

# Technical specifications.

## BMW 1 Series.

### 120.



BMW 120		
<b>Body</b>		
Number of doors/seats		5 / 5
Length/width/height (empty)	mm	4361 / 1800 / 1459
Wheelbase	mm	2670
Track width, front/rear	mm	1561 / 1562
Ground clearance	mm	156
Turning circle	m	11.7
Fuel tank capacity	approx. l	49
Engine oil <sup>1)</sup>	l	4,5
Weight unladen, acc. to DIN/EU	kg	1425 / 1500
Payload according to DIN	kg	565
Permitted total weight	kg	1990
Permitted axle loads, front/rear	kg	1050 / 1005
Perm. trailer load (12%) braked/unbraked	kg	1300 / 750
Max. roofload/towbar download	kg	75 / 75
Luggage compartment capacity	l	300 - 1135
Air resistance	c <sub>x</sub>	0.27
<b>Drive</b>		
Engine technology		BMW TwinPower Turbo Technology: Turbocharger, dual injection with direct injection High Precision Injection and intake pipe fuel injection, variable valve control VALVETRONIC, variable camshaft control double VANOS, 48-volt mild hybrid technology with an electric motor integrated into the transmission
Power output / total <sup>2)</sup>	kW/hp	125 / 170
Torque / total <sup>2)</sup>	Nm	280
<b>Petrol engine</b>		
Type/no. of cylinders/valves		in-line / 3 / 4
Displacement, effective	cc	1499
Stroke/bore	mm	94.6 / 82.0
Compression	:1	11.1
Fuel		min RON 91
Nominal power output at engine speed	kW/hp rpm	115 / 156 4700 - 6500
Nominal torque at engine speed	Nm rpm	240 1500 - 4400
Power output per litre	kW/l	76.7
<b>Electric motor</b>		
Nominal power output	kW/hp	15 / 20
Nominal torque	Nm	55
<b>Electrical system</b>		
12 volt battery/installation	Ah / -	60 / engine compartment
48 volt battery/installation	Ah / -	20 / Luggage compartment
<b>Driving dynamics and safety</b>		
Front wheel suspension		Single-joint spring-strut-type axle in aluminium-steel lightweight construction
Rear wheel suspension		Three-joint axle in lightweight steel construction
Brakes, front		Single-piston, floating calliper disc brakes
Brakes, rear		Single-piston, floating calliper disc brakes
Driving stability systems		Standard: DSC incl., ABS and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Performance Control, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, optional: Adaptive M Suspension
Safety equipment		Standard: Airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for the front and rear seat row, interaction airbag between driver and front passenger, three-point inertia-reel seat belts on all seats, front with belt tensioner and seat belt force limiter, crash sensors, tyre pressure display
Steering		Electromechanical power steering (EPS) with Servotronic function, optional: sport steering
Overall steering ratio	:1	15.3
Tyres, front/rear		205/55 R17 95Y XL
Wheel rims, front/rear		7.5J × 17 light-alloy

**BMW 120**

**Transmission**

Transmission type	7-speed Steptronic transmission with dual clutch		
Gear ratio	I	:1	16.324
	II	:1	9.573
	III	:1	5.952
	IV	:1	4.081
	V	:1	3.243
	VI	:1	2.549
	VII	:1	2.072
	R	:1	14.663

**Driving performance figures**

Weight-to-power ratio (DIN)	kg/kW	11.4
Acceleration 0-100 km/h	s	7.8
Top speed	km/h	226

**BMW EfficientDynamics**

BMW EfficientDynamics measures as standard	48 hybrid technology with 48-volt starter generator, brake energy recuperation with recuperation indicator, Auto Start Stop function, PERSONAL and EFFICIENT modes with coasting function, Route-ahead Assistant, optimum shift indicator in manual shift mode, electromechanical power steering, BMW EfficientLightweight, optimised aerodynamic properties, active air-flap control, auxiliary units controlled according to demand, map-controlled oil pump, final drive unit with optimised warm-up phase properties, tyres with reduced rolling resistance
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**Fuel consumption in EU cycle**

total (WLTP)	l/100	6.0 - 5.3
CO <sub>2</sub> (WLTP)	g/km	135 - 121
Emission rating		Euro 6e
CO <sub>2</sub> class(es)		D

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany (weights)

<sup>1)</sup> Oil change amount

<sup>2)</sup> Is made up of combustion engine drive (stated nominal value) and electric drive (up to stated nominal value)

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range were measured using the methods required according to Regulation VO (EC) 715/2007 as amended. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

