

# Specifications BMW 1 Series Coupé. 118d, 120d, 123d



2/2011

Valid from  
3/2011

|                                            |          | BMW 118d                                                                                                                                                                                                                                                                                                              | BMW 120d                     | BMW 123d                                                                         |
|--------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|----------------------------------------------------------------------------------|
| <b>Body</b>                                |          |                                                                                                                                                                                                                                                                                                                       |                              |                                                                                  |
| No of doors/seats                          |          | 2 / 4                                                                                                                                                                                                                                                                                                                 | 2 / 4                        | 2 / 4                                                                            |
| Length/width/height (unladen)              | mm       | 4360 / 1748 / 1423                                                                                                                                                                                                                                                                                                    | 4360 / 1748 / 1423           | 4360 / 1748 / 1423                                                               |
| Wheelbase                                  | mm       | 2660                                                                                                                                                                                                                                                                                                                  | 2660                         | 2660                                                                             |
| Track, front/rear                          | mm       | 1484 / 1517                                                                                                                                                                                                                                                                                                           | 1480 / 1513                  | 1474 / 1507                                                                      |
| Ground clearance                           | mm       | 147                                                                                                                                                                                                                                                                                                                   | 147                          | 147                                                                              |
| Turning circle                             | m        | 10.7                                                                                                                                                                                                                                                                                                                  | 10.7                         | 10.7                                                                             |
| Tank capacity                              | app ltr  | 51                                                                                                                                                                                                                                                                                                                    | 51                           | 51                                                                               |
| Cooling system incl heater                 | ltr      | 7.2 (7.5)                                                                                                                                                                                                                                                                                                             | 7.2 (7.5)                    | 7.2 (7.5)                                                                        |
| Engine oil <sup>1)</sup>                   | ltr      | 5.2                                                                                                                                                                                                                                                                                                                   | 5.2                          | 5.2                                                                              |
| Weight, unladen, to DINEU                  | kg       | 1320 / 1395<br>(1345 / 1420)                                                                                                                                                                                                                                                                                          | 1375 / 1450<br>(1375 / 1450) | 1420 / 1495<br>(1420 / 1495)                                                     |
| Max load to DIN                            | kg       | 440                                                                                                                                                                                                                                                                                                                   | 440                          | 440                                                                              |
| Max permissible                            | kg       | 1760 (1785)                                                                                                                                                                                                                                                                                                           | 1815 (1820)                  | 1860 (1860)                                                                      |
| Max axle load, front/rear                  | kg       | 850 / 990                                                                                                                                                                                                                                                                                                             | 895 / 985                    | 925 / 1000                                                                       |
| Max trailer load (12%),<br>braked/unbraked | kg       | 1200 / 690                                                                                                                                                                                                                                                                                                            | 1200 / 720                   | 1200 / 740                                                                       |
| Max roofload/max towbar downl              | kg       | 75/75                                                                                                                                                                                                                                                                                                                 | 75/75                        | 75/75                                                                            |
| Luggage comp capacity                      | ltr      | 370                                                                                                                                                                                                                                                                                                                   | 370                          | 370                                                                              |
| Air drag                                   | Cd x A   | 0.30 x 2.11                                                                                                                                                                                                                                                                                                           | 0.31 x 2.11                  | 0.31 x 2.11                                                                      |
| <b>Power Unit</b>                          |          |                                                                                                                                                                                                                                                                                                                       |                              |                                                                                  |
| Config/No of cyls/valves                   |          | Straight-four / 4                                                                                                                                                                                                                                                                                                     | Straight-four / 4            | Straight-four / 4                                                                |
| Engine technology                          |          | Common-rail direct injection,<br>turbocharger with variable intake geometry                                                                                                                                                                                                                                           |                              | Common-rail direct<br>injection,<br>BMW TwinPower Turbo<br>(Variable Twin Turbo) |
| Capacity, effective                        | cc       | 1995                                                                                                                                                                                                                                                                                                                  | 1995                         | 1995                                                                             |
