

Technical specifications.

BMW Z4.

Z4 sDrive20i.



BMW Z4 sDrive20i		
Body		
No of doors/seats		2 / 2
Length/width/height (unladen)	mm	4324 / 1864 / 1304
Wheelbase	mm	2470
Track, front/rear	mm	1618 / 1613
Ground clearance	mm	117
Turning circle	m	11.0
Fuel tank capacity	approx. l	52
Engine oil ¹⁾	l	5.25
Weight, unladen, to DIN/EU	kg	1435 / 1510 (1450 / 1525)
Max load to DIN	kg	290 (290)
Max permissible weight	kg	1725 (1740)
Max axle load, front/rear	kg	830 / 935
Max trailer load		
braked (12%)/unbraked	kg	- / -
Max roofload/max towbar		
download	kg	- / -
Luggage comp capacity	l	281
Air resistance	c _d x A	0.31 x 2.07
Power Unit		
Config/No of cyls/valves		In-line / 4 / 4
Engine technology	BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing	
Effective capacity	cc	1998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	10.2
Fuel		min. RON 91
Max output	kW/hp	145 / 197
at	rpm	4500 – 6500
Max torque	Nm	320
at	rpm	1450 – 4200
Electrical System		
Battery/installation	Ah/-	80 / luggage compartment
Driving Dynamics and Safety		
Suspension, front	Double-joint spring strut axle in lightweight aluminium-steel construction, hydraulically damped torque strut bearing	
Suspension, rear	Five-link axle in lightweight aluminium-steel construction	
Brakes, front	Vented disc brakes, with single-piston floating callipers	
Brakes, rear	Vented disc brakes, with single-piston floating callipers	
Driving stability systems	Standard: DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant; optional: M Sport suspension, Adaptive suspension	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger with combined head airbags, three-point inertia-reel seatbelts with belt tensioner and belt force limiter, crash sensors, rollover protection system, tyre pressure indicator	
Steering	Electric Power Steering (EPS) with Servotronic function, variable sport steering	
Steering ratio, overall	:1	15.1
Tyres, front/rear	225/45 R18 95Y / 255/40 R18 99Y	
Rims, front/rear	8J x 18 light-alloy / 9J x 18 light-alloy	

BMW Z4 sDrive20i			
Transmission			
Type of transmission		Six-speed manual (eight-speed Steptronic transmission)	
Gear ratios	I	:1	4.110 (5.250)
	II	:1	2.248 (3.360)
	III	:1	1.403 (2.172)
	IV	:1	1.000 (1.720)
	V	:1	0.786 (1.316)
	VI	:1	0.601 (1.000)
	VII	:1	– (0.822)
	VIII	:1	– (0.640)
	R	:1	3.727 (3.712)
Final drive		:1	3.636 (3.154)
Performance			
Power-to-weight ratio (DIN)	kg/kW		9.9 (10.0)
Output per litre	kW/l		72.6
Acceleration 0–100 km/h	s		6.8 (6.6)
in 5 th gear 80–120 km/h	s		7.5 (–)
Top speed	km/h		241 (240)
BMW EfficientDynamics			
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function (with automatic transmission), Proactive Driving Assistant, BMW EfficientLightweight, 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 ECE			
Combined (WLTP)	l/100		7.4 – 7.1 (7.3 – 6.9)
Combined (NEDC)	l/100		– (–)
CO ₂ (WLTP)	g/km		166 – 159 (164 – 157)
CO ₂ (NEDC)	g/km		– (–)
Emission rating			Euro 6d

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

¹⁾ Oil change

The fuel consumption, CO₂ 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 CO₂ 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.

Further information on official fuel consumption figures and specific CO₂ emission values of new passenger cars is included in the following guideline: 'Leitfaden über den Kraftstoffverbrauch, die CO₂-Emissionen und den Stromverbrauch neuer Personenkraftwagen' (Guide to the fuel economy, CO₂ 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>.

BMW Z4. Z4 M40i.

BMW Z4 M40i		
Body		
No of doors/seats		2 / 2
Length/width/height (unladen)	mm	4324 / 1864 / 1304
Wheelbase	mm	2470
Track, front/rear	mm	1594 / 1589
Ground clearance	mm	114
Turning circle	m	11.0
Fuel tank capacity	approx. l	52
Engine oil ¹⁾	l	6.5
Weight, unladen, to DIN/EU	kg	1565 / 1640
Max load to DIN	kg	295
Max permissible weight	kg	1860
Max axle load, front/rear	kg	880 / 995
Max trailer load		
braked (12%)/unbraked	kg	- / -
Max roofload/max towbar		
download	kg	- / -
Luggage comp capacity	l	281
Air resistance	c _d x A	0.31 x 2.07
Power Unit		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology	BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve timing, Double-VANOS variable camshaft timing	
Effective capacity	cc	2998
Stroke/bore	mm	94.6 / 82.0
Compression ratio	:1	11.0
Fuel		min. RON 91
Max output	kW/hp	250 / 340
at	rpm	5000 – 6500
Max torque	Nm	500
at	rpm	1600 – 4500
Electrical System		
Battery/installation	Ah/-	92 / luggage compartment
Driving Dynamics and Safety		
Suspension, front	Double-joint spring strut axle in lightweight aluminium-steel construction, hydraulically damped torque strut bearing	
Suspension, rear	Five-link axle in lightweight aluminium-steel construction	
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 and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, Adaptive suspension, M Sport differential	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger with combined head airbags, three-point inertia-reel seatbelts with belt tensioner and belt force limiter, crash sensors, rollover protection system, tyre pressure indicator	
Steering	Electric Power Steering (EPS) with Servotronic function, variable sport steering	
Steering ratio, overall	:1	15.1
Tyres, front/rear	255/40 ZR18 95Y / 275/40 ZR18 99Y	
Rims, front/rear	9J x 18 light-alloy / 10J x 18 light-alloy	

BMW Z4 M40i			
Transmission			
Type of transmission		Eight-speed Steptronic transmission	
Gear ratios	I	:1	5.250
	II	:1	3.360
	III	:1	2.172
	IV	:1	1.720
	V	:1	1.316
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.712
Final drive		:1	3.154
Performance			
Power-to-weight ratio (DIN)	kg/kW		6.3
Output per litre	kW/l		83.4
Acceleration 0–100 km/h	s		4.5
Top speed	km/h		250
BMW EfficientDynamics			
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Shift Indicator, ECO PRO mode with coasting function, Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, differential with optimised warm-up behaviour	
Fuel Consumption ECE			
Combined (WLTP)	l/100		8.1 – 7.9
Combined (NEDC)	l/100		–
CO ₂ (WLTP)	g/km		184 – 179
CO ₂ (NEDC)	g/km		–
Emission rating			Euro 6d

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