

12. Specifications.

BMW 740i, BMW 740Li.



		BMW 740i	BMW 740Li
Body			
No. of doors/seats		4 / 5	4 / 5
Length/width/height ¹⁾ (unladen)	mm	5098 / 1902 / 1478	5238 / 1902 / 1485
Wheelbase	mm	3070	3210
Track, front/rear	mm	1618 / 1646	1618 / 1646
Ground clearance	mm	135	135
Turning circle	m	12.3	12.8
Tank capacity	approx. ltr	78	78
Engine oil ²⁾	ltr	6.5	6.5
Weight, unladen, to DIN/EU	kg	1725 / 1800	1770 / 1845
Max. load to DIN	kg	675	675
Max. permissible weight	kg	2400	2445
Max. axle load, front/rear	kg	1135 / 1320	1155 / 1340
Max. trailer load, braked (12%)/unbraked	kg	2100 / 750	2100 / 750
Max. roof load/towbar download	kg	100 / 100	100 / 100
Luggage comp. capacity	ltr	515	515
Air resistance	c _d x A	0.24 x 2.41	0.24 x 2.42
Engine			
Config./No. of cyls./valves		In-line / 6 / 4	In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: TwinScroll turbocharger, High Precision Injection, VALVETRONIC fully variable valve control, Double-VANOS variable camshaft timing	
Effective capacity	cm ³	2998	2998
Stroke/bore	mm	94.6 / 82.0	94.6 / 82.0
Compression ratio	:1	11.0	11.0
Fuel		min RON 91	min RON 91
Output	kW/hp	240 / 326	240 / 326
at	rpm	5500 – 6500	5500 – 6500
Torque	Nm	450	450
at	rpm	1380 – 5000	1380 – 5000
Electrical System			
Battery/Installation	Ah/–	105 / luggage comp.	105 / luggage comp.
Alternator	A/W	180 / 2520	180 / 2520
Driving Dynamics and Safety			
Suspension, front		Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive, air suspension with automatic self-levelling	
Suspension, rear		Five-link axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation, 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 Dynamic Traction Control (DTC), Cornering Brake Control (CBC), Dynamic Brake Control (DBC), Dry Braking function, Fading Compensation, Start-Off Assistant, Dynamic Damper Control	
Safety equipment		Standard: airbags for driver and passenger, side airbags for driver and passenger, head airbags for 1st and 2nd seat row, three-point inertia-reel belts on all seats, integrated at the front with belt tightener and belt force limiter, crash sensors, tyre pressure indicator	
Steering		Electric Power Steering (EPS) with Servotronic function, optional: Integral Active Steering	
Steering ratio, overall	:1	16.9	16.9
Tyres, front/rear		225/60 R17 99Y	225/60 R17 99Y
Rims, front/rear		7.5J x 17 light alloy	7.5J x 17 light alloy

BMW 740i			BMW 740Li
Transmission			
Type of gearbox	8-speed Steptronic transmission		8-speed Steptronic transmission
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.314
	VI	:1	1.000
	VII	:1	0.822
	VIII	:1	0.640
	R	:1	3.456
Final drive		:1	3.077
Performance			
Power-to-weight ratio (DIN)	kg/kW	7.2	7.4
Output per litre	kW/ltr	80.1	80.1
Acceleration 0–100 km/h	s	5.5	5.6
in 5th gear 80–120 km/h	s	–	–
Top speed	km/h	250	250
BMW EfficientDynamics			
BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Gearshift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-controlled oil pump, disengageable climate compressor, differential with optimised warm-up behaviour, tyres with reduced rolling resistance		
Fuel consumption EU cycle³⁾			
With standard tyres			
Urban	ltr/100 km	9.1	9.1
Extra-urban	ltr/100 km	5.2	5.2
Combined	ltr/100 km	6.6	6.6
CO ₂	g/km	154	154
With rims 8J x 18 and tyres 245/50 R18, with rims 8.5J x 19 and tyres 245/45 R19 as well as winter tyres			
Urban	ltr/100 km	9.4	9.4
Extra-urban	ltr/100 km	5.3	5.3
Combined	ltr/100 km	6.8	6.8
CO ₂	g/km	159	159
With rims 8.5J x 19 front, 9.5J x 19 rear and tyres 245/45 R19 front, 275/40 R19 rear, With rims 8.5J x 20 front, 10J x 20 rear and tyres 245/40 R20 front, 275/35 R20 rear, With rims 8.5J x 21 front, 10J x 21 rear and tyres 245/35 R21 front, 275/30 R21 rear			
Urban	ltr/100 km	9.7	9.7
Extra-urban	ltr/100 km	5.5	5.5
Combined	ltr/100 km	7.0	7.0
CO ₂	g/km	164	164
Emission rating		EU6	EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)

¹⁾ Height with roof fin: 1612 millimetres

²⁾ Oil change

³⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format

BMW 750i xDrive, BMW 750Li xDrive.

