

# Specifications BMW 5 Series Sedan. 528i xDrive, 535i xDrive, 550i xDrive



8/2011

Valid from  
9/2011

|   |         | BMW 528i xDrive   | BMW 535i xDrive  | BMW 550i xDrive  |
|---|---------|---|--|--|
| <b>Body</b>                                 |         |   |  |  |
| No of doors/seats                           |         | 4 / 5   | 4 / 5  | 4 / 5  |
| Length/width/height <sup>1)</sup> (unladen) | mm      | 4899 / 1860 / 1464  | 4899 / 1860 / 1464   | 4899 / 1860 / 1464   |
| Wheelbase                                   | mm      | 2968  | 2968   | 2968   |
| Track, front/rear                           | mm      | 1600 / 1627   | 1600 / 1627  | 1600 / 1627  |
| Ground clearance                            | mm      | 141   | 141  | 141  |
| Turning circle                              | m       | 11.95   | 11.95  | 11.95  |
| Tank capacity                               | app ltr | 70  | 70   | 70   |
| Cooling system incl heater                  | ltr     | 10.1  | 10.5   | 11.4   |
| Engine oil <sup>2)</sup>                    | ltr     | 5.75  | 6.5  | 8.5  |
| Weight, unladen, to DIN/EU                  | kg      | 1705 / 1780   | 1765 / 1840  | 1900 / 1975  |
| Max load to DIN                             | kg      | 600   | 600  | 600  |
| Max permissible                             | kg      | 2305  | 2380   | 2500   |
| Max axle load, front/rear                   | kg      | 1100 / 1290   | 1170 / 1310  | 1250 / 1320  |
| Max trailer load (12%),<br>braked/unbraked  | kg      | 2000 / 750  | 2000 / 750   | 2000 / 750   |
| Max roofload/max towbar dwl                 | kg      | 100 / 90  | 100 / 90   | 100 / 90   |
| Luggage comp capacity                       | ltr     | 520   | 520  | 520  |
| Air resistance                              | Cd x A  | 0.29 x 2.35   | 0.29 x 2.35  | 0.31 x 2.35  |
| <b>Engine</b>                               |         |   |  |  |
| Config/No of cyls/valves                    |         | Straight-four / 4   | Straight-six / 4   | V90 / 8 / 4  |
| Engine technology                           |         | BMW TwinPower Turbo with Twin-Scroll turbocharger, direct injection and fully variable valve control (VALVETRONIC)  | BMW TwinPower Turbo with Twin-Scroll turbocharger, direct injection and fully variable valve control (VALVETRONIC) | BMW TwinPower Turbo with two turbochargers and a direct injection (High Precision Injection) |
| Capacity, effective                         | cc      | 1997  | 2979   | 4395   |
| Stroke / bore                               | mm      | 90.1 / 84.0   | 89.6 / 84.0  | 88.3 / 89.0  |
| Compression ratio                           | :1      | 10.3  | 10.2   | 10.0   |
| Fuel grade                                  |         | at least RON 91   | at least RON 91  | at least RON 91  |
| Max output                                  | kW/hp   | 180 / 245   | 225 / 306  | 300 / 407  |
| at  | rpm     | 5000–6500   | 5800   | 5500–6400  |
| Max torque                                  | Nm      | 350   | 400  | 600  |
| at  | rpm     | 1250–4800   | 1200–5000  | 1750–4500  |
| <b>Electrical System</b>                    |         |   |  |  |
| Battery/installation                        | Ah/–    | 90 / luggage comp   | 90 / luggage comp  | 90 / luggage comp  |
| Alternator                                  | AW      | 170 / 2380  | 210 / 2940   | 220 / 3080   |
| <b>Driving Dynamics and Safety</b>          |         |   |  |  |
| Suspension, front                           |         | Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive   |  |  |
| Suspension, rear                            |         | Integral-V multi-arm axle, aluminium, anti-squat and anti-dive, double acoustic separation  |  |  |
| Brakes, front                               |         | Single-piston aluminium swing-calliper disc brakes in frame structure   |  |  |
| Diameter                                    | mm      | 330 x 24 / inner-vented   | 348 x 36 / inner-vented  | 374 x 36 / inner-vented  |
| Brakes, rear                                |         | Single-piston swing-calliper disc brakes  |  |  |
| Diameter                                    | mm      | 330 x 20 / inner-vented   | 345 x 24 / inner-vented  | 345 x 24 / inner-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; optional: Dynamic Damper Control, Adaptive Drive (BMW 535i xDrive, BMW 550i xDrive)  |  |  |
| 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 belts on all seats with belt stopper, belt tightener and belt force limiter at the front, crash-activated headrests at the front, crash sensors, Tyre Defect Indicator |  |  |
| Steering                                    |         | Electric Power Steering (EPS) with Servotronic  | Hydraulic rack-and-pinion power steering with Servotronic  |  |
| Steering transmission, overall              | :1      | 17.1  | 17.9   | 17.9   |
| Tyres, front/rear                           |         | 225/55 R17 97W  | 225/55 R17 97W   | 245/45 R18 96Y RSC   |
| Rims, front/rear                            |         | 8J x 17 light-alloy   | 8J x 17 light-alloy  | 8J x 18 light-alloy  |

