

# 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%)<br>braked/unbraked | kg                 | - / -  |
| Max roofload/max towbar<br>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),<br>Integral Active Steering   |
| Steering ratio, overall                   | :1                 | 16.3   |
| Tyres, front/rear                         |                    | 245/35 R20 95Y XL/<br>275/30 R20 97Y XL  |
| Rims front/rear                           |                    | 8J x 20 light-alloy/<br>9J x 20 light-alloy  |

**BMW M850i 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 | 2.813 |

**Performance**

|                             |       |      |
|-----------------------------|-------|------|
| 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  |

**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 |
|---|--|

**Fuel Consumption ECE <sup>2)</sup>**

|                 |          |               |
|-----------------|----------|---------------|
| 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),<br>Integral Active Steering  |
| Steering ratio, overall            | :1                 | 16.3  |
| Tyres, front/rear                  |                    | 245/45 R18 100Y XL/<br>275/40 R18 103Y XL   |
| Rims, front/rear                   |                    | 8J x 18 light-alloy/<br>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 |
|---|--|

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

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

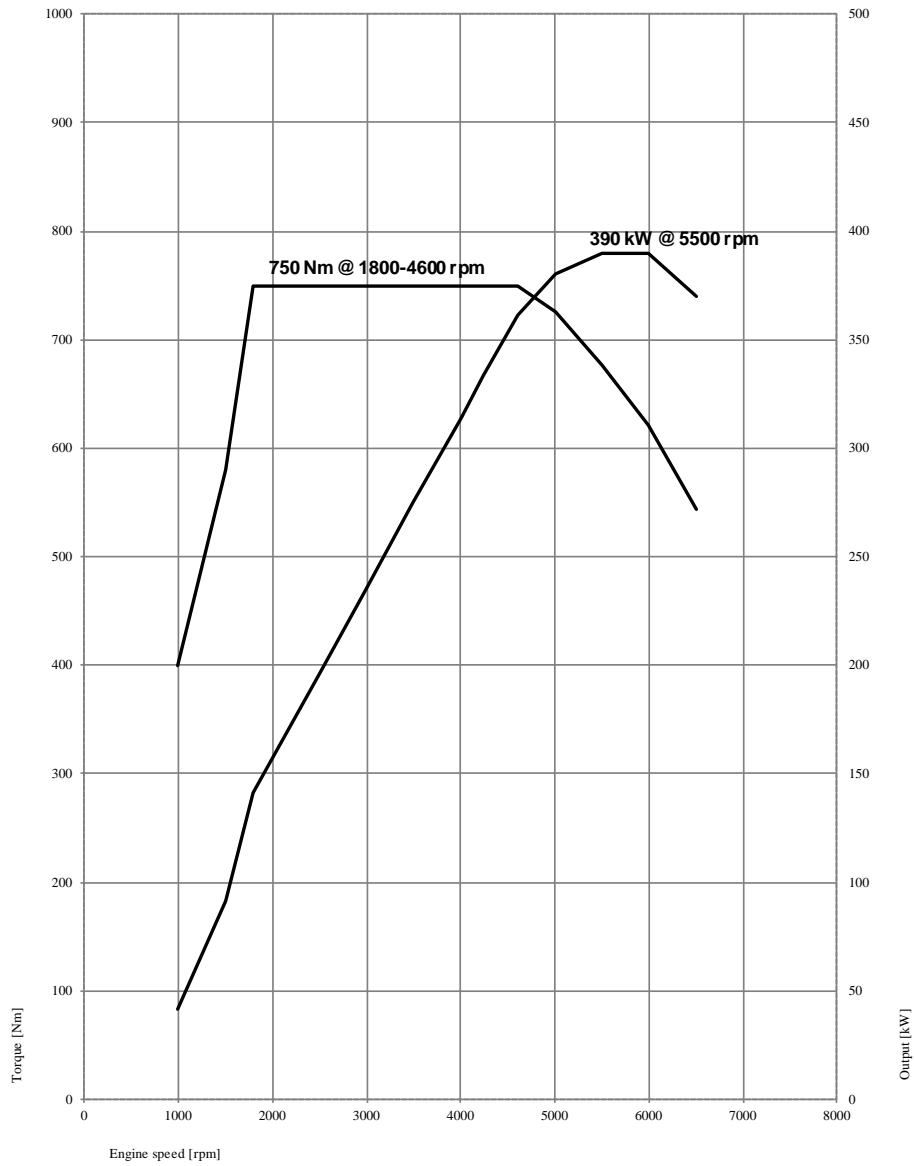
The fuel consumption, CO<sub>2</sub> emissions and electric power consumption figures were determined according to the European Regulation (EC) 715/2007 in the version applicable. The figures refer to a vehicle with basic configuration in Germany. The range shown considers the different sizes of the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