		BMW 750i xDrive	BMW 750Li xDrive
Body			
No. of doors/seats		4 / 5	4 / 5
Length/width/height ¹⁾ (unladen)	mm	5098 / 1902 / 1478	5238 / 1902 / 1485
Wheelbase	mm	3070	3210
Track, front/rear	mm	1611 / 1640	1611 / 1640
Ground clearance	mm	135	135
Turning circle	m	12,5	12,9
Tank capacity	approx. ltr	78	78
Engine oil ²⁾	ltr	9.5	9.5
Weight, unladen, to DIN/EU	kg	1870 / 1945	1915 / 1990
Max. load to DIN	kg	705	700
Max. permissible weight	kg	2575	2615
Max. axle load, front/rear	kg	1270 / 1355	1285 / 1385
Max. trailer load, braked (12%)/unbraked	kg	2300 / 750	2300 / 750
Max. roof load/towbar download	kg	100 / 100	100 / 100
Luggage comp. capacity	ltr	515	515
Air resistance	C _d x A	0.27 x 2.41	0.27 x 2.42
Engine			
Config./No. of cyls./valves		V / 8 / 4	V / 8 / 4
Engine technology		BMW TwinPower Turbo technology: two TwinScroll turbochargers, High Precision Injection, VALVETRONIC fully variable valve control, Double-VANOS variable camshaft timing	
Effective capacity	cm ³	4395	4395
Stroke/bore	mm	88.3 / 89.0	88.3 / 89.0
Compression ratio	:1	10.5	10.5
Fuel		min RON 91	min RON 91
Output	kW/hp	330 / 450	330 / 450
at	rpm	5500 – 6000	5500 – 6000
Torque	Nm	650	650
at	rpm	1800 – 4500	1800 – 4500
Electrical System			
Battery/Installation	Ah/–	105 / luggage comp.	105 / luggage comp.
Alternator	A/W	250 / 3500	250 / 3500
Driving Dynamics and Safety			
Suspension, front		Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive, air suspension with automatic self-levelling	
Suspension, rear		Five-link axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation, 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 Dynamic Traction Control (DTC), Cornering Brake Control (CBC), Dynamic Brake Control (DBC), Dry Braking function, Fading Compensation, Start-Off Assistant, linked to xDrive all-wheel drive, Dynamic Damper Control	
Safety equipment		Standard: airbags for driver and passenger, side airbags for driver and passenger, head airbags for 1st and 2nd seat row, three-point inertia-reel belts on all seats, integrated at the front with belt tightener and belt force limiter, crash sensors, tyre pressure indicator	
Steering		Electric Power Steering (EPS) with Servotronic function, optional: Integral Active Steering	
Steering ratio, overall	:1	16.9	16.9
Tyres, front/rear		245/50 R18 100Y	245/50 R18 100Y
Rims, front/rear		8J x 18 light alloy	8J x 18 light alloy

BMW 750i xDrive			BMW 750Li xDrive	
Transmission				
Type of gearbox	8-speed Steptronic transmission		8-speed Steptronic transmission	
Gear ratios	I	:1	5.000	5.000
	II	:1	3.200	3.200
	III	:1	2.143	2.143
	IV	:1	1.720	1.720
	V	:1	1.313	1.313
	VI	:1	1.000	1.000
	VII	:1	0.823	0.823
	VIII	:1	0.640	0.640
	R	:1	3.478	3.478
Final drive		:1	2.813	2.813
Performance				
Power-to-weight ratio (DIN)	kg/kW		5.7	5.8
Output per litre	kW/ltr		75.1	75.1
Acceleration 0–100 km/h	s		4.4	4.5
in 5th gear 80–120 km/h	s		–	–
Top speed	km/h		250	250
BMW EfficientDynamics				
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Gearshift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-controlled oil pump, disengageable climate compressor, differential with optimised warm-up behaviour, efficiency- and weight-optimised all-wheel drive, tyres with reduced rolling resistance		
Fuel consumption EU cycle ³⁾				
With standard tyres				
Urban	ltr/100 km		11.4	11.6
Extra-urban	ltr/100 km		6.2	6.3
Combined	ltr/100 km		8.1	8.3
CO ₂	g/km		189	192
With rims 8.5J x 19 and tyres 245/45 R19 as well as winter tyres				
Urban	ltr/100 km		11.6	11.6
Extra-urban	ltr/100 km		6.2	6.4
Combined	ltr/100 km		8.2	8.3
CO ₂	g/km		191	193
With rims 8.5J x 19 front, 9.5J x 19 rear and tyres 245/45 R19 front, 275/40 R19 rear, With rims 8.5J x 20 front, 10J x 20 rear and tyres 245/40 R20 front, 275/35 R20 rear, With rims 8.5J x 21 front, 10J x 21 rear and tyres 245/35 R21 front, 275/30 R21 rear				
Urban	ltr/100 km		11.6	11.9
Extra-urban	ltr/100 km		6.4	6.5
Combined	ltr/100 km		8.3	8.5
CO ₂	g/km		194	197
Emission rating			EU6	EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)

