

Specifications BMW 5 Series Sedan. 520i, 528i



| | | BMW 520i | BMW 528i |
|---|---------|---|---|
| Body | | | |
| No of doors/seats | | 4 / 5 | 4 / 5 |
| Length/width/height ¹⁾ (unladen) | mm | 4899 / 1860 / 1464 | 4899 / 1860 / 1464 |
| Wheelbase | mm | 2968 | 2968 |
| Track, front/rear | mm | 1600 / 1627 | 1600 / 1627 |
| Ground clearance | mm | 141 | 141 |
| Turning circle | m | 11.95 | 11.95 |
| Tank capacity | app ltr | 70 | 70 |
| Cooling system incl heater | ltr | 9.1 (9.9) | 9.1 (9.9) |
| Engine oil ²⁾ | ltr | 5.75 | 5.75 |
| Weight, unladen, to DIN/EU | kg | 1595 / 1670 (1610 / 1685) | 1610 / 1685 (1620 / 1695) |
| Max load to DIN | kg | 610 | 610 |
| Max permissible | kg | 2205 (2220) | 2220 (2230) |
| Max axle load, front/rear | kg | 1070 / 1280 | 1070 / 1280 |
| Max trailer load (12%), braked/unbraked | kg | 1900 (2000) / 750 | 2000 / 750 |
| Max roofload/max towbar downl | kg | 100 / 90 | 100 / 90 |
| Luggage comp capacity | ltr | 520 | 520 |
| Air resistance | Cd x A | 0.29 x 2.35 | 0.29 x 2.35 |
| Engine | | | |
| Config/No of cyls/valves | | Straight-four / 4 | Straight-four / 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) |
| Capacity, effective | cc | 1997 | 1997 |
| Stroke / bore | mm | 90.1 / 84.0 | 90.1 / 84.0 |
| Compression ratio | :1 | 11.0 | 10.3 |
| Fuel grade | | at least RON 91 | at least RON 91 |
| Max output | kW/hp | 135 / 184 | 180 / 245 |
| at | rpm | 5000-6250 | 5000-6500 |
| Max torque | Nm | 270 | 350 |
| at | rpm | 1250-4500 | 1250-4800 |
| Electrical System | | | |
| Battery/installation | Ah/- | 90 / luggage comp | 90 / luggage comp |
| Alternator | A/W | 170 / 2380 | 170 / 2380 |
| Driving Dynamics and Safety | | | |
| 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, with steering function, 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 30 / inner-vented |
| Brakes, rear | | Single-piston swing-calliper disc brakes | |
| Diameter | mm | 330 x 20 / inner-vented | 330 x 20 / 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 | |
| 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; optional: Integral Active Steering | |
| Steering transmission, overall | :1 | 17.1 | 17.1 |
| Tyres, front/rear | | 225/55 R17 97W | 225/55 R17 97W |
| Rims, front/rear | | 8J x 17 light-alloy | 8J x 17 light-alloy |

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8/2011

Valid from
9/2011

| | | BMW 520i | BMW 528i | |
|--|----------------|---|---------------|---------|
| BMW ConnectedDrive | | | | |
| 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 | | |
| Transmission | | | | |
| Type of gearbox | | Six-speed manual (optional: eight-speed automatic with Steptronic) | | |
| Gear ratios | I | :1 | 3.683 (4.714) | |
| | II | :1 | 2.062 (3.143) | |
| | III | :1 | 1.313 (2.106) | |
| | IV | :1 | 1.000 (1.667) | |
| | V | :1 | 0.809 (1.285) | |
| | VI | :1 | 0.677 (1.000) | |
| | VII | :1 | – (0.839) | |
| | VIII | :1 | – (0.667) | |
| | R | :1 | 3.348 (3.295) | |
| Final drive | | :1 | 3.909 (3.231) | |
| Performance | | | | |
| Power-to-weight ratio | kg/kW | 11.8 (11.9) | 8.9 (9.0) | |
| Output per litre | kW | 67.6 | 90.1 | |
| Acceleration | 0–100 km/h | sec | 7.9 (8.0) | |
| | Standing-start | sec | 29.1 (29.2) | |
| | in 4th gear | 80–120 km/h | sec | 7.5 (–) |
| | Top speed | km/h | 227 (226) | |
| | | | 250 (250) | |
| BMW EfficientDynamics | | | | |
| BMW EfficientDynamics, standard features | | Brake Energy Regeneration with recuperation display, Auto Start Stop function, gearshift point indicator (on manual gearbox models), ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, air flap control, Electric Power Steering (EPS), map-controlled oil pump, detachable a/c compressor, tyres with reduced roll resistance | | |
| Fuel consumption EU³⁾ | | | | |
| With standard wheels and tyres: 8J x 17 wheels, 225/55 R17 tyres (2K1) | | | | |
| Urban | ltr/100 km | 8.9 (8.3) | 9.1 (8.6) | |
| Extra-urban | ltr/100 km | 5.5 (5.3) | 5.5 (5.3) | |
| Combined | ltr/100 km | 6.8 (6.4) | 6.8 (6.5) | |
| CO ₂ | g/km | 157 (149) | 159 (152) | |
| With 8J x 18 wheels and 245/45 R18 tyres and with winter tyres (2HM, 2K2, 931) | | | | |
| Urban | ltr/100 km | 9.1 (8.5) | 9.3 (8.8) | |
| Extra-urban | ltr/100 km | 5.6 (5.4) | 5.7 (5.5) | |
| Combined | ltr/100 km | 6.9 (6.6) | 7.0 (6.7) | |
| CO ₂ | g/km | 161 (153) | 163 (156) | |
| 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), 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), 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 | 9.2 (8.6) | 9.4 (8.9) | |
| Extra-urban | ltr/100 km | 5.7 (5.5) | 5.8 (5.5) | |
| Combined | ltr/100 km | 7.0 (6.7) | 7.1 (6.8) | |
| CO ₂ | g/km | 163 (155) | 165 (158) | |
| Emission rating | | EU5 | EU5 | |

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

¹⁾ Height with roof aerial: 1475 mm

²⁾ Oil change

³⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format