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|  |   |             | <b>BMW 528i xDrive</b> | <b>BMW 535i xDrive</b> | <b>BMW 550i xDrive</b> |
|--|---|-------------|------------------------|------------------------|------------------------|
| <b>BMW ConnectedDrive</b>  |   |             |                        |                        |                        |
| Comfort  | Opt: BMW Assist including Enquiry Service, remote-control functions, Real-Time Traffic Information, BMW TeleServices, integration of mobile terminals   |             |                        |                        |                        |
| Infotainment   | Opt: Internet, BMW Online incl Parkinfo, National Info, Google Local Search, News, Realtime Weather, BMW Routes, Office Functions, Bluetooth Audio Streaming, Online Update Music Tracks, Apps  |             |                        |                        |                        |
| Safety   | Optional: Adaptive Headlights with Bending Lights, variable light distribution and adaptive headlight range control, High-Beam Assistant, Park Distance Control, back-up camera, Surround View including Side View and Top View, BMW Night Vision with detection of persons, Head-Up Display, Parking Assistant, collision warning with brake activation function in combination with Active Cruise Control with Stop & Go, Lane Change Warning, Lane Departure Warning, Speed Limit Info, Active Protection, Automatic/Enhanced Emergency Call |             |                        |                        |                        |
| <b>Transmission</b>  |   |             |                        |                        |                        |
| Type of gearbox  | Eight-speed automatic with Steptronic   |             |                        |                        |                        |
| Gear ratios  | I   | :1          | 4.714                  | 4.714                  | 4.714                  |
|  | II  | :1          | 3.143                  | 3.143                  | 3.143                  |
|  | III   | :1          | 2.106                  | 2.106                  | 2.106                  |
|  | IV  | :1          | 1.667                  | 1.667                  | 1.667                  |
|  | V   | :1          | 1.285                  | 1.285                  | 1.285                  |
|  | VI  | :1          | 1.000                  | 1.000                  | 1.000                  |
|  | VII   | :1          | 0.839                  | 0.839                  | 0.839                  |
|  | VIII  | :1          | 0.667                  | 0.667                  | 0.667                  |
|  | R   | :1          | 3.295                  | 3.295                  | 3.317                  |
| Final drive  |   | :1          | 3.231                  | 3.077                  | 2.077                  |
| <b>Performance</b>   |   |             |                        |                        |                        |
| Power-to-weight ratio  | kg/kW   |             | 9.5                    | 7.8                    | 6.3                    |
| Output per litre   | kW  |             | 90.1                   | 75.5                   | 68.3                   |
| Acceleration   | 0–100 km/h  | sec         | 6.5                    | 5.8                    | 4.8                    |
|  | Standing-start  | sec         | 26.6                   | 25.6                   | 23.3                   |
|  | in 4th gear   | 80–120 km/h | sec                    | –                      | –                      |
| Top speed  | km/h  |             | 250                    | 250                    | 250                    |
| <b>BMW EfficientDynamics</b>   |   |             |                        |                        |                        |
| BMW EfficientDynamics, standard features   | Brake Energy Regeneration with recuperation display, Auto Start Stop function (BMW 528i xDrive, BMW 535i xDrive), ECO PRO mode (BMW 528i xDrive, BMW 535i xDrive), intelligent lightweight construction, on-demand operation of ancillary units, Electric Power Steering (BMW 528i xDrive), air flap control (BMW 528i xDrive, BMW 535i xDrive), map-controlled oil pump (BMW 528i xDrive, BMW 535i xDrive), detachable a/c compressor, tyres with reduced roll resistance  |             |                        |                        |                        |
| <b>Fuel consumption EU<sup>3)</sup></b>  |   |             |                        |                        |                        |
| With standard wheels and tyres   |   |             |                        |                        |                        |
| BMW 528i xDrive, BMW 535i xDrive: 8J x 17 wheels, 225/55 R17 tyres (2K1)   |   |             |                        |                        |                        |
| BMW 550i xDrive: 8J x 18 wheels and 245/45 R18 tyres (2K2)   |   |             |                        |                        |                        |
| Urban  | ltr/100 km  |             | 9.2                    | 10.8                   | 16.4                   |
| Extra-urban  | ltr/100 km  |             | 5.7                    | 6.3                    | 7.9                    |
| Combined   | ltr/100 km  |             | 7.0                    | 8.0                    | 11.0                   |
| CO <sub>2</sub>  | g/km  |             | 162                    | 185                    | 256                    |
| With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres (2HM, 2K2, 931)   |   |             |                        |                        |                        |
| Urban  | ltr/100 km  |             | 9.4                    | 11.0                   | –                      |
| Extra-urban  | ltr/100 km  |             | 5.8                    | 6.4                    | –                      |
| Combined   | ltr/100 km  |             | 7.1                    | 8.1                    | –                      |
| CO <sub>2</sub>  | g/km  |             | 166                    | 188                    | –                      |
| With 8J x 18 wheels at front, 9J x 18 at rear and 245/45 R18 tyres at front, 275/40 R18 at rear (2AH, 2DC, 2NC),<br>With 8.5J x 19 wheels at front, 9J x 19 at rear and 245/40 R19 tyres at front, 275/35 R19 at rear (2K3, 2WC, 2MZ, 2ND),<br>With 8.5J x 20 wheels at front, 9J x 20 at rear and 245/35 R20 tyres at front, 275/30 R20 at rear (2H9) |   |             |                        |                        |                        |
| Urban  | ltr/100 km  |             | 9.4                    | 11.0                   | 16.4                   |
| Extra-urban  | ltr/100 km  |             | 5.9                    | 6.5                    | 7.9                    |
| Combined   | ltr/100 km  |             | 7.2                    | 8.2                    | 11.0                   |
| CO <sub>2</sub>  | g/km  |             | 168                    | 190                    | 257                    |
| Emission rating  |   |             | EU5                    | EU5                    | EU5                    |

Specifications applicable to ACEA markets, data relevant to homologation applicable in part only to Germany (weight)

<sup>1)</sup> Height with roof aerial: 1475 mm

<sup>2)</sup> Oil change

<sup>3)</sup> Fuel consumption and CO<sub>2</sub> emissions depend on the selected tyre format