¹⁾ Height with roof fin: 1612 millimetres

²⁾ Oil change

³⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format

BMW 730d, BMW 730Ld.

		BMW 730d	BMW 730Ld
Body			
No. of doors/seats		4 / 5	4 / 5
Length/width/height ¹⁾ (unladen)	mm	5098 / 1902 / 1478	5238 / 1902 / 1485
Wheelbase	mm	3070	3210
Track, front/rear	mm	1618 / 1646	1618 / 1646
Ground clearance	mm	135	135
Turning circle	m	12.3	12.8
Tank capacity	approx. ltr	78	78
Engine oil ²⁾	ltr	6.5	6.5
Weight, unladen, to DIN/EU	kg	1755 / 1830	1795 / 1870
Max. load to DIN	kg	695	695
Max. permissible weight	kg	2450	2490
Max. axle load, front/rear	kg	1175 / 1340	1195 / 1360
Max. trailer load, braked (12%)/unbraked	kg	2100 / 750	2100 / 750
Max. roof load/towbar download	kg	100 / 100	100 / 100
Luggage comp. capacity	ltr	515	515
Air resistance	c _d x A	0.24 x 2.41	0.24 x 2.42
Engine			
Config./No. of cyls./valves		in-line / 6 / 4	in-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: turbocharger with variable inlet geometry, common-rail direct injection with piezo injectors (max. injection pressure: 2500 bar)	
Effective capacity	cm ³	2993	2993
Stroke/bore	mm	90.0 / 84.0	90.0 / 84.0
Compression ratio	:1	16.5	16.5
Fuel		diesel	diesel
Output	kW/hp	195 / 265	195 / 265
at	rpm	4000	4000
Torque	Nm	620	620
at	rpm	2000 – 2500	2000 – 2500
Electrical System			
Battery/Installation	Ah/–	105 / luggage comp.	105 / luggage comp.
Alternator	A/W	180 / 2520	180 / 2520
Driving Dynamics and Safety			
Suspension, front		Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive, air suspension with automatic self-levelling	
Suspension, rear		Five-link axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation, 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 Dynamic Traction Control (DTC), Cornering Brake Control (CBC), Dynamic Brake Control (DBC), Dry Braking function, Fading Compensation, Start-Off Assistant, Dynamic Damper Control	
Safety equipment		Standard: airbags for driver and passenger, side airbags for driver and passenger, head airbags for 1st and 2nd seat row, three-point inertia-reel belts on all seats, integrated at the front with belt tightener and belt force limiter, crash sensors, tyre pressure indicator	
Steering		Electric Power Steering (EPS) with Servotronic function, optional: Integral Active Steering	
Steering ratio, overall	:1	16.9	16.9
Tyres, front/rear		225/60 R17 99Y	225/60 R17 99Y
Rims, front/rear		7.5J x 17 light alloy	7.5J x 17 light alloy

