

Specifications.

BMW 1 Series.

116i.



BMW 116i		
Body		
No. of doors/seats		5 / 5
Length/width/height (unladen)	mm	4319 / 1799 / 1434
Wheelbase	mm	2670
Track, front/rear	mm	1565 / 1565
Ground clearance	mm	153
Turning circle	m	11.4
Tank capacity	approx. ltr	42
Engine oil ¹⁾	ltr	4.5
Weight, unladen, to DIN/EU	kg	1320 / 1395 (1340 / 1415)
Max. load to DIN	kg	530 (530)
Max. permissible weight	kg	1850 (1870)
Max. axle load, front/rear	kg	980 / 940 (1005 / 940)
Max. trailer load, braked (12%/unbraked)	kg	1100 / 695 (1100 / 705)
Max. roof load/towbar download	kg	75 / 75
Luggage comp. capacity	ltr	380 – 1200
Air resistance	C _d x A	0.27 x 2.19
Engine		
Config./No. of cyls./valves		in-line / 3 / 4
Engine technology	BMW TwinPower Turbo technology: turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing	
Effective capacity	cm ³	1499
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min. RON 91
Output	kW/hp	80 / 109
at	rpm	4300 – 6500
Torque	Nm	190
at	rpm	1380 – 3800
Electrical System		
Battery/Installation	Ah/–	60 / engine comp.
Driving Dynamics and Safety		
Suspension, front	Single-joint spring strut axle in lightweight aluminium-steel construction	
Suspension, rear	Multi-link axle in lightweight steel construction with separate spring and damper configuration	
Brakes, front	Single-piston floating-calliper disc brakes, vented	
Brakes, rear	Single-piston floating-calliper disc brakes	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), ARB technology (actuator contiguous wheel slip limitation), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, Start-Off Assistant, EDLC (Electronic Differential Lock Control), Performance Control, trailer stability control; optional: M Sport suspension	
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 latch tensioner and belt force limiter at the front seats, crash sensors, Tyre Pressure Indicator	
Steering	Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: M Sport steering	
Steering ratio, overall	:1	15.0
Tyres, front/rear		205/55 R16 91W
Rims, front/rear		7J x 16

BMW 116i			
Transmission			
Type of gearbox		Six-speed manual (seven-speed Steptronic dual-clutch transmission)	
Gear ratios	I	:1	3.615 (16.324)
	II	:1	1.952 (9.773)
	III	:1	1.241 (6.558)
	IV	:1	0.969 (4.983)
	V	:1	0.806 (4.129)
	VI	:1	0.683 (3.344)
	VII	:1	– (2.747)
	R	:1	3.538 (14.968)
Final drive		:1	3.882 (3.789)
Performance			
Power-to-weight ratio (DIN)	kg/kW		16.5 (16.8)
Output per litre	kW/l		53.4
Acceleration 0–100 km/h	s		10.6 (10.6)
in 5 th gear 80–120 km/h	s		12.6 (–)
Top speed	km/h		200 (200)
BMW EfficientDynamics			
BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator, ECO PRO and COMFORT mode with coasting function (with automatic transmission), intelligent lightweight construction, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential with optimised warm-up behaviour, tyres with reduced rolling resistance		
Fuel consumption EU cycle			
Urban	ltr/100 km		7.0 – 6.8 (6.1 – 5.8)
Extra-urban	ltr/100 km		5.1 – 4.6 (5.0 – 4.6)
Combined	ltr/100 km		5.8 – 5.4 (5.5 – 5.1)
CO ₂	g/km		133 – 124 (125 – 116)
Emission rating			Euro 6d

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)
Figures in brackets are for vehicles with automatic transmission

¹⁾ Oil change volume

The values for fuel consumption, CO₂ emission and energy consumption shown were determined in the standardized test cycle according to the European Regulation (EC) 715/2007 in the version applicable at the time of type approval. The figures refer to a vehicle with basic configuration in Germany and the range shown considers optional equipment and the different size of wheels and tires available on the selected model and may vary during the configuration.