# BMW 1 Series. M135 xDrive.

BMW M135 xDrive		
<b>Body</b>		
Number of doors/seats		5 / 5
Length/width/height (empty)	mm	4361 / 1800 / 1459
Wheelbase	mm	2670
Track width, front/rear	mm	1562 / 1562
Ground clearance	mm	156
Turning circle	m	11.7
Fuel tank capacity	approx. l	49
Engine oil <sup>1)</sup>	l	5.25
Weight unladen, acc. to DIN/EU	kg	1550 / 1625
Payload according to DIN	kg	550
Permitted total weight	kg	2100
Permitted axle loads, front/rear	kg	1105 / 1045
Perm. trailer load (12%) braked/unbraked	kg	<sup>2)</sup> / 750
Max. roofload/towbar download	kg	75 / 75
Luggage compartment capacity	l	380 - 1200
Air resistance	cx	<sup>2)</sup>
<b>Engine</b>		
Type/no. of cylinders/valves		in-line / 4 / 4
Engine technology		M TwinPower Turbo Technology: Turbocharger, dual injection with direct injection High Precision Injection and intake pipe fuel injection, variable valve control VALVETRONIC, variable camshaft control double VANOS
Displacement, effective	cc	1998
Stroke/bore	mm	94.6 / 82.0
Compression	:1	9.5
Fuel		min RON 91
Nominal power output	kW/hp	221 / 300
at engine speed	rpm	5750 - 6500
Nominal torque	Nm	400
at engine speed	rpm	2000 - 4500
Power output per litre	kW/l	110.6
<b>Electrical system</b>		
Battery/installation	Ah / -	60 / engine compartment
<b>Driving dynamics and safety</b>		
Front wheel suspension		Single-joint spring-strut-type axle in aluminium-steel lightweight construction, M specific elastokinematics
Rear wheel suspension		Three-joint axle in lightweight steel construction, M specific elastokinematics
Brakes, front		Four-piston, fixed-calliper disc brakes, ventilated
Brakes, rear		Single-piston, floating-calliper disc brakes, ventilated
Driving stability systems		Standard: DSC incl. ABS and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, DSC linked with xDrive all-wheel drive, mechanical differential lock at the front, Adaptive M Suspension
Safety equipment		Standard: Airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for the front and rear seat row, interaction airbag between driver and front passenger, three-point inertia-reel seat belts on all seats, front with belt tensioner and seat belt force limiter, crash sensors, tyre pressure display
Steering		Electromechanical power steering (EPS) with Servotronic function, sport steering
Overall steering ratio	:1	15.3
Tyres, front/rear		225/45 R18 95Y XL
Wheel rims, front/rear		8J x 18 light-alloy

<b>BMW M135 xDrive</b>			
<b>Transmission</b>			
Transmission type		7-speed Steptronic transmission with dual clutch	
Gear ratio	I	:1	16.991
	II	:1	10.588
	III	:1	7.076
	IV	:1	4.910
	V	:1	4.001
	VI	:1	3.273
	VII	:1	2.522
	R	:1	16.323
<b>Driving performance figures</b>			
Weight-to-power ratio (DIN)	kg/kW		7.0
Acceleration 0-100 km/h	s		4.9
Top speed	km/h		250
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics measures as standard		Brake energy recuperation with recuperation indicator, Auto Start Stop function, PERSONAL and EFFICIENT modes with coasting function, Route-ahead Assistant, optimum shift indicator in manual shift mode, electromechanical power steering, BMW EfficientLightweight, optimised aerodynamic properties, active air-flap control, auxiliary units controlled according to demand, map-controlled oil pump, efficiency-optimised all-wheel drive, final drive unit with optimised warm-up phase properties, tyres with reduced rolling resistance	
<b>Fuel consumption in EU cycle</b>			
total (WLTP)	l/100		8.1 - 7.6
CO <sub>2</sub> (WLTP)	g/km		184 - 173
Emission rating			Euro 6e
CO <sub>2</sub> class(es)			G - F

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany (weights)

- <sup>1)</sup> Oil change amount
- <sup>2)</sup> Data not yet available

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range were measured using the methods required according to Regulation VO (EC) 715/2007 as amended. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