BMW 730d			BMW 730Ld
Transmission			
Type of gearbox	8-speed Steptronic transmission		8-speed Steptronic transmission
Gear ratios	I	:1	5.000
	II	:1	3.200
	III	:1	2.143
	IV	:1	1.720
	V	:1	1.313
	VI	:1	1.000
	VII	:1	0.823
	VIII	:1	0.640
	R	:1	3.478
Final drive		:1	2.563
Performance			
Power-to-weight ratio (DIN)	kg/kW	9.0	9.2
Output per litre	kW/ltr	65.2	65.2
Acceleration 0–100 km/h	s	6.1	6.2
in 5th gear 80–120 km/h	s	–	–
Top speed	km/h	250	250
BMW EfficientDynamics			
BMW EfficientDynamics standard features	Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Gearshift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-controlled oil pump, disengageable climate compressor, differential with optimised warm-up behaviour, tyres with reduced rolling resistance		
Fuel consumption EU cycle ³⁾			
With standard tyres			
Urban	ltr/100 km	5.3	5.5
Extra-urban	ltr/100 km	4.0	4.1
Combined	ltr/100 km	4.5	4.6
CO ₂	g/km	119	122
With rims 8J x 18 und Reifen 245/50 R18, with rims 8.5J x 19 and tyres 245/45 R19 as well as winter tyres			
Urban	ltr/100 km	5.5	5.7
Extra-urban	ltr/100 km	4.2	4.3
Combined	ltr/100 km	4.7	4.8
CO ₂	g/km	124	127
With rims 8.5J x 19 front, 9.5J x 19 rear and tyres 245/45 R19 front, 275/40 R19 rear, With rims 8.5J x 20 front, 10J x 20 rear and tyres 245/40 R20 front, 275/35 R20 rear, With rims 8.5J x 21 front, 10J x 21 rear and tyres 245/35 R21 front, 275/30 R21 rear			
Urban	ltr/100 km	5.8	5.9
Extra-urban	ltr/100 km	4.4	4.4
Combined	ltr/100 km	4.9	5.0
CO ₂	g/km	129	132
Emission rating		EU6	EU6

Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)

¹⁾ Height with roof fin: 1612 millimetres

²⁾ Oil change

³⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format

BMW 730d xDrive, BMW 730Ld xDrive.

		BMW 730d xDrive	BMW 730Ld xDrive
Body			
No. of doors/seats		4 / 5	4 / 5
Length/width/height ¹⁾ (unladen)	mm	5098 / 1902 / 1478	5238 / 1902 / 1485
Wheelbase	mm	3070	3210
Track, front/rear	mm	1618 / 1646	1618 / 1646
Ground clearance	mm	135	135
Turning circle	m	12.5	12.9
Tank capacity	approx. ltr	78	78
Engine oil ²⁾	ltr	6.5	6.5
Weight, unladen, to DIN/EU	kg	1825 / 1900	1870 / 1945
Max. load to DIN	kg	715	710
Max. permissible weight	kg	2540	2580
Max. axle load, front/rear	kg	1220 / 1370	1240 / 1395
Max. trailer load, braked (12%/unbraked)	kg	2100 / 750	2100 / 750
Max. roof load/towbar download	kg	100 / 100	100 / 100
Luggage comp. capacity	ltr	515	515
Air resistance	C _d x A	0.25 x 2.41	0.25 x 2.42
Engine			
Config./No. of cyls./valves		in-line / 6 / 4	in-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology: turbocharger with variable inlet geometry, common-rail direct injection with piezo injectors (max. injection pressure: 2500 bar)	
Effective capacity	cm ³	2993	2993
Stroke/bore	mm	90.0 / 84.0	90.0 / 84.0
Compression ratio	:1	16.5	16.5
Fuel		diesel	diesel
Output	kW/hp	195 / 265	195 / 265
at	rpm	4000	4000
Torque	Nm	620	620
at	rpm	2000 – 2500	2000 – 2500
Electrical System			
Battery/Installation	Ah/–	105 / luggage comp.	105 / luggage comp.
Alternator	A/W	180 / 2520	180 / 2520
Driving Dynamics and Safety			
Suspension, front		Double track control arm axle with separate lower track arm level, aluminium, small steering roll radius, anti-dive, air suspension with automatic self-levelling	
Suspension, rear		Five-link axle, aluminium, with steering function, anti-squat and anti-dive, double acoustic separation, 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 Dynamic Traction Control (DTC), Cornering Brake Control (CBC), Dynamic Brake Control (DBC), Dry Braking function, Fading Compensation, Start-Off Assistant, linked to xDrive all-wheel drive, Dynamic Damper Control	
Safety equipment		Standard: airbags for driver and passenger, side airbags for driver and passenger, head airbags for 1st and 2nd seat row, three-point inertia-reel belts on all seats, integrated at the front with belt tightener and belt force limiter, crash sensors, tyre pressure indicator	
Steering		Electric Power Steering (EPS) with Servotronic function, optional: Integral Active Steering	
Steering ratio, overall	:1	16.9	16.9
Tyres, front/rear		225/60 R17 99Y	225/60 R17 99Y
Rims, front/rear		7.5J x 17 light alloy	7.5J x 17 light alloy

