

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	1609 / 1616
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	1420 / 1495 (1430 / 1505)
Max load to DIN	kg	305 (310)
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	$C_d \times A$	0.29 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		225/50 R17 94W / 255/45 R17 98W
Rims, front/rear		7.5J x 17 light-alloy / 8.5J x 17 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		9.8 (9.9)
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			
Urban (NEDC)	l/100 km		9.1 (7.2)
Extra-urban (NEDC)	l/100 km		5.6 (5.2)
Combined (NEDC)	l/100 km		6.9 (6.0)
Combined (WLTP)	l/100 km		7.2 – 7.1 (7.2 – 7.1)
CO ₂ (NEDC)	g/km		158 (136)
CO ₂ (WLTP)	g/km		165 – 161 (165 – 160)
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

Fuel consumption, CO₂ emission figures, power consumption and range were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. They refer to vehicles on the automotive market in Germany. With regard to ranges, the NEDC figures take into account differences in the selected wheel and tyre size, while the WLTP figures take into account the effects of any optional equipment.

All figures are already calculated on the basis of the new WLTP test cycle. NEDC values listed have been calculated back to the NEDC measurement procedure where applicable. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO₂ emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at www.bmw.com/wltp.

BMW Z4. Z4 sDrive30i.

BMW Z4 sDrive30i		
Body		
No of doors/seats		2 / 2
Length/width/height (unladen)	mm	4324 / 1864 / 1304
Wheelbase	mm	2470
Track, front/rear	mm	1609 / 1616
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	1430 / 1505
Max load to DIN	kg	310
Max permissible weight	kg	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	$C_d \times A$	0.30 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	190 / 258
at	rpm	5000 – 6500
Max torque	Nm	400
at	rpm	1550 – 4400
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, 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		225/50 R17 94W / 255/45 R17 98W
Rims, front/rear		7.5J x 17 light-alloy / 8.5J x 17 light-alloy

BMW Z4 sDrive30i

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	7.5
Output per litre	kW/l	95.1
Acceleration 0–100 km/h	s	5.4
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, tyres with reduced rolling resistance
---	--

Fuel Consumption ECE

Urban (NEDC)	l/100 km	7.3
Extra-urban (NEDC)	l/100 km	5.3
Combined (NEDC)	l/100 km	6.0
Combined (WLTP)	l/100 km	7.3 – 7.1
CO ₂ (NEDC)	g/km	138
CO ₂ (WLTP)	g/km	166 – 161
Emission rating		Euro 6d

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

¹⁾ Oil change

Fuel consumption, CO₂ emission figures, power consumption and range were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. They refer to vehicles on the automotive market in Germany. With regard to ranges, the NEDC figures take into account differences in the selected wheel and tyre size, while the WLTP figures take into account the effects of any optional equipment.

All figures are already calculated on the basis of the new WLTP test cycle. NEDC values listed have been calculated back to the NEDC measurement procedure where applicable. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO₂ emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at www.bmw.com/wltp.

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	1555 / 1630
Max load to DIN	kg	305
Max permissible weight	kg	1860
Max axle load, front/rear	kg	865 / 995
Max trailer load		
braked (12%/unbraked)	kg	- / -
Max roofload/max towbar download	kg	- / -
Luggage comp capacity	l	281
Air resistance	$C_d \times A$	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/-	90 / 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		6.2
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			
Urban (NEDC)	l/100 km		9.2
Extra-urban (NEDC)	l/100 km		6.0
Combined (NEDC)	l/100 km		7.2
Combined (WLTP)	l/100 km		8.0 – 7.9
CO ₂ (NEDC)	g/km		164
CO ₂ (WLTP)	g/km		182 – 181
Emission rating			Euro 6d

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

¹⁾ Oil change

Fuel consumption, CO₂ emission figures, power consumption and range were measured using the methods required according to Regulation VO (EC) 2007/715 as amended. They refer to vehicles on the automotive market in Germany. With regard to ranges, the NEDC figures take into account differences in the selected wheel and tyre size, while the WLTP figures take into account the effects of any optional equipment.

All figures are already calculated on the basis of the new WLTP test cycle. NEDC values listed have been calculated back to the NEDC measurement procedure where applicable. WLTP values are used as a basis for the assessment of taxes and other vehicle-related levies that are (also) based on CO₂ emissions and, where applicable, for the purposes of vehicle-specific subsidies. Further information on the WLTP and NEDC measurement procedures is also available at www.bmw.com/wltp.