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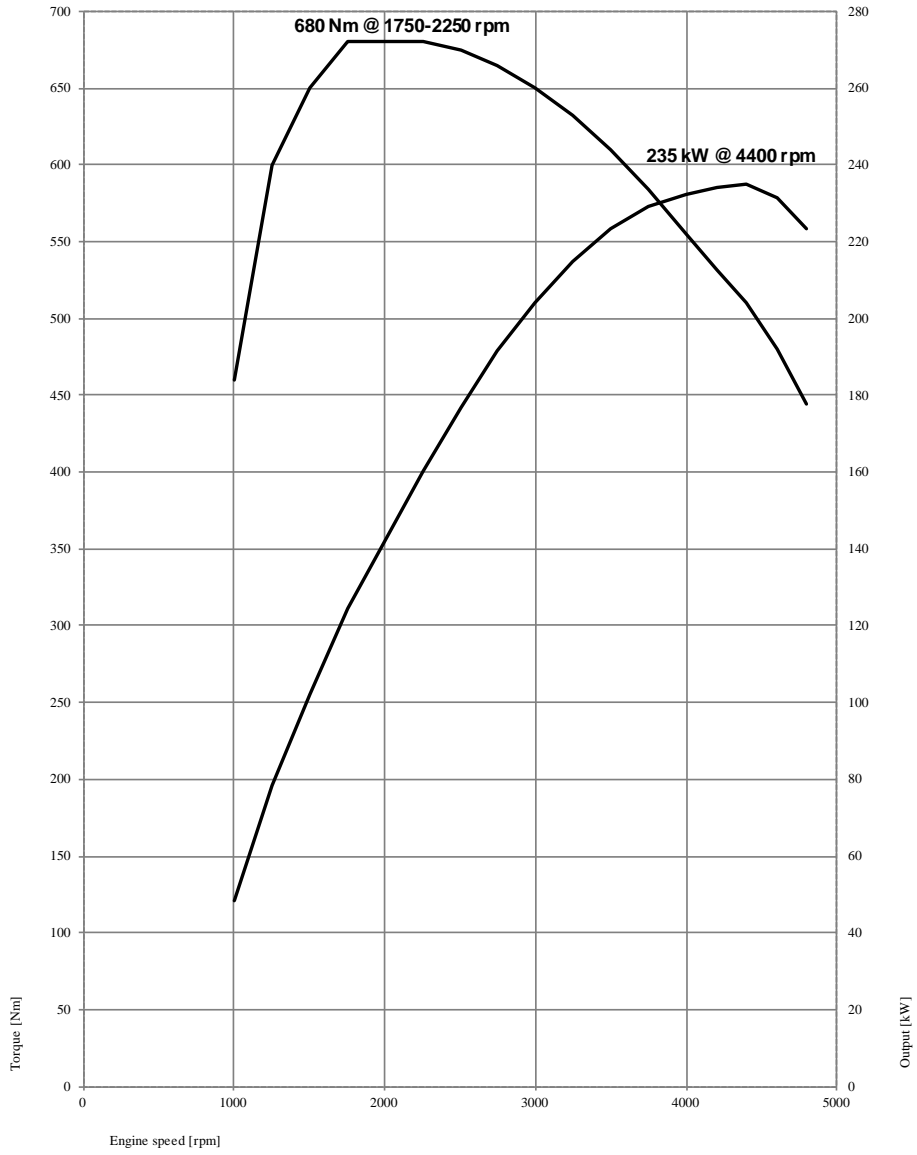
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# Output and torque diagrams. The new BMW 8 Series Coupe. M850i xDrive.



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



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