BMW 730d xDrive			BMW 730Ld xDrive	
Transmission				
Type of gearbox		8-speed Steptronic transmission		8-speed Steptronic transmission
Gear ratios	I	:1	5.000	5.000
	II	:1	3.200	3.200
	III	:1	2.143	2.143
	IV	:1	1.720	1.720
	V	:1	1.313	1.313
	VI	:1	1.000	1.000
	VII	:1	0.823	0.823
	VIII	:1	0.640	0.640
	R	:1	3.478	3.478
Final drive		:1	2.563	2.563
Performance				
Power-to-weight ratio (DIN)		kg/kW	9.4	9.6
Output per litre		kW/ltr	65.2	65.2
Acceleration 0–100 km/h		s	5.8	5.9
in 5th gear 80–120 km/h		s	–	–
Top speed		km/h	250	250
BMW EfficientDynamics				
BMW EfficientDynamics standard features		Brake Energy Regeneration with recuperation display, Electric Power Steering, Auto Start Stop function, Optimum Gearshift Indicator, ECO PRO mode with coasting function and Proactive Driving Assistant, BMW EfficientLightweight, optimised aerodynamic attributes, active air flap control, on-demand operation of ancillary units, map-controlled oil pump, disengageable climate compressor, differential with optimised warm-up behaviour, efficiency- and weight-optimised all-wheel drive, tyres with reduced rolling resistance		
Fuel consumption EU cycle ³⁾				
With standard tyres				
Urban	ltr/100 km		5.7	5.7
Extra-urban	ltr/100 km		4.3	4.3
Combined	ltr/100 km		4.8	4.8
CO ₂	g/km		127	127
With rims 8J x 18 and tyres 245/50 R18, with rims 8.5J x 19 and tyres 245/45 R19 as well as winter tyres				
Fuel consumption EU cycle ³⁾			5.9	5.9
With standard tyres			4.4	4.4
Urban	ltr/100 km		5.0	5.0
CO ₂	g/km		132	132
With rims 8.5J x 19 front, 9.5J x 19 rear and tyres 245/45 R19 front, 275/40 R19 rear,				
With rims 8.5J x 20 front, 10J x 20 rear and tyres 245/40 R20 front, 275/35 R20 rear,				
With rims 8.5J x 21 front, 10J x 21 rear and tyres 245/35 R21 front, 275/30 R21 rear				
Urban	ltr/100 km		6.1	6.1
Extra-urban	ltr/100 km		4.6	4.6
Combined	ltr/100 km		5.2	5.2
CO ₂	g/km		137	137
Emission rating			EU6	EU6

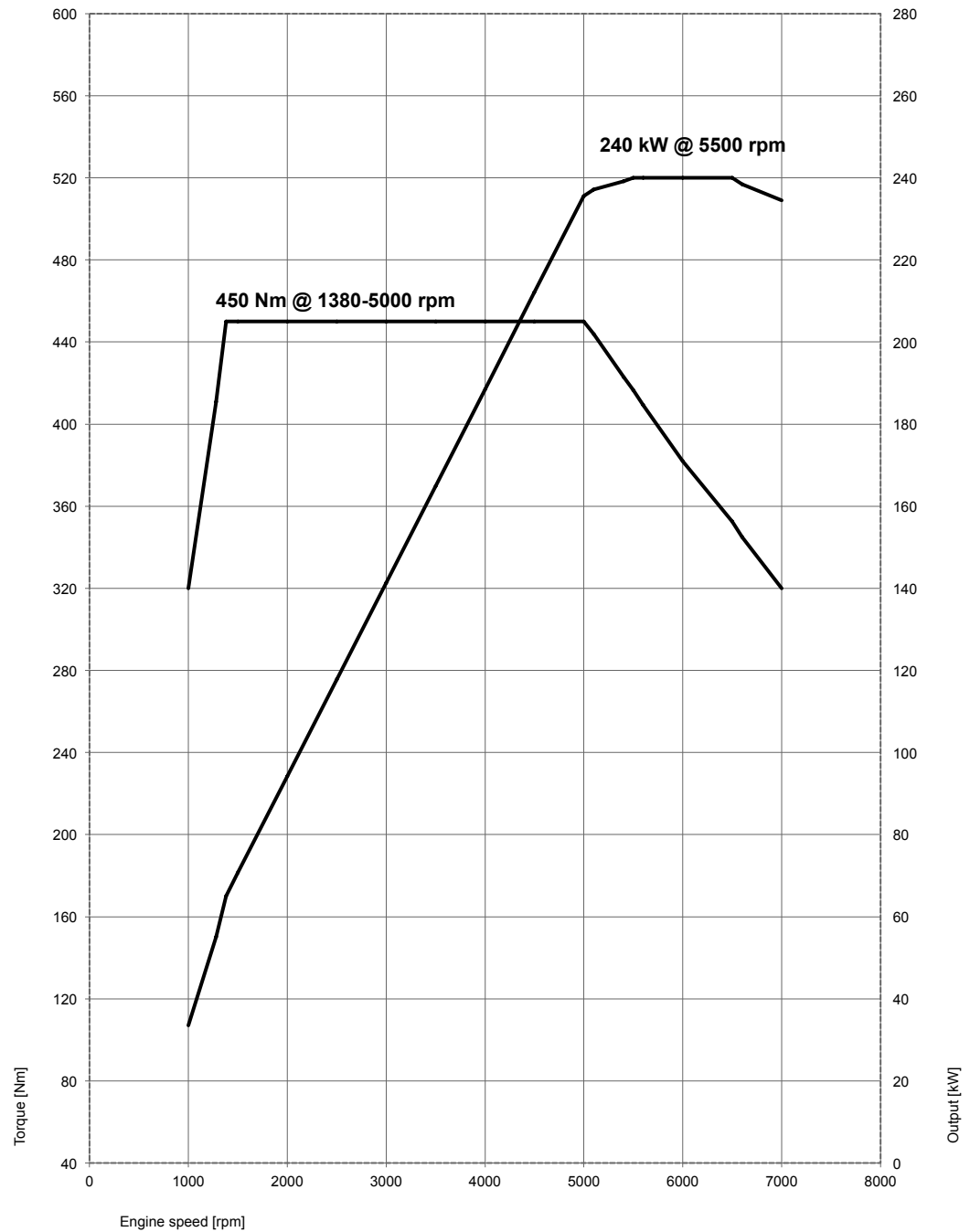
Specifications apply to ACEA markets; data relevant to homologation applicable in part only to Germany (weight)