| Stroke / bore                              | mm       | 90 / 84                                                                                                                                                                                                                                                                                                               | 90 / 84                      | 90 / 84                                                                          |
| Compression ratio                          | :1       | 16.5                                                                                                                                                                                                                                                                                                                  | 16.5                         | 16.5                                                                             |
| Fuel                                       |          | Diesel                                                                                                                                                                                                                                                                                                                | Diesel                       | Diesel                                                                           |
| Max output                                 | kW/hp    | 105 / 143                                                                                                                                                                                                                                                                                                             | 130 / 177                    | 150 / 204                                                                        |
| at                                         | rpm      | 4000                                                                                                                                                                                                                                                                                                                  | 4000                         | 4400                                                                             |
| Max torque                                 | Nm/lb-ft | 300/221                                                                                                                                                                                                                                                                                                               | 350/258                      | 400/295                                                                          |
| at                                         | rpm      | 1750-2500                                                                                                                                                                                                                                                                                                             | 1750-3000                    | 2000-2250                                                                        |
| <b>Electrical System</b>                   |          |                                                                                                                                                                                                                                                                                                                       |                              |                                                                                  |
| Battery/location                           | Ah/-     | 90 (80) / luggage comp                                                                                                                                                                                                                                                                                                | 90 (80) / luggage comp       | 90 (80) / luggage comp                                                           |
| Alternator                                 | A/W      | 180 / 2520                                                                                                                                                                                                                                                                                                            | 180 / 2520                   | 180 / 2520                                                                       |
| <b>Driving Dynamics and Safety</b>         |          |                                                                                                                                                                                                                                                                                                                       |                              |                                                                                  |
| Suspension, front                          |          | Double-joint tiebar spring strut axle, aluminium                                                                                                                                                                                                                                                                      |                              |                                                                                  |
| Suspension, rear                           |          | Five-arm axle, lightweight steel                                                                                                                                                                                                                                                                                      |                              |                                                                                  |
| Brakes, front                              |          | Single-piston swing-calliper disc brakes                                                                                                                                                                                                                                                                              |                              |                                                                                  |
| Diameter                                   | mm       | 292 x 22 / vented                                                                                                                                                                                                                                                                                                     | 300 x 24 / vented            | 330 x 24 / vented                                                                |
| Brakes, rear                               |          | Single-piston swing-calliper disc brakes                                                                                                                                                                                                                                                                              |                              |                                                                                  |
| Diameter                                   | mm       | 300 x 20 / vented                                                                                                                                                                                                                                                                                                     | 300 x 20 / vented            | 300 x 20 / vented                                                                |
| Driving stability systems                  |          | Standard: DSC incl ABS and DTC (Dynamic Traction Control), CBC<br>Cornering Brake Control, DBC Dynamic Brake Control, BMW 123d with<br>electronic locking function on the rear axle differential                                                                                                                      |                              |                                                                                  |
| Safety equipment                           |          | Standard: airbags for driver and front passenger (two-stage), side airbags<br>for driver and front passenger, head airbags front and rear, three-point<br>inertia-reel seat belts on all seats, with belt retainer, belt latch tensioner<br>and belt force limiter at the front, crash sensors, Tyre Defect Indicator |                              |                                                                                  |
| Steering                                   |          | Rack-and-pinion steering; 3.0 turns; EPS Electronic Power Steering                                                                                                                                                                                                                                                    |                              |                                                                                  |
| Steering transmission, overall             | :1       | 16.0                                                                                                                                                                                                                                                                                                                  | 16.0                         | 16.0                                                                             |
| Tyres, front/rear                          |          | 195/55 R16 87H                                                                                                                                                                                                                                                                                                        | 205/55 R16 87V               | 205/50 R17 89W RSC                                                               |
| Rims, front/rear                           |          | 6.5J x 16 light-alloy                                                                                                                                                                                                                                                                                                 | 7J x 16 light-alloy          | 7J x 17 light-alloy                                                              |

