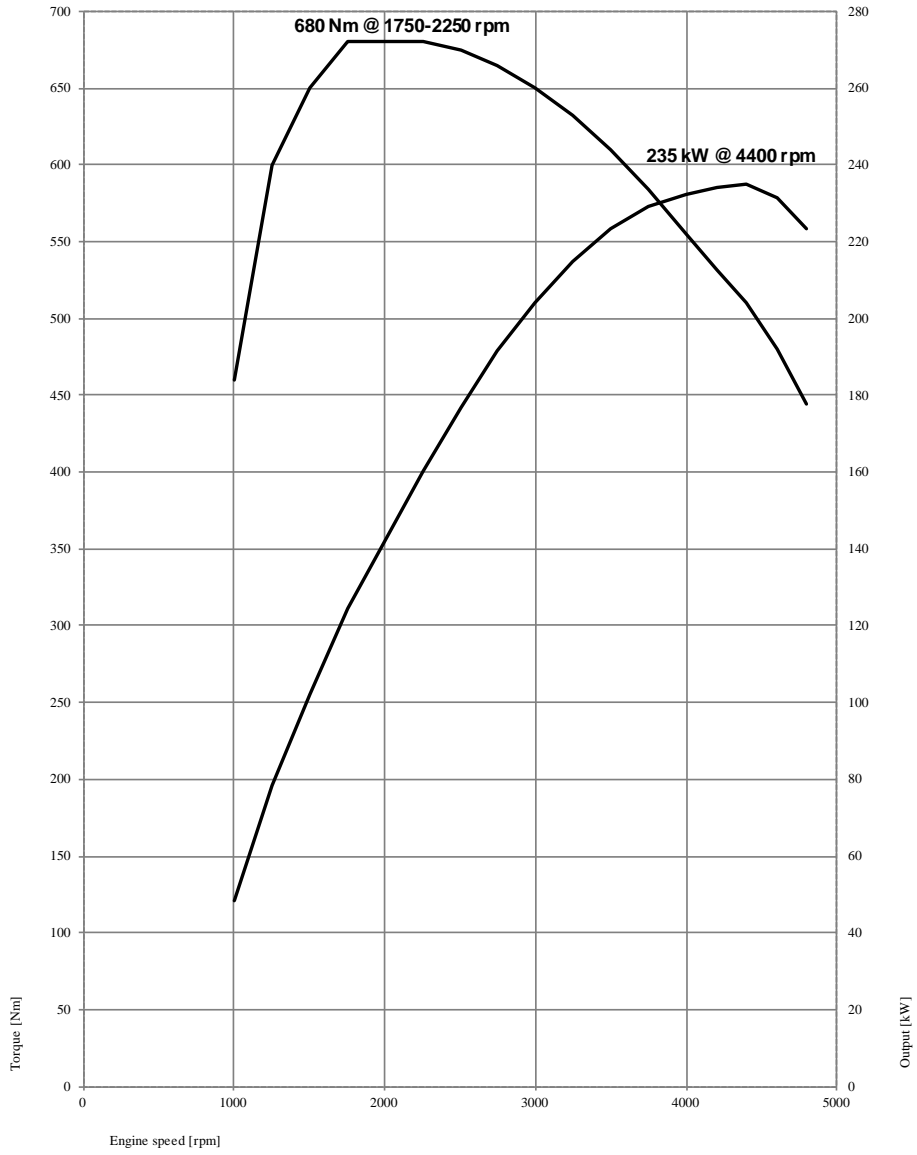
The CO<sub>2</sub> efficiency specifications are determined according to Directive 1999/94/EC and the latest version of the Pkw-EnVKV, and based (for classification) on the fuel consumption and CO<sub>2</sub> values as per the NEDC cycle.

Further information on official fuel consumption figures and specific CO<sub>2</sub> emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO<sub>2</sub>-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guideline for fuel consumption, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships and at <https://www.dat.de/en/offers/publications/guideline-for-fuel-consumption.html>.

# Output and torque diagrams. The new BMW 8 Series Coupe. M850i xDrive.



# The new BMW 8 Series Coupe. 840d xDrive.



# Exterior and interior dimensions. The new BMW 8 Series Coupe.