¹⁾ Height with roof fin: 1612 millimetres

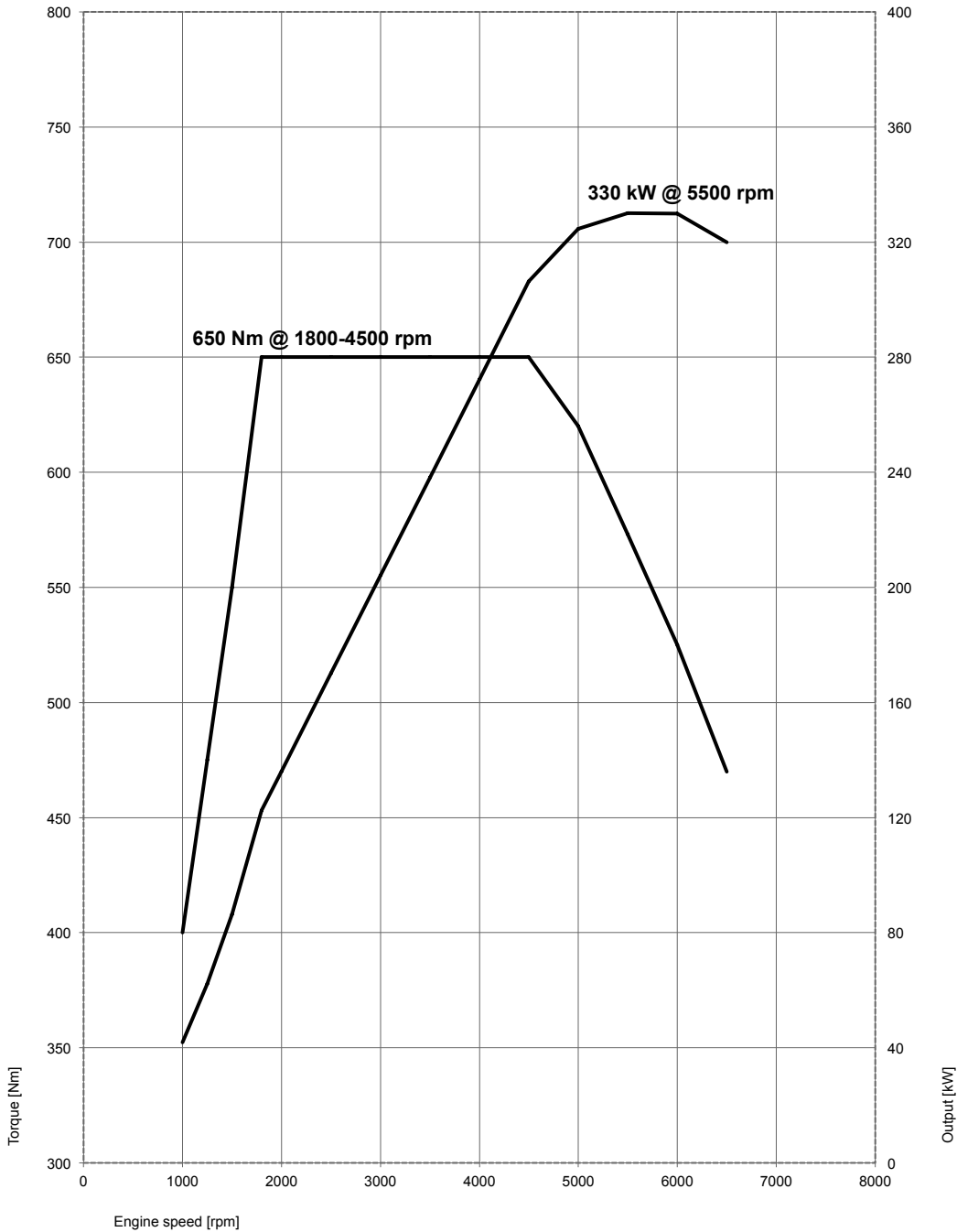
²⁾ Oil change

³⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