# BMW 1 Series. 118d.

<b>BMW 118d</b>		
<b>Body</b>		
Number of doors/seats		5 / 5
Length/width/height (empty)	mm	4361 / 1800 / 1459
Wheelbase	mm	2670
Track width, front/rear	mm	1561 / 1562
Ground clearance	mm	156
Turning circle	m	11.7
Fuel tank capacity	approx. l	49
Engine oil <sup>1)</sup>	l	6.5
Weight unladen, acc. to DIN/EU	kg	1465 / 1540
Payload according to DIN	kg	585
Permitted total weight	kg	2050
Permitted axle loads, front/rear	kg	1085 / 1015
Perm. trailer load (12%)		
braked/unbraked	kg	1300 / 750
Max. roofload/towbar download	kg	75 / 75
Luggage compartment capacity	l	380 - 1200
Air resistance	c <sub>x</sub>	0.27
<b>Engine</b>		
Type/no. of cylinders/valves		in-line / 4 / 4
Engine technology		BMW TwinPower Turbo Technology: Multi-stage turbocharging, low-pressure charger with variable inlet geometry, common-rail direct injection with solenoid valve injectors (max. injection pressure: 2500 bar)
Displacement, effective	cc	1995
Stroke/bore	mm	90.0 / 84.0
Compression	:1	16.5
Fuel		Diesel
Power output	kW/hp	110 / 150
at engine speed	rpm	3750 - 4000
Torque	Nm	360
at engine speed	rpm	1500 - 2500
Power output per litre	kW/l	55.1
<b>Electrical system</b>		
Battery/installation	Ah / -	70 / engine compartment
<b>Driving dynamics and safety</b>		
Front wheel suspension		Single-joint spring-strut-type axle in aluminium-steel lightweight construction
Rear wheel suspension		Three-joint axle in lightweight steel construction
Brakes, front		Single-piston, floating calliper disc brakes
Brakes, rear		Single-piston, floating calliper disc brakes
Driving stability systems		Standard: DSC incl., ABS and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Performance Control, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, optional: Adaptive M Suspension
Safety equipment		Standard: Airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for the front and rear seat row, interaction airbag between driver and front passenger, three-point inertia-reel seat belts on all seats, front with belt tensioner and seat belt force limiter, crash sensors, tyre pressure display
Steering		Electromechanical power steering (EPS) with Servotronic function, optional: sport steering
Overall steering ratio	:1	15.3
Tyres, front/rear		205/55 R17 95Y XL
Wheel rims, front/rear		7.5J × 17 light-alloy

<b>BMW 118d</b>			
<b>Transmission</b>			
Transmission type		7-speed Steptronic transmission with dual clutch	
Gear ratio	I	:1	14.964
	II	:1	8.776
	III	:1	5.456
	IV	:1	3.741
	V	:1	2.972
	VI	:1	2.337
	VII	:1	1.900
	R	:1	13.441
<b>Driving performance figures</b>			
Weight-to-power ratio (DIN)	kg/kW		13.3
Acceleration 0-100 km/h	s		8.3
Top speed	km/h		222
<b>BMW EfficientDynamics</b>			
BMW EfficientDynamics measures as standard		Brake energy recuperation with recuperation indicator, electromechanical power steering, Auto Start Stop function, optimum shift indicator in manual shift mode, PERSONAL and EFFICIENT modes with coasting function, Route-ahead Assistant, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, auxiliary units controlled according to demand, map-controlled oil pump, final drive unit with optimised warm-up properties, tyres with reduced rolling resistance, BMW Blue Performance technology with SCR catalytic converter	
<b>Fuel consumption in EU cycle</b>			
total (WLTP)	l/100		5.2 - 4.6
CO <sub>2</sub> (WLTP)	g/km		136 - 122
Emission rating			Euro 6e
CO <sub>2</sub> class(es)			E - D

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<sup>1)</sup> Oil change amount

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range were measured using the methods required according to Regulation VO (EC) 715/2007 as amended. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

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# BMW 1 Series. 120d.

