

# Specifications.

## BMW 8 Series Coupe.

### 840i.



<b>BMW 840i Coupe</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	11.6
Tank capacity	approx. ltr	68
Engine oil <sup>1)</sup>	ltr	6.5
Weight, unladen, to DIN/EU	kg	1730 / 1805
Max. load to DIN	kg	495
Max. permissible weight	kg	2225
Max. axle load, front/rear	kg	1100 / 1215
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	75 / -
Luggage comp. capacity	ltr	420
Air resistance	C <sub>d</sub> x A	0.29 x 2.22
<b>Engine</b>		
Config./No. of cyls./valves		in-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: twin scroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cm <sup>3</sup>	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min RON 91
Output	kW/hp	245 / 333
at	rpm	5500 – 6250
Torque	Nm	500
at	rpm	1700 – 4000
<b>Electrical System</b>		
Battery/Installation	Ah/-	90 / luggage comp.
<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		Four-piston fixed-calliper disc brakes / vented
Brakes, rear		Single-piston floating-calliper disc brakes / vented
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, Adaptive M Suspension, M Sport differential
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 at the front seats, crash sensors, Tyre Pressure Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: Integral Active Steering
Steering ratio, overall	:1	16.9
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

<b>BMW 840i Coupe</b>			
<b>Transmission</b>			
Type of gearbox	8-speed Steptronic		
Gear ratios	I	:1	5.250
	II	:1	3.360
	III	:1	2.172
	IV	:1	1.720
	V	:1	1.316
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.712
Final drive		:1	2.929
<b>Performance</b>			
Power-to-weight ratio (DIN)	kg/kW		7.1
Output per litre	kW/l		81.7
Acceleration 0–100 km/h	s		5.2
Top speed	km/h		250
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, EPS (Electric Power Steering), Auto Start Stop function, Optimum Shift Indicator, ECO PRO and COMFORT mode with coasting function, Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-controlled oil pump, differential with optimized-warm-up behavior		
<b>Fuel consumption EU cycle</b>			
Urban	ltr/100 km		9.5 – 9.3
Extra-urban	ltr/100 km		6.0 – 5.8
Combined	ltr/100 km		7.3 – 7.1
CO <sub>2</sub>	g/km		168 – 163
Emission rating			Euro 6d

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

<sup>1)</sup> Oil change volume

The values for fuel consumption, CO<sub>2</sub> emission and energy consumption shown were determined in the standardized test cycle according to the European Regulation (EC) 715/2007 in the version applicable at the time of type approval. The figures refer to a vehicle with basic configuration in Germany and the range shown considers optional equipment and the different size of wheels and tires available on the selected model and may vary during the configuration.

The values are already based on the test cycle according to the new WLTP regulation and are translated back into NEDC-equivalent values in order to allow a comparison between 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 to the values stated here.

# BMW 8 Series Coupe. 840i xDrive.

<b>BMW 840i xDrive Coupe</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	11.9
Tank capacity	approx. ltr	68
Engine oil <sup>1)</sup>	ltr	6.5
Weight, unladen, to DIN/EU	kg	1795 / 1870
Max. load to DIN	kg	485
Max. permissible weight	kg	2280
Max. axle load, front/rear	kg	1155 / 1215
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	75 / -
Luggage comp. capacity	ltr	420
Air resistance	C <sub>d</sub> x A	0.30 x 2.22
<b>Engine</b>		
Config./No. of cyls./valves		in-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: twin scroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cm <sup>3</sup>	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min RON 91
Output	kW/hp	245 / 333
at	rpm	5500 – 6250
Torque	Nm	500
at	rpm	1700 – 4000
<b>Electrical System</b>		
Battery/Installation	Ah/-	90 / luggage comp.
<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		Four-piston fixed-calliper disc brakes / vented
Brakes, rear		Single-piston floating-calliper disc brakes / vented
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, Adaptive M Suspension; optional: M Sport differential
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 at the front seats, crash sensors, Tyre Pressure Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with Servotronic function, Integral Active Steering
Steering ratio, overall	:1	16.4
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 840i xDrive Coupe**

**Transmission**

Type of gearbox	8-speed Steptronic		
Gear ratios	I	:1	5.250
	II	:1	3.360
	III	:1	2.172
	IV	:1	1.720
	V	:1	1.316
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.712
Final drive		:1	2.929

**Performance**

Power-to-weight ratio (DIN)	kg/kW	7.3
Output per litre	kW/l	81.7
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, EPS (Electric Power Steering), Auto Start Stop function, Optimum Shift Indicator, ECO PRO and COMFORT mode with coasting function, Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, automatic rear spoiler, on-demand operation of ancillary units, map-controlled oil pump, efficiency-optimised all-wheel drive, differential with optimized-warm-up behaviour
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**Fuel consumption EU cycle**

Urban	ltr/100 km	9.9 – 9.5
Extra-urban	ltr/100 km	6.6 – 6.5
Combined	ltr/100 km	7.8 – 7.6
CO <sub>2</sub>	g/km	180 – 174
Emission rating		Euro 6d

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

<sup>1)</sup> Oil change volume

The values for fuel consumption, CO<sub>2</sub> emission and energy consumption shown were determined in the standardized test cycle according to the European Regulation (EC) 715/2007 in the version applicable at the time of type approval. The figures refer to a vehicle with basic configuration in Germany and the range shown considers optional equipment and the different size of wheels and tires available on the selected model and may vary during the configuration.