format

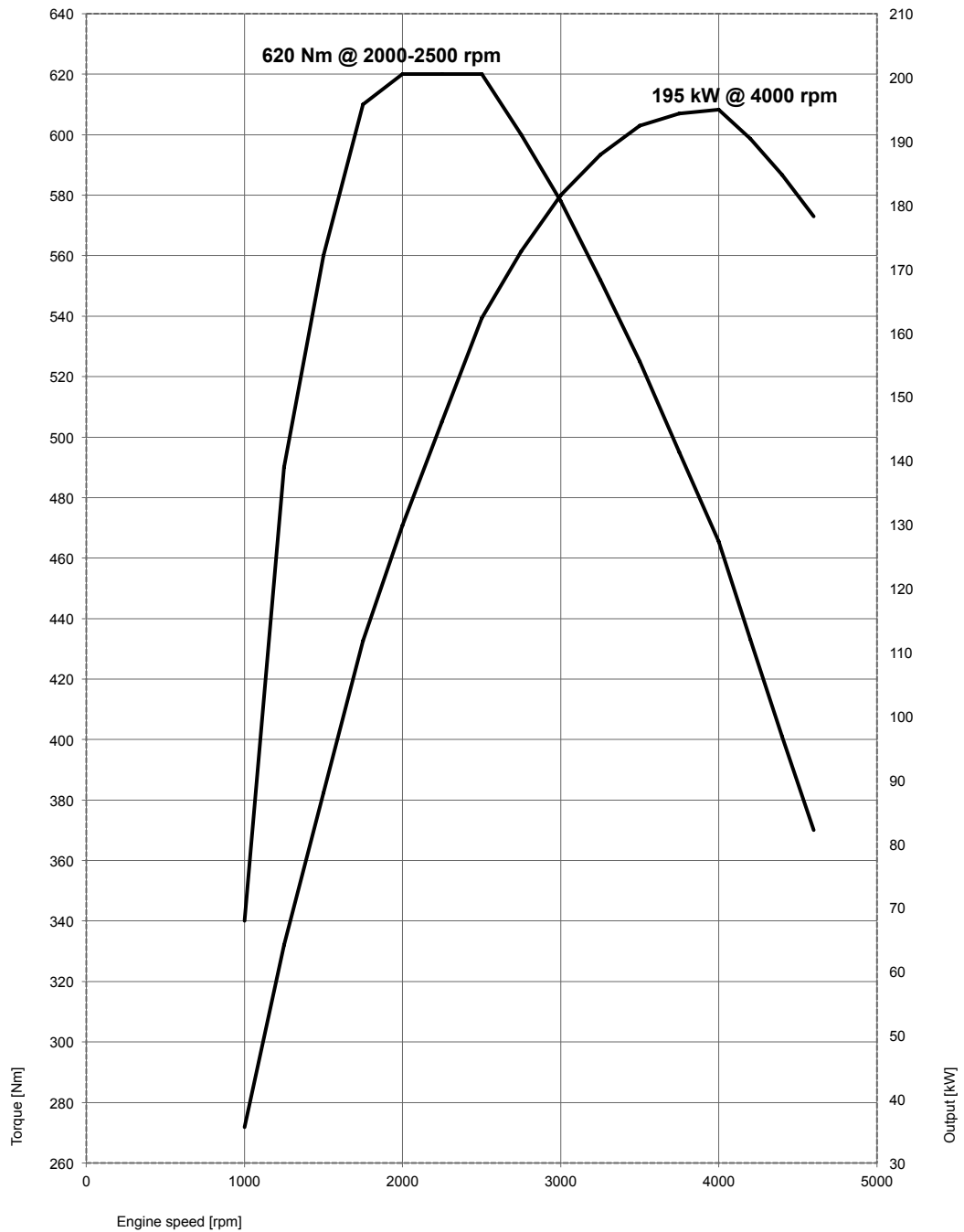
13. Output and torque diagrams. BMW 740i, BMW 740Li.