<b>BMW 120d</b>		
<b>Body</b>		
Number of doors/seats		5 / 5
Length/width/height (empty)	mm	4361 / 1800 / 1459
Wheelbase	mm	2670
Track width, front/rear	mm	1561 / 1562
Ground clearance	mm	156
Turning circle	m	11.7
Fuel tank capacity	approx. l	49
Engine oil <sup>1)</sup>	l	6.5
Weight unladen, acc. to DIN/EU	kg	1495 / 1570
Payload according to DIN	kg	565
Permitted total weight	kg	2060
Permitted axle loads, front/rear	kg	1100 / 1025
Perm. trailer load (12%) braked/unbraked	kg	1300 / 750
Max. roofload/towbar download	kg	75 / 75
Luggage compartment capacity	l	300 - 1135
Air resistance	c <sub>x</sub>	0.27
<b>Drive</b>		
Engine technology		BMW TwinPower Turbo Technology: Multi-stage turbocharging, high and low-pressure charger with variable inlet geometry, common-rail direct injection with solenoid valve injectors (max. injection pressure: 2500 bar), 48-volt mild hybrid technology with an electric motor integrated into the transmission
Power output / total <sup>2)</sup>	kW/hp	120 / 163
Torque / total <sup>2)</sup>	Nm	400
<b>Diesel engine</b>		
Type/no. of cylinders/valves		in-line / 4 / 4
Displacement, effective	cc	1995
Stroke/bore	mm	90.0 / 84.0
Compression	:1	16.5
Fuel		Diesel
Nominal power output	kW/hp	110 / 150
at engine speed	rpm	3750 - 4000
Nominal torque	Nm	360
at engine speed	rpm	1500 - 2500
Power output per litre	kW/l	55.1
<b>Electric motor</b>		
Nominal power output	kW/hp	15 / 20
Nominal torque	Nm	55
<b>Electrical system</b>		
12 volt battery/installation	Ah / -	60 / engine compartment
48 volt battery/installation	Ah / -	20 / Luggage compartment
<b>Driving dynamics and safety</b>		
Front wheel suspension		Single-joint spring-strut-type axle in aluminium-steel lightweight construction
Rear wheel suspension		Three-joint axle in lightweight steel construction
Brakes, front		Single-piston, floating calliper disc brakes
Brakes, rear		Single-piston, floating calliper disc brakes
Driving stability systems		Standard: DSC incl., ABS and DTC (Dynamic Traction Control), directly controlled wheel slip limitation, Cornering Brake Assist CBC, Brake Assist DBC, Performance Control, Dry Brake Function, Fade Compensation, Hill Start Control, Trailer Stability Control, optional: Adaptive M Suspension
Safety equipment		Standard: Airbags for driver and front passenger, side airbags for driver and front passenger, head airbags for the front and rear seat row, interaction airbag between driver and front passenger, three-point inertia-reel seat belts on all seats, front with belt tensioner and seat belt force limiter, crash sensors, tyre pressure display
Steering		Electromechanical power steering (EPS) with Servotronic function, optional: M sport steering
Overall steering ratio	:1	15.3
Tyres, front/rear		205/55 R17 95Y XL
Wheel rims, front/rear		7.5J × 17 light-alloy

**BMW 120d**

**Transmission**

Transmission type		7-speed Steptronic transmission with dual clutch	
Gear ratio	I	:1	14.964
	II	:1	8.776
	III	:1	5.456
	IV	:1	3.741
	V	:1	2.972
	VI	:1	2.337
	VII	:1	1.900
	R	:1	13.441

**Driving performance figures**

Weight-to-power ratio (DIN)	kg/kW	12.5
Acceleration 0-100 km/h	s	7.9
Top speed	km/h	222

**BMW EfficientDynamics**

BMW EfficientDynamics measures as standard	Mild hybrid technology with 48-volt starter generator, brake energy recuperation with recuperation indicator, electromechanical power steering, Auto Start Stop function, optimum shift indicator in manual shift mode, PERSONAL and EFFICIENT modes with coasting function, Route-ahead Assistant, BMW EfficientLightweight, optimised aerodynamic properties, active air flap control, auxiliary units controlled according to demand, map-controlled oil pump, efficiency-optimised all-wheel drive, final drive unit with optimised warm-up properties, tyres with reduced rolling resistance, BMW Blue Performance technology with SCR catalytic converter
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**Fuel consumption in EU cycle**

total (WLTP)	l/100	4.8 - 4.3
CO <sub>2</sub> (WLTP)	g/km	125 - 112
Emission rating		Euro 6e
CO <sub>2</sub> class(es)		D - C

Technical specifications valid for ACEA markets / registration-related data only relevant to Germany (weights)