The values are already based on the test cycle according to the new WLTP regulation and are translated back into NEDC-equivalent values in order to allow a comparison between 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 to the values stated here.

# BMW 8 Series Coupe. M850i xDrive.

<b>BMW M850i xDrive Coupe</b>		
<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
Tank capacity	approx. ltr	68
Engine oil <sup>1)</sup>	ltr	10.5
Weight, unladen, to DIN/EU	kg	1930 / 2005
Max. load to DIN	kg	465
Max. permissible weight	kg	2395
Max. axle load, front/rear	kg	1235 / 1250
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	75 / -
Luggage comp. capacity	ltr	420
Air resistance	C <sub>d</sub> x A	0.32 x 2.22
<b>Engine</b>		
Config./No. of cyls./valves		V / 8 / 4
Engine technology		BMW TwinPower Turbo technology: two twin scroll turbochargers, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing
Effective capacity	cm <sup>3</sup>	4395
Stroke/bore	mm	88,3 / 89,0
Compression ratio	:1	10.5
Fuel		min RON 91
Output	kW/hp	390 / 530
at	rpm	5500 – 6000
Torque	Nm	750
at	rpm	1800 – 4600
<b>Electrical System</b>		
Battery/Installation	Ah/-	90 / luggage comp.
<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		Four-piston fixed-calliper disc brakes / vented
Brakes, rear		Single-piston floating-calliper disc brakes / vented
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, Adaptive M Suspension, M Sport differential; 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 at the front seats, crash sensors, Tyre Pressure Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with Servotronic function, Integral Active Steering
Steering ratio, overall	:1	16.4
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

**BMW M850i xDrive Coupe**

**Transmission**

Type of gearbox	8-speed Steptronic		
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

**Performance**

Power-to-weight ratio (DIN)	kg/kW	4.9
Output per litre	kW/l	88.7
Acceleration 0–100 km/h	s	3.8
Top speed	km/h	250

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, EPS (Electric Power Steering), Auto Start Stop function, Optimum Shift Indicator, ECO PRO and COMFORT mode with coasting function, Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, automatic rear spoiler, on-demand operation of ancillary units, map-controlled oil pump, efficiency-optimised all-wheel drive, differential with optimized-warm-up behaviour
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**Fuel consumption EU cycle**

Urban	ltr/100 km	14.0 – 13.8
Extra-urban	ltr/100 km	7.7 – 7.6
Combined	ltr/100 km	10.0 – 9.9
CO <sub>2</sub>	g/km	230 – 228
Emission rating		Euro 6d

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

<sup>1)</sup> Oil change volume

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The values are already based on the test cycle according to the new WLTP regulation and are translated back into NEDC-equivalent values in order to allow a comparison between 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 to the values stated here.

# BMW 8 Series Coupe. 840d xDrive.

<b>BMW 840d xDrive Coupe</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	11.9
Tank capacity	approx. ltr	66
Engine oil <sup>1)</sup>	ltr	7.0
Weight, unladen, to DIN/EU	kg	1915 / 1990
Max. load to DIN	kg	495
Max. permissible weight	kg	2410
Max. axle load, front/rear	kg	1235 / 1290
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	75 / -
Luggage comp. capacity	ltr	420
Air resistance	C <sub>d</sub> x A	0.29 x 2.22
<b>Engine</b>		
Config./No. of cyls./valves		in-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: multi-stage charging, high and low pressure turbocharger with variable inlet geometry, common rail direct fuel injection with piezo injectors (max. injection pressure: 2700 bar)
Effective capacity	cm <sup>3</sup>	2993
Stroke/bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		Diesel
Output	kW/hp	250 / 340
at	rpm	4400
Torque	Nm	700
at	rpm	1750 – 2250
48V mild hybrid technology output	kW/hp	8 / 11
<b>Electrical System</b>		
12V battery/installation	Ah/-	90 / luggage comp.
48V battery/installation	Ah/-	11 / engine comp.
<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		Four-piston fixed-calliper disc brakes / vented
Brakes, rear		Single-piston floating-calliper disc brakes / vented
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, Adaptive M Suspension; optional: M Sport differential
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 at the front seats, crash sensors, Tyre Pressure Indicator
Steering		Electromechanical rack-and-pinion power steering (EPS) with Servotronic function, Integral Active Steering
Steering ratio, overall	:1	16.4
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 Coupe**

**Transmission**

Type of gearbox	8-speed Steptronic		
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	7.7
Output per litre	kW/l	83.5
Acceleration 0–100 km/h	s	4.8
Top speed	km/h	250

**BMW EfficientDynamics**

BMW EfficientDynamics standard features	Mild hybrid technology with 48V starter-generator, Brake Energy Regeneration with recuperation display, Auto Start Stop function, ECO PRO and COMFORT mode with coasting function, Proactive Driving Assistant, Optimum Shift Indicator, Electric Power Steering, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency-optimised all-wheel drive, differential with optimised warm-up behaviour, BMW Blue Performance technology with SCR catalytic converter
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**Fuel consumption EU cycle**

Urban	ltr/100 km	7.3 – 7.1
Extra-urban	ltr/100 km	5.0 – 4.7
Combined	ltr/100 km	5.8 – 5.6
CO <sub>2</sub>	g/km	154 – 146
Emission rating		Euro 6d

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

<sup>1)</sup> Oil change volume

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