

7. Technical specifications.

The new BMW 3 Series Gran Turismo.

318d, 320d.



		BMW 318d Gran Turismo	BMW 320d Gran Turismo
Body			
Noofdoors/seats		4 / 5	4 / 5
Length/width/height (unladen)	mm	4824 / 1828 / 1508	4824 / 1828 / 1508
Wheelbase	mm	2920	2920
Track, front/rear	mm	1541 / 1586	1541 / 1586
Groundclearance	mm	165	165
Turningcircle	m	11,8	11,8
Fuel Tank capacity	apltr	57	57
Coolingsysteminclheater	ltr	7,0	7,0
Engine oil ¹⁾	ltr	5,2	5,2
Weight, unladen, to DIN/EU	kg	1540 / 1615 (1560/1635)	1565 / 1640 (1575/1650)
Max loadto DIN	kg	570	570
Max permissible	kg	2110 (2130)	2135 (2145)
Max axle load, front/rear	kg	940 / 1240	950 / 1245
Max trailer load (12%), braked/unbraked	kg	1600 / 745	1600 / 745
Max roofload/max towbardownl	kg	75 / 75	75 / 75
Luggagecompcapacity	ltr	520 / 1600	520 / 1600
Air drag	Cd x A	0,28 x 2,31	0,28 x 2,31
Power Unit			
Config/No of cyls/valves		In-line/ 4 / 4	In-line / 4 / 4
Engine technology		BMW TwinPower Turbo technology with variable-geometry turbocharger, Common Rail direct injection with piezo injectors (max. injection pressure: 1800 bar)	
Capacity, effective	cc	1995	1995
Stroke / bore	mm	90,0 / 84,0	90,0 / 84,0
Compression ratio	:1	16,5	16,5
Fuel		Diesel	Diesel
Max output	kW/hp	105 / 143	135 / 184
at	rpm	4000	4000
Max torque	Nm/lb-ft	320	380
at	rpm	1750 – 2500	1750 – 2750
Electrical System			
Battery / installation	Ah/-	90 / Luggagecompartment	90 / Luggagecompartment
Alternator	AW	175 / 2450	175 / 2450
Driving Dynamics and Safety			
Suspension, front		Aluminium double-joint spring strut axle with displaced camber, small positive steering roll radius, transverse force compensation, anti-dive	
Suspension, rear		Five-link axle in lightweight construction	
Brakes, front		Single-piston floating-calliper disc brakes / vented	
Brakes, rear		Single-piston fixed-calliper disc brakes / vented	
Drivingstabilitysystems		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	
Safetyequipment		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 latch tensioner and belt force limiter at the front, crash-activated head restraints at the front, crash sensors, Tyre Defect Indicator	
Steering		Electric Power Steering (EPS), optional: Servotronic Function, Variable Sport Steering).	
Steering transmission, overall	:1	15,3	15,3
Tyres, front/rear		225/55 R17 97V	225/55 R17 97V
Rims, front/rear		8,0J x 17 LightAlloy	8,0J x 17 Light Alloy

		BMW 318d Gran Turismo	BMW 320d Gran Turismo	
BMW ConnectedDrive				
Comfort	Optional: BMW Assist incl. Enquiry Service, remote-control functions and V-Info+ (Traffic Info plus), RTTI, BMW TeleServices, mobile device integration			
Infotainment	Optional: internet access, BMW Online incl. Park Info, National Info, Google Local Search, News, Realtime Weather, BMW Routes, Office functions, Bluetooth Audio Streaming and Online Update Music Tracks, Apps			
Safety	Optional: Adaptive Headlights with turning lights, variable light distribution and adaptive headlight range adjustment, high beam assistance, park distance control, rear view camera, Surround View incl. Side View and Top View, BMW Head-Up Display, cruise control with brake function, Parking Assistant, Lane Change Warning, Lane Departure Warning with Collision Warning, speed limit and no passing information, Active Protection, extended emergency call			
Transmission				
Type of transmission	Six-speed manual (optional: eight-speed-automatic)			
Gear ratios	I	:1	4,323 (4,714)	4,110 (4,171)
	II	:1	2,459 (3,143)	2,315 (3,143)
	III	:1	1,659 (2,106)	1,542 (2,106)
	IV	:1	1,230 (1,667)	1,179 (1,667)
	V	:1	1,000 (1,285)	1,000 (1,285)
	VI	:1	0,849 (1,000)	0,846 (1,000)
	VII	:1	- (0,839)	----- (0,839)
	VIII	:1	- (0,667)	----- (0,667)
	Reverse	:1	3,938 (3,295)	3,727 (3,295)
Final drive		:1	3,231 (3,154)	3,231 (3,077)
Performance				
Power-to-weight ratio	kg/kW		11,4 (11,6)	7,3 (7,3)
Output per litre	kW/l		67,6	75,5
Acceleration 0–100 km/h	sec		7,9 (7,9)	5,7 (5,4)
Standing-start km	sec		28,4 (28,7)	24,7 (24,8)
In 4th/5th gear 80–120 km/h	sec		8,1 / 9,8 (-)	5,8 / 6,5 (-)
Top speed	km/h		230 (229)	250 (250)
BMW EfficientDynamics				
BMW EfficientDynamics standard features	Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, Gear Shift Indicator (Manual Transmission), ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, map-regulated oil pump, detachable a/c compressor (BMW 318d Manual Transmission), differential with optimized-warm-up behaviour, tyres with reduced rolling resistance			
Fuel Consumption in EU Cycle Standard Wheels				
Urban	ltr/100		5,5 (5,6)	5,8 (5,9)
Extra-urban	ltr/100		4,0 (4,4)	4,4 (4,4)
Combined	ltr/100		4,5 (4,8)	4,9 (4,9)
CO ₂	g/km		119 (127)	129 (129)
Emission rating			EU5	EU6

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

¹⁾Oil change

The new BMW 3 Series Gran Turismo. 320i, 328i, 335i.

