

Specifications.

BMW X7.

X7 xDrive40i.



BMW X7 xDrive40i		
Body		
No of doors/seats		5 / 7 (6) ¹⁾
Length/width/height (unladen)	mm	5151 / 2000 / 1805
Wheelbase	mm	3105
Track, front/rear	mm	1684 / 1705
Turning circle	m	13.0
Fuel tank capacity	approx. l	83
Engine oil ²⁾	l	6.5
Weight, unladen, to DIN/EU	kg	2360 / 2435
Max load to DIN	kg	835
Max permissible weight	kg	3195
Max axle load, front/rear	kg	1380 / 1920
Max trailer load, braked (12%/unbraked)	kg	3500 / 750
Max roofload/max towbar download	kg	100 / 140
Luggage comp capacity	l	326 – 2120
Air resistance	c _d x A	0.33 x 3.00
Power Unit		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Direct Injection, VALVETRONIC fully variable valve control, 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	245 / 333
at	rpm	5500 – 6250
Max torque	Nm	450
at	rpm	1600 – 4800
48V mild hybrid technology output	kW/hp	8 / 11
Electrical System		
12V battery/installation	Ah/-	90 / luggage compartment
48V battery/installation	Ah/-	11 / engine compartment
Driving Dynamics and Safety		
Suspension, front		Double-wishbone axle in aluminium construction, air suspension with automatic self-levelling
Suspension, rear		Five-link axle in lightweight steel construction, air suspension with automatic self-levelling
Brakes, front		Single-piston fixed-calliper disc brakes, vented
Brakes, rear		Single-piston floating-calliper disc brakes, vented
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, DSC networked with xDrive all-wheel-drive system, ADB-X (Active Differential Brake), HDC (Hill Descent Control), Adaptive suspension; optional: active roll stabilisation
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 stopper, belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS); optional: Integral Active Steering
Steering ratio, overall	:1	18.7
Tyres, front/rear		275/50 R20 113W XL
Rims, front/rear		8.5J x 20 light-alloy

BMW X7 xDrive40i

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	3.636

Performance

Power-to-weight ratio (DIN)	kg/kW	9.6
Output per litre	kW/l	81.7
Acceleration 0–100 km/h	s	6.3
Top speed	km/h	243

Off-road characteristics

Angle of approach/departure	°	25,0 / 22,2
Breakover angle	°	19.8
Ground clearance when unladen	mm	221
Fording depth (at 7 km/h)	mm	500

BMW EfficientDynamics

BMW EfficientDynamics standard features	Mild hybrid technology with 48V starter-generator, Brake Energy Regeneration with recuperation display, Auto Start Stop function, ECO PRO and COMFORT mode with coasting function, Proactive Driving Assistant, Optimum Shift Indicator, Electric Power Steering, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency-optimised all-wheel drive, differential with optimised warm-up behaviour, tyres with reduced rolling resistance
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Fuel Consumption ECE

Urban (NEDC)	l/100 km	10.5 – 10.0
Extra-urban (NEDC)	l/100 km	7.5 – 7.3
Combined (NEDC)	l/100 km	8.6 – 8.3
Combined (WLTP)	l/100 km	10.8 – 10.1
CO ₂ (NEDC)	g/km	197 – 190
CO ₂ (WLTP)	g/km	247 – 231
Emission rating		Euro 6d

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

¹⁾ With optional individual seats in the second row

²⁾ 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 X7. X7 M50i.

BMW X7 M50i		
Body		
No of doors/seats		5 / 7 (6) ¹⁾
Length/width/height (unladen)	mm	5151 / 2000 / 1805
Wheelbase	mm	3105
Track, front/rear	mm	1682 / 1703
Turning circle	m	13.0
Fuel tank capacity	approx. l	83
Engine oil ²⁾	l	10.5
Weight, unladen, to DIN/EU	kg	2490 / 2565
Max load to DIN	kg	805
Max permissible weight	kg	3295
Max axle load, front/rear	kg	1460 / 1930
Max trailer load, braked (12%/unbraked)	kg	3500 / 750
Max roofload/max towbar download	kg	100 / 140
Luggage comp capacity	l	326 – 2120
Air resistance	c _d x A	0.34 x 3.00
Power Unit		
Config/No of cyls/valves		V / 8 / 4
Engine technology		BMW TwinPower Turbo technology: two TwinScroll turbochargers, High Precision Direct Injection, VALVETRONIC fully variable valve control, Double-VANOS variable camshaft timing
Effective capacity	cc	4395
Stroke/bore	mm	88.3 / 89.0
Compression ratio	:1	10.5
Fuel		Min. RON 91
Max output	kW/hp	390 / 530
at	rpm	5500 – 6000
Max torque	Nm	750
at	rpm	1800 – 4600
Electrical System		
Battery/installation	Ah/-	80 / luggage compartment
Driving Dynamics and Safety		
Suspension, front		Double-wishbone axle in aluminium construction, air suspension with automatic self-levelling
Suspension, rear		Five-link axle in lightweight steel construction, 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 DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant, DSC networked with xDrive all-wheel-drive system, ADB-X (Active Differential Brake), HDC (Hill Descent Control), Adaptive suspension, M Sport differential; optional: active roll stabilisation
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 stopper, belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS); optional: Integral Active Steering
Steering ratio, overall	:1	18.7
Tyres, front/rear		285/45 R21 113Y XL
Rims, front/rear		9.5J x 21 light-alloy

