

Specifications.

BMW 8 Series Gran Coupe.

840i.



BMW 840i Gran Coupe		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	5074 / 1932 / 1401
Wheelbase	mm	3023
Track, front/rear	mm	1627 / 1671
Ground clearance	mm	121
Turning circle	m	12.3
Tank capacity	approx. ltr	68
Engine oil ¹⁾	ltr	6.5
Weight, unladen, to DIN/EU	kg	1815 / 1890
Max. load to DIN	kg	620
Max. permissible weight	kg	2435
Max. axle load, front/rear	kg	1170 / 1360
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	75 / -
Luggage comp. capacity	ltr	440
Air resistance	C _d x A	0.29 x 2.31
Engine		
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 ³	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
Electrical System		
Battery/Installation	Ah/-	90 / luggage comp.
Driving Dynamics and Safety		
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 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; 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

BMW 840i Gran 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	7.4	
Output per litre	kW/l	81.7	
Acceleration 0–100 km/h	s	5.4	
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, on-demand operation of ancillary units, map-controlled oil pump, differential with optimized-warm-up behavior	
Fuel consumption EU cycle			
Urban	ltr/100 km	9.7 – 9.4	
Extra-urban	ltr/100 km	6.1 – 5.9	
Combined	ltr/100 km	7.4 – 7.2	
CO ₂	g/km	171 – 166	
Emission rating		Euro 6d	

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

¹⁾ Oil change volume

The values for fuel consumption, CO₂ 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.

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BMW 8 Series Gran Coupe. 840i xDrive.

BMW 840i xDrive Gran Coupe		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	5074 / 1932 / 1401
Wheelbase	mm	3023
Track, front/rear	mm	1627 / 1671
Ground clearance	mm	121
Turning circle	m	12.6
Tank capacity	approx. ltr	68
Engine oil ¹⁾	ltr	6.5
Weight, unladen, to DIN/EU	kg	1875 / 1950
Max. load to DIN	kg	605
Max. permissible weight	kg	2480
Max. axle load, front/rear	kg	1220 / 1355
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	75 / -
Luggage comp. capacity	ltr	440
Air resistance	C _d x A	0.29 x 2.31
Engine		
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 ³	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
Electrical System		
Battery/Installation	Ah/-	90 / luggage comp.
Driving Dynamics and Safety		
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 Suspension; optional: M Sport differential, 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		245/45 R18 100Y XL/ 275/40 R18 103Y XL
Rims, front/rear		8J x 18 light-alloy / 9J x 18 light-alloy

BMW 840i xDrive Gran 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	7.7
Output per litre		kW/l	81.7
Acceleration 0–100 km/h		s	5.1
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	
Fuel consumption EU cycle			
Urban	ltr/100 km	10.0 – 9.6	
Extra-urban	ltr/100 km	6.6 – 6.5	
Combined	ltr/100 km	7.8 – 7.6	
CO ₂	g/km	180 – 175	
Emission rating		Euro 6d	

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¹⁾ Oil change volume

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BMW 8 Series Gran Coupe. M850i xDrive.

BMW M850i xDrive Gran Coupe		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	5082 / 1932 / 1407
Wheelbase	mm	3023
Track, front/rear	mm	1627 / 1671
Ground clearance	mm	128
Turning circle	m	12.6
Tank capacity	approx. ltr	68
Engine oil ¹⁾	ltr	10.5
Weight, unladen, to DIN/EU	kg	2010 / 2085
Max. load to DIN	kg	590
Max. permissible weight	kg	2600
Max. axle load, front/rear	kg	1300 / 1390
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	75 / -
Luggage comp. capacity	ltr	440
Air resistance	C _d x A	0.32 x 2.31
Engine		
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 ³	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
Electrical System		
Battery/Installation	Ah/–	90 / luggage comp.
Driving Dynamics and Safety		
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 Gran 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		5.2
Output per litre	kW/l		88.7
Acceleration 0–100 km/h	s		3.9
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	
Fuel consumption EU cycle			
Urban	ltr/100 km		14.3 – 14.1
Extra-urban	ltr/100 km		7.8 – 7.7
Combined	ltr/100 km		10.2 – 10.1
CO ₂	g/km		234 – 232
Emission rating			Euro 6d

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BMW 8 Series Gran Coupe. 840d xDrive.

BMW 840d xDrive Gran Coupe		
Body		
No. of doors/seats		4 / 5
Length/width/height (unladen)	mm	5074 / 1932 / 1401
Wheelbase	mm	3023
Track, front/rear	mm	1627 / 1671
Ground clearance	mm	121
Turning circle	m	12.6
Tank capacity	approx. ltr	66
Engine oil ¹⁾	ltr	7.0
Weight, unladen, to DIN/EU	kg	1995 / 2070
Max. load to DIN	kg	605
Max. permissible weight	kg	2600
Max. axle load, front/rear	kg	1275 / 1425
Max. trailer load, braked (12%/unbraked)	kg	- / -
Max. roof load/towbar download	kg	75 / -
Luggage comp. capacity	ltr	440
Air resistance	C _d x A	0.29 x 2.31
Engine		
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 ³	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
Electrical System		
12V battery/installation	Ah/-	90 / luggage comp.
48V battery/installation	Ah/-	11 / engine comp.
Driving Dynamics and Safety		
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 Suspension; optional: M Sport differential, 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		245/45 R18 100Y XL/ 275/40 R18 103Y XL
Rims, front/rear		8J x 18 light-alloy / 9J x 18 light-alloy

BMW 840d xDrive Gran 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		8.0
Output per litre	kW/l		83.5
Acceleration 0–100 km/h	s		5.0
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	
Fuel consumption EU cycle			
Urban	ltr/100 km		7.4 – 7.1
Extra-urban	ltr/100 km		5.0 – 4.7
Combined	ltr/100 km		5.9 – 5.6
CO ₂	g/km		155 – 148
Emission rating			Euro 6d

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¹⁾ Oil change volume

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