<sup>1)</sup> Oil change amount

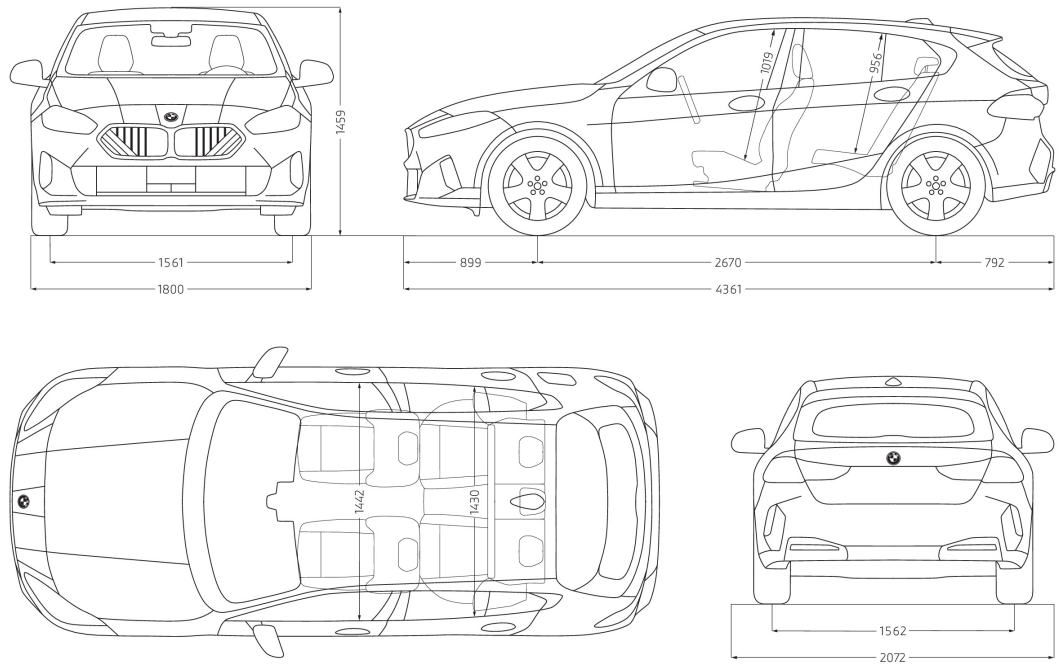
<sup>2)</sup> Is made up of combustion engine drive (stated nominal value) and electric drive (up to stated nominal value)

Fuel consumption, CO<sub>2</sub> emission figures and power consumption as well as electric range were measured using the methods required according to Regulation VO (EC) 715/2007 as amended. Where a range is shown, the WLTP figures take into account the impact of any optional extras.

Further information on the WLTP and NEDC measurement procedures is also available at [www.bmw.de/wltp](http://www.bmw.de/wltp) can be found.

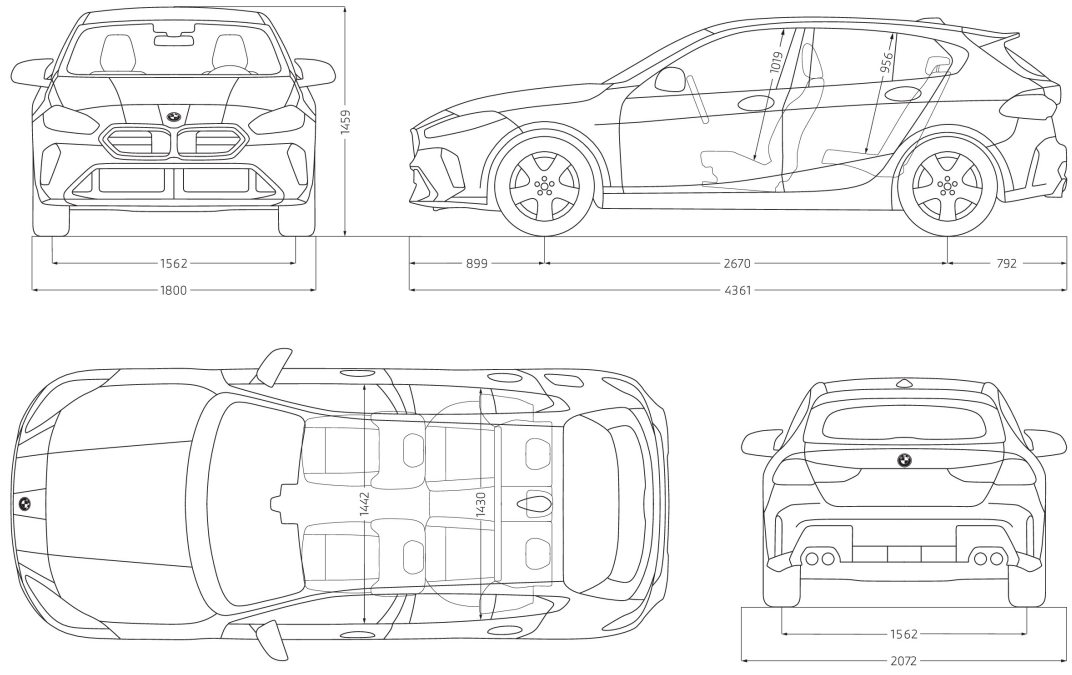


# Exterior and interior dimensions. BMW 1 Series.



The dimensions in the technical drawing are in millimetres and may vary depending on the model and the optional equipment.

# BMW 1 Series. M135 xDrive



The dimensions in the technical drawing are in millimetres and may vary depending on the model and the optional equipment.