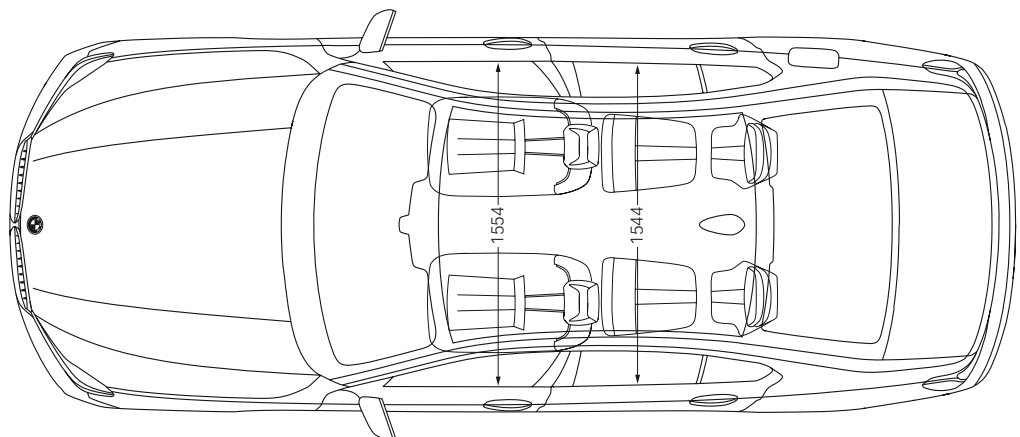
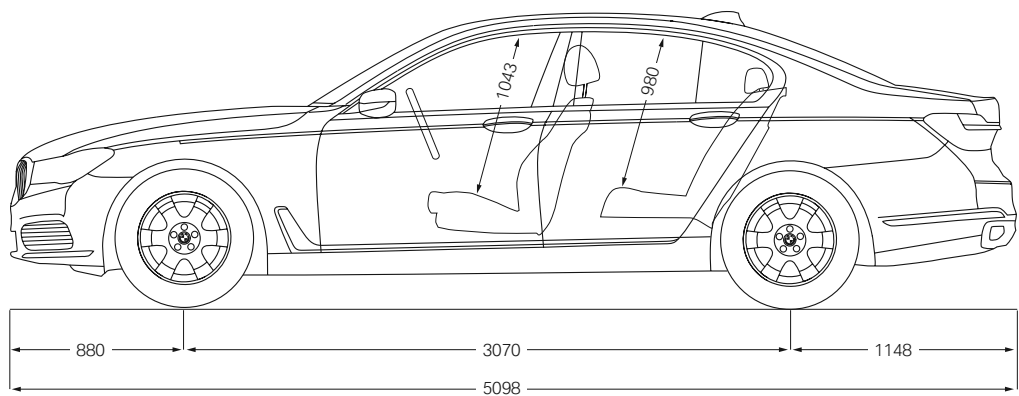
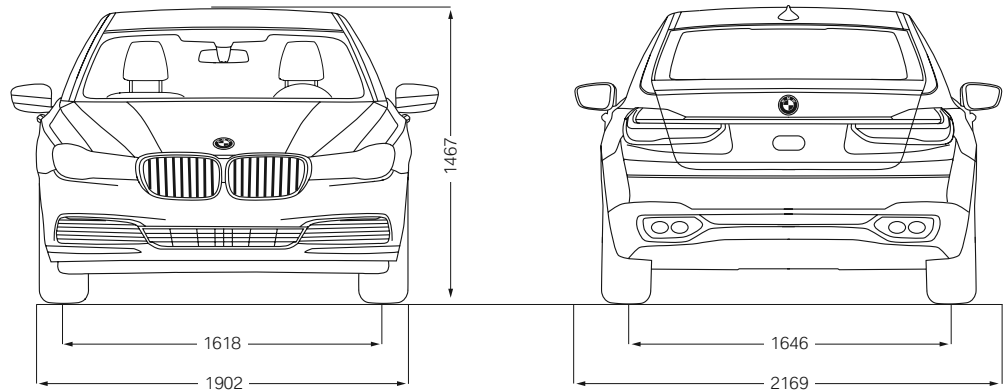
BMW 750i xDrive, BMW 750Li xDrive.



BMW 730d, BMW 730Ld, BMW 730d xDrive, BMW 730Ld xDrive.



14. Exterior and interior dimensions. The new BMW 7 Series.



The new BMW 7 Series long-wheelbase version.

