

Specifications. BMW 7 Series. 740i, 740Li



		BMW 740i	BMW 740Li
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	1618 / 1646	1618 / 1646
Ground clearance	mm	135	135
Turning circle	m	12.3	12.8
Tank capacity	approx. ltr	78	78
Engine oil ²⁾	ltr	6.5	6.5
Weight, unladen, to DINEU	kg	1725 / 1800	1770 / 1845
Max. load to DIN	kg	675	675
Max. permissible weight	kg	2400	2445
Max. axle load, front/rear	kg	1135 / 1320	1155 / 1340
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	0.24 x 2.41	0.24 x 2.42
Engine			
Config./No. of cyls./valves		In-line / 6 / 4	In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve control, Double-VANOS variable camshaft timing	
Effective capacity	cm ³	2998	2998
Stroke/bore	mm	94.6 / 82.0	94.6 / 82.0
Compression ratio	:1	11.0	11.0
Fuel		min RON 91	min RON 91
Output	kW/hp	240 / 326	240 / 326
at	rpm	5500 – 6500	5500 – 6500
Torque	Nm	450	450
at	rpm	1380 – 5000	1380 – 5000
Electrical System			
Battery/Installation	Ah/–	105 / luggage comp.	105 / luggage comp.
Alternator	A/W	180 / 2520	180 / 2520
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		225/60 R17 99Y	225/60 R17 99Y
Rims, front/rear		7.5J x 17 light alloy	7.5J x 17 light alloy

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Transmission				
Type of gearbox	8-speed Steptronic transmission		8-speed Steptronic transmission	
Gear ratios	I	:1	5.000	5.000
	II	:1	3.200	3.200
	III	:1	2.143	2.143
	IV	:1	1.720	1.720
	V	:1	1.314	1.314
	VI	:1	1.000	1.000
	VII	:1	0.822	0.822
	VIII	:1	0.640	0.640
	R	:1	3.456	3.456
Final drive		:1	3.077	3.077
Performance				
Power-to-weight ratio (DIN)	kg/kW	7.2	7.4	
Output per litre	kW/ltr	80.1	80.1	
Acceleration 0–100 km/h	s	5.5	5.6	
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 cycle ³⁾				
With standard tyres				
Urban	ltr/100 km	9.1	9.1	
Extra-urban	ltr/100 km	5.2	5.2	
Combined	ltr/100 km	6.6	6.6	
CO ₂	g/km	154	154	
With rims 8J x 18 and tyres 245/50 R18, with rims 8.5J x 19 and tyres 245/45 R19 as well as winter tyres				
Urban	ltr/100 km	9.4	9.4	
Extra-urban	ltr/100 km	5.3	5.3	
Combined	ltr/100 km	6.8	6.8	
CO ₂	g/km	159	159	
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	9.7	9.7	
Extra-urban	ltr/100 km	5.5	5.5	
Combined	ltr/100 km	7.0	7.0	
CO ₂	g/km	164	164	
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