BMW X7 M50i

Transmission

Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.500
	II	:1	3.520
	III	:1	2.200
	IV	:1	1.720
	V	:1	1.317
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.993
Final drive		:1	3.385

Performance

Power-to-weight ratio (DIN)	kg/kW	6.4
Output per litre	kW/l	88.7
Acceleration 0–100 km/h	s	4.7
Top speed	km/h	250

Off-road characteristics

Angle of approach/departure	°	25,0 / 22,2
Breakover angle	°	19.8
Ground clearance when unladen	mm	221
Fording depth (at 7 km/h)	mm	500

BMW EfficientDynamics

BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering (EPS), Auto Start Stop function, Optimum Shift Indicator, ECO PRO and COMFORT mode with coasting function, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency-optimised all-wheel drive, differential with optimised warm-up behaviour, tyres with reduced rolling resistance
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Fuel Consumption ECE

Urban (NEDC)	l/100 km	15.3 – 14.8
Extra-urban (NEDC)	l/100 km	8.9 – 8.8
Combined (NEDC)	l/100 km	11.2 – 11.0
Combined (WLTP)	l/100 km	12.8 – 12.3
CO ₂ (NEDC)	g/km	258 – 252
CO ₂ (WLTP)	g/km	292 – 280
Emission rating		Euro 6d

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

¹⁾ With optional individual seats in the second row

²⁾ 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 X7. X7 xDrive40d.

BMW X7 xDrive40d		
Body		
No of doors/seats		5 / 7 (6) ¹⁾
Length/width/height (unladen)	mm	5151 / 2000 / 1805
Wheelbase	mm	3105
Track, front/rear	mm	1684 / 1705
Turning circle	m	13.0
Fuel tank capacity	approx. l	80
Engine oil ²⁾	l	7.0
Weight, unladen, to DIN/EU	kg	2470 / 2545
Max load to DIN	kg	825
Max permissible weight	kg	3295
Max axle load, front/rear	kg	1415 / 1960
Max trailer load, braked (12%/unbraked)	kg	3500 / 750
Max roofload/max towbar download	kg	100 / 140
Luggage comp capacity	l	326 – 2120
Air resistance	c _d x A	0.33 x 3.00
Power Unit		
Config/No of cyls/valves		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: multi-stage turbocharging, high- and low-pressure turbocharger with variable inlet geometry, common-rail direct injection with piezo injectors (max. injection pressure: 2700 bar)
Effective capacity	cc	2993
Stroke/bore	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel		Diesel
Max output	kW/hp	250 / 340
at	rpm	4400
Max torque	Nm	700
at	rpm	1750 – 2250
48V mild hybrid technology output	kW/hp	8 / 11
Electrical System		
12V battery/installation	Ah/-	90 / luggage compartment
48V battery/installation	Ah/-	11 / engine compartment
Driving Dynamics and Safety		
Suspension, front		Double-wishbone axle in aluminium construction, air suspension with automatic self-levelling
Suspension, rear		Five-link axle in lightweight steel construction, air suspension with automatic self-levelling
Brakes, front		Single-piston fixed-calliper disc brakes, vented
Brakes, rear		Single-piston floating-calliper disc brakes, vented
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, DSC networked with xDrive all-wheel-drive system, ADB-X (Active Differential Brake), HDC (Hill Descent Control), Adaptive suspension; optional: active roll stabilisation
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 stopper, belt latch tensioner and belt force limiter in the front, crash sensors, tyre pressure indicator
Steering		Electric Power Steering (EPS); optional: Integral Active Steering
Steering ratio, overall	:1	18.7
Tyres, front/rear		275/50 R20 113W XL
Rims, front/rear		8.5J x 20 light-alloy

BMW X7 xDrive40d

Transmission

Type of transmission	Eight-speed Steptronic transmission		
Gear ratios	I	:1	5.500
	II	:1	3.520
	III	:1	2.200
	IV	:1	1.720
	V	:1	1.317
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.993
Final drive		:1	3.154

Performance

Power-to-weight ratio (DIN)	kg/kW	9.9
Output per litre	kW/l	83.5
Acceleration 0–100 km/h	s	6.1
Top speed	km/h	245

Off-road characteristics

Angle of approach/departure	°	25,0 / 22,2
Breakover angle	°	19.8
Ground clearance when unladen	mm	221
Fording depth (at 7 km/h)	mm	500

BMW EfficientDynamics

BMW EfficientDynamics standard features	Mild hybrid technology with 48V starter-generator, Brake Energy Regeneration with recuperation display, Auto Start Stop function, ECO PRO and COMFORT mode with coasting function, Proactive Driving Assistant, Optimum Shift Indicator, Electric Power Steering, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-regulated oil pump, efficiency-optimised all-wheel drive, differential with optimised warm-up behaviour, tyres with reduced rolling resistance, BMW Blue Performance technology with SCR catalytic converter
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Fuel Consumption ECE

Urban (NEDC)	l/100 km	7.8 – 7.5
Extra-urban (NEDC)	l/100 km	5.9 – 5.7
Combined (NEDC)	l/100 km	6.6 – 6.4
Combined (WLTP)	l/100 km	8.3 – 7.7
CO ₂ (NEDC)	g/km	173 – 167
CO ₂ (WLTP)	g/km	219 – 202
Emission rating		Euro 6d

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

¹⁾ With optional individual seats in the second row

²⁾ 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.

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