The values are already based on the test cycle according to the new WLTP regulation and are translated back into NEDC-equivalent values in order to allow a comparison between vehicles. With respect to these vehicles, for vehicle related taxes or other duties based (at least inter alia) on CO₂-emissions the CO₂ values may differ to the values stated here.

BMW 1 Series. 120i.

BMW 120i		
Body		
No. of doors/seats		5 / 5
Length/width/height (unladen)	mm	4319 / 1799 / 1434
Wheelbase	mm	2670
Track, front/rear	mm	1561 / 1561
Ground clearance	mm	153
Turning circle	m	11.4
Tank capacity	approx. ltr	50
Engine oil ¹⁾	ltr	5.25
Weight, unladen, to DIN/EU	kg	1390 / 1465
Max. load to DIN	kg	530
Max. permissible weight	kg	1920
Max. axle load, front/rear	kg	1035 / 955
Max. trailer load, braked (12%/unbraked)	kg	1300 / 730
Max. roof load/towbar download	kg	75 / 75
Luggage comp. capacity	ltr	380 – 1200
Air resistance	C _d x A	0.28 x 2.19
Engine		
Config./No. of cyls./valves		in-line / 4 / 4
Engine technology	BMW TwinPower Turbo technology: turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing	
Effective capacity	cm ³	1998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min. RON 91
Output	kW/hp	131 / 178
at	rpm	5000 – 5500
Torque	Nm	280
at	rpm	1350 – 4200
Electrical System		
Battery/Installation	Ah/–	70 / engine comp.
Driving Dynamics and Safety		
Suspension, front	Single-joint spring strut axle in lightweight aluminium-steel construction	
Suspension, rear	Multi-link axle in lightweight steel construction with separate spring and damper configuration	
Brakes, front	Single-piston floating-calliper disc brakes, vented	
Brakes, rear	Single-piston floating-calliper disc brakes, vented	
Driving stability systems	Standard: DSC incl. ABS, ASC and DTC (Dynamic Traction Control), ARB technology (actuator contiguous wheel slip limitation), DBC (Dynamic Brake Control), Dry Braking function, fading compensation, Start-Off Assistant, EDLC (Electronic Differential Lock Control), Performance Control, trailer stability control; optional: M Sport suspension, adaptive suspension	
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 latch tensioner and belt force limiter at the front seats, crash sensors, Tyre Pressure Indicator	
Steering	Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: M Sport steering	
Steering ratio, overall	:1	15.0
Tyres, front/rear	225/45 R17 94Y XL	
Rims, front/rear	7.5J x 17 light-alloy	

BMW 120i			
Transmission			
Type of gearbox		Seven-speed Steptronic dual-clutch transmission	
Gear ratios	I	:1	15.304
	II	:1	9.026
	III	:1	5.735
	IV	:1	4.015
	V	:1	3.108
	VI	:1	2.487
	VII	:1	2.016
	R	:1	13.825
Final drive		:1	3.684
Performance			
Power-to-weight ratio (DIN)	kg/kW		10.6
Output per litre	kW/l		65.6
Acceleration 0–100 km/h	s		7.0
Top speed	km/h		235
BMW EfficientDynamics			
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator, ECO PRO and COMFORT mode with coasting function, intelligent lightweight construction, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential with optimised warm-up behaviour, tyres with reduced rolling resistance	
Fuel consumption EU cycle			
Urban	ltr/100 km		7.0 – 6.9
Extra-urban	ltr/100 km		5.1 – 4.6
Combined	ltr/100 km		5.8 – 5.5
CO ₂	g/km		134 – 126
Emission rating			Euro 6d

Specifications apply to ACEA markets/data relevant to homologation applies in part only to Germany (weight)

¹⁾ Oil change volume

The values for fuel consumption, CO₂ emission and energy consumption shown were determined in the standardized test cycle according to the European Regulation (EC) 715/2007 in the version applicable at the time of type approval. The figures refer to a vehicle with basic configuration in Germany and the range shown considers optional equipment and the different size of wheels and tires available on the selected model and may vary during the configuration.

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