## Specifications BMW 1 Series Coupé.

|                                         |                |      | BMW 118d                                                                                                                                                                                                                                              | BMW 120d      | BMW 123d      |
|-----------------------------------------|----------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|
| BMW ConnectedDrive                      |                |      |                                                                                                                                                                                                                                                       |               |               |
| Comfort                                 |                |      | Optional: BMW Assist including features such as enquiry service, remote-control function and V-Info+, BMW TeleServices, integration of mobile devices                                                                                                 |               |               |
| Infotainment                            |                |      | Optional: access to the internet, BMW Online including features such as Parkinfo, Nationalinfo, Google directory service, News, realtime weather, BMW Routes, Office functions, Bluetooth audio streaming, online music title update, Apps            |               |               |
| Safety                                  |                |      | Optional: Adaptive Headlights with Bending Lights, High-Beam Assistant, Park Distance Control, cruise control, Automatic/Enhanced Emergency Call                                                                                                      |               |               |
| Transmission                            |                |      |                                                                                                                                                                                                                                                       |               |               |
| Type of transmission                    |                |      | Six-speed manual (optional: six-speed automatic transmission)                                                                                                                                                                                         |               |               |
| Gear ratios                             | I              | :1   | 4.002 (4.171)                                                                                                                                                                                                                                         | 5.140 (4.171) | 5.080 (4.171) |
|                                         | II             | :1   | 2.108 (2.340)                                                                                                                                                                                                                                         | 2.830 (2.340) | 2.804 (2.340) |
|                                         | III            | :1   | 1.380 (1.521)                                                                                                                                                                                                                                         | 1.804 (1.521) | 1.783 (1.521) |
|                                         | IV             | :1   | 1.000 (1.143)                                                                                                                                                                                                                                         | 1.257 (1.143) | 1.260 (1.143) |
|                                         | V              | :1   | 0.780 (0.867)                                                                                                                                                                                                                                         | 1.000 (0.867) | 1.000 (0.867) |
|                                         | VI             | :1   | 0.645 (0.691)                                                                                                                                                                                                                                         | 0.831 (0.691) | 0.835 (0.691) |
|                                         |                | :1   | 3.187 (3.403)                                                                                                                                                                                                                                         | 4.638 (3.403) | 4.607 (3.403) |
| Final drive                             |                | :1   | 3.071 (3.231)                                                                                                                                                                                                                                         | 2.563 (3.154) | 2.786 (3.154) |
| Performance                             |                |      |                                                                                                                                                                                                                                                       |               |               |
| Power-to-weight ratio                   | kg/kW          |      | 12.6 (12.8)                                                                                                                                                                                                                                           | 10.6 (10.6)   | 9.5 (9.5)     |
| Output per litre                        | kW/hp          |      | 56.6/77.0                                                                                                                                                                                                                                             | 65.2/88.7     | 75.2/102.3    |
| Acceleration                            | 0–100 km/h     | sec  | 9.0 (9.1)                                                                                                                                                                                                                                             | 7.6 (7.8)     | 7.0 (7.1)     |
|                                         | Standing-start | sec  | 29.9 (30.0)                                                                                                                                                                                                                                           | 28.2 (28.1)   | 27.3 (27.1)   |
| In 4th/5th gear                         | 80–120         | sec  | 7.7 / 10.1 (–)                                                                                                                                                                                                                                        | 6.4 / 8.0 (–) | 5.5 / 6.6 (–) |
| Top speed                               |                | km/h | 210 (210)                                                                                                                                                                                                                                             | 228 (226)     | 238 (236)     |
| BMW EfficientDynamics                   |                |      |                                                                                                                                                                                                                                                       |               |               |
| BMW EfficientDynamics standard features |                |      | Brake Energy Regeneration, Electric Power Steering, Auto Start Stop and Gearshift Point Indicator (manual gearbox models), Air Curtains, tyres with reduced roll resistance (BMW 123d), intelligent lightweight technology, a/c compressor detachable |               |               |
| Fuel Consump in EU                      |                |      |                                                                                                                                                                                                                                                       |               |               |
| Urban                                   | ltr/100 km     |      | 5.3 (6.7)                                                                                                                                                                                                                                             | 5.9 (6.7)     | 6.4 (6.9)     |
| Extra-urban                             | ltr/100 km     |      | 4.0 (4.5)                                                                                                                                                                                                                                             | 4.0 (4.5)     | 4.3 (4.7)     |
| Combined                                | ltr/100 km     |      | 4.5 (5.3)                                                                                                                                                                                                                                             | 4.7 (5.3)     | 5.1 (5.5)     |
| CO <sub>2</sub>                         | g/km           |      | 118 (140)                                                                                                                                                                                                                                             | 124 (140)     | 134 (145)     |
| Emission rating                         |                |      | EU5                                                                                                                                                                                                                                                   | EU5           | EU5           |

Specifications applicable to ACEA markets/homologation data applicable in part only to Germany (weight).  
Figures in brackets apply to automatic transmission models.

<sup>1)</sup> Oil change