

Specifications. BMW 7 Series. 750i, 750Li



		BMW 750i	BMW 750Li
Body			
No. of doors/seats		4 / 5	4 / 5
Length/width/height ¹⁾ (unladen)	mm	5098 / 1902 / 1478	5238 / 1902 / 1485
Wheelbase	mm	3070	3210
Track, front/rear	mm	1612 / 1640	1612 / 1640
Ground clearance	mm	135	135
Turning circle	m	12,3	12,8
Tank capacity	approx. ltr	78	78
Engine oil ²⁾	ltr	9.5	9.5
Weight, unladen, to DIN/EU	kg	1820 / 1895	1865 / 1940
Max. load to DIN	kg	695	690
Max. permissible weight	kg	2515	2555
Max. axle load, front/rear	kg	1225 / 1345	1235 / 1375
Max. trailer load, braked (12%/unbraked)	kg	2100 / 750	2100 / 750
Max. roof load/towbar download	kg	100 / 100	100 / 100
Luggage comp. capacity	ltr	515	515
Air resistance	c _d x A	0.26 x 2.41	0.26 x 2.42
Engine			
Config./No. of cyls./valves		V / 8 / 4	V / 8 / 4
Engine technology		BMW TwinPower Turbo technology: two TwinScroll turbochargers, High Precision Injection, VALVETRONIC fully variable valve control, Double-VANOS variable camshaft timing	
Effective capacity	cm ³	4395	4395
Stroke/bore	mm	88.3 / 89.0	88.3 / 89.0
Compression ratio	:1	10.5	10.5
Fuel		min RON 91	min RON 91
Output	kW/hp	330 / 450	330 / 450
at	rpm	5500 – 6000	5500 – 6000
Torque	Nm	650	650
at	rpm	1800 – 4500	1800 – 4500
Electrical System			
Battery/Installation	Ah/–	105 / luggage comp.	105 / luggage comp.
Alternator	A/W	250 / 3500	250 / 3500
Driving Dynamics and Safety			
Suspension, front		Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive, air suspension with automatic self-levelling	
Suspension, rear		Five-link axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation, air suspension with automatic self-levelling	
Brakes, front		Four-piston fixed-calliper disc brakes, vented	
Brakes, rear		Single-piston floating-calliper disc brakes, vented	
Driving stability systems		Standard: DSC incl ABS and Dynamic Traction Control (DTC), Cornering Brake Control (CBC), Dynamic Brake Control (DBC), Dry Braking function, Fading Compensation, Start-Off Assistant, Dynamic Damper Control	
Safety equipment		Standard: airbags for driver and passenger, side airbags for driver and passenger, head airbags for 1st and 2nd seat row, knee airbag for driver, three-point inertia-reel belts on all seats, integrated at the front with belt tightener and belt force limiter, crash sensors, tyre pressure indicator	
Steering		Electric Power Steering (EPS) with Servotronic function, optional: Integral Active Steering	
Steering ratio, overall	:1	16.9	16.9
Tyres, front/rear		245/50 R18 100Y	245/50 R18 100Y
Rims, front/rear		8J x 18 light alloy	8J x 18 light alloy

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Transmission			
Type of gearbox		8-speed Steptronic transmission	8-speed Steptronic transmission
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.313
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.478
Final drive		:1	2.813
Performance			
Power-to-weight ratio (DIN)	kg/kW	5.5	5.7
Output per litre	kW/ltr	75.1	75.1
Acceleration 0–100 km/h	s	4.7	4.7
in 5th gear 80–120 km/h	s	–	–
Top speed	km/h	250	250
BMW EfficientDynamics			
BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Gearshift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-controlled oil pump, disengageable climate compressor, differential with optimised warm-up behaviour, tyres with reduced rolling resistance		
Fuel consumption EU cycle³⁾			
With standard tyres			
Urban	ltr/100 km	11.1	11.3
Extra-urban	ltr/100 km	6.1	6.2
Combined	ltr/100 km	7.9	8.0
CO ₂	g/km	184	187
With rims 8.5J x 19 and tyres 245/45 R19 as well as winter tyres			
Urban	ltr/100 km	11.3	11.4
Extra-urban	ltr/100 km	6.1	6.2
Combined	ltr/100 km	8.0	8.1
CO ₂	g/km	186	189
With rims 8.5J x 19 front, 9.5J x 19 rear and tyres 245/45 R19 front, 275/40 R19 rear, With rims 8.5J x 20 front, 10J x 20 rear and tyres 245/40 R20 front, 275/35 R20 rear, With rims 8.5J x 21 front, 10J x 21 rear and tyres 245/35 R21 front, 275/30 R21 rear			
Urban	ltr/100 km	11.4	11.6
Extra-urban	ltr/100 km	6.2	6.3
Combined	ltr/100 km	8.1	8.3
CO ₂	g/km	189	192
Emission rating		EU6	EU6

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

¹⁾ Height including roof aerial

²⁾ Oil change volume

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