

# Technical specifications.

## BMW 7 Series.

### 740d xDrive.



BMW 740d xDrive		
<b>Body</b>		
No. of doors / seats		4 / 5
Length/width/height (unladen)	mm	5391 / 1950 / 1544
Wheelbase	mm	3215
Track, front/rear	mm	1662 / 1684
Ground clearance (unladen)	mm	147
Turning circle	m	12.3
Fuel tank capacity	approx. l	74
Weight, unladen, to DIN/EU	kg	2180 / 2255
Max. load to DIN	kg	715
Max. permissible weight	kg	2895
Max. axle load, front/rear	kg	1405 / 1540
Max. trailer load braked (12%/unbraked)	kg	2100 / 750
Max. roofload/towbar download	kg	- / 85
Luggage comp. capacity	l	540
Air resistance	cx x A	0.26 x 2.59
<b>Power Unit</b>		
Engine technology		BMW TwinPower Turbo technology: multi-stage turbocharging, high- and low-pressure turbochargers with variable intake geometry, common-rail direct injection with solenoid injectors (max. injection pressure: 2500 bar), 48V mild hybrid technology using an electric motor integrated into the transmission
Max. output, overall <sup>1)</sup>	kW/hp	220 / 300
Max. torque, overall <sup>1)</sup>	Nm	670
<b>Petrol Engine</b>		
Config./No. of cyls./valves		In-line / 6 / 4
Effective capacity	cc	2993
Stroke/bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		Diesel
Nominal power	kW/hp	210 / 286
at	rpm	4000
Nominal torque	Nm	650
at	rpm	1500 – 2500
Output per litre	kW/l	70.2
<b>Electric Motor</b>		
Nominal power	kW/hp	13 / 18
Nominal torque	Nm	200
<b>Electrical System</b>		
12V battery/installation	Ah/-	70 / engine compartment
48V battery/installation	Ah/-	20 / luggage compartment
<b>Driving Dynamics and Safety</b>		
Suspension, front		Double-wishbone axle in aluminium construction, adaptive air suspension with automatic self-levelling, electronically controlled dampers
Suspension, rear		Five-link axle in aluminium construction, adaptive air suspension with automatic self-levelling, electronically controlled dampers
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, ASC and DTC (Dynamic Traction Control), ARB technology (near-actuator wheel slip limitation), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, drive-off assistant, trailer stability control, Performance Control, DSC networked with xDrive all-wheel-drive system; 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 tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS) with Servotronic function and variable steering ratio; optional: Integral Active Steering
Steering ratio, overall	:1	15.6
Tyres, front/rear		245/50 R19 105Y XL
Rims, front/rear		8.5J x 19 light-alloy

<b>BMW 740d xDrive</b>			
<b>Transmission</b>			
Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.501
	II	:1	3.520
	III	:1	2.200
	IV	:1	1.720
	V	:1	1.301
	VI	:1	1.000
	VII	:1	0.833
	VIII	:1	0.640
	R	:1	4.543
Final drive		:1	2.647
<b>Performance</b>			
Power-to-weight ratio (DIN)	kg/kW		9.9
Acceleration 0–100 km/h	s		5.8
Top speed	km/h		250
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics standard features	48V mild hybrid technology, Brake Energy Regeneration with recuperation display, Auto Start Stop function, Personal and Efficient 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, tyres with reduced rolling resistance, BMW Blue Performance technology with SCR catalytic converter		
<b>Fuel Consumption ECE</b>			
Combined (WLTP)	l/100		6.8 – 6.1
Combined (NEDC)	l/100		–
CO <sub>2</sub> (WLTP)	g/km		178 – 160
CO <sub>2</sub> (NEDC)	g/km		–
Emission rating			Euro 6d

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)  
All figures relating to performance, fuel/electric power consumption and emissions are provisional.

<sup>1)</sup> Developed by the combination of the combustion engine (stated nominal figure) and the electric motor (up to stated nominal figure)

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

All values were calculated based on the new WLTP test cycle. WLTP values are taken as the basis for determining vehicle-related taxes or other duties based (at least inter alia) on CO<sub>2</sub> emissions as well as eligibility for any applicable vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures can also be found at [www.bmw.de/wltp](http://www.bmw.de/wltp).

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' (Guide to the fuel economy, CO<sub>2</sub> emissions and electric power consumption of new passenger cars), which can be obtained free of charge from all dealerships, from Deutsche Automobil Treuhand GmbH (DAT), Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen and at <https://www.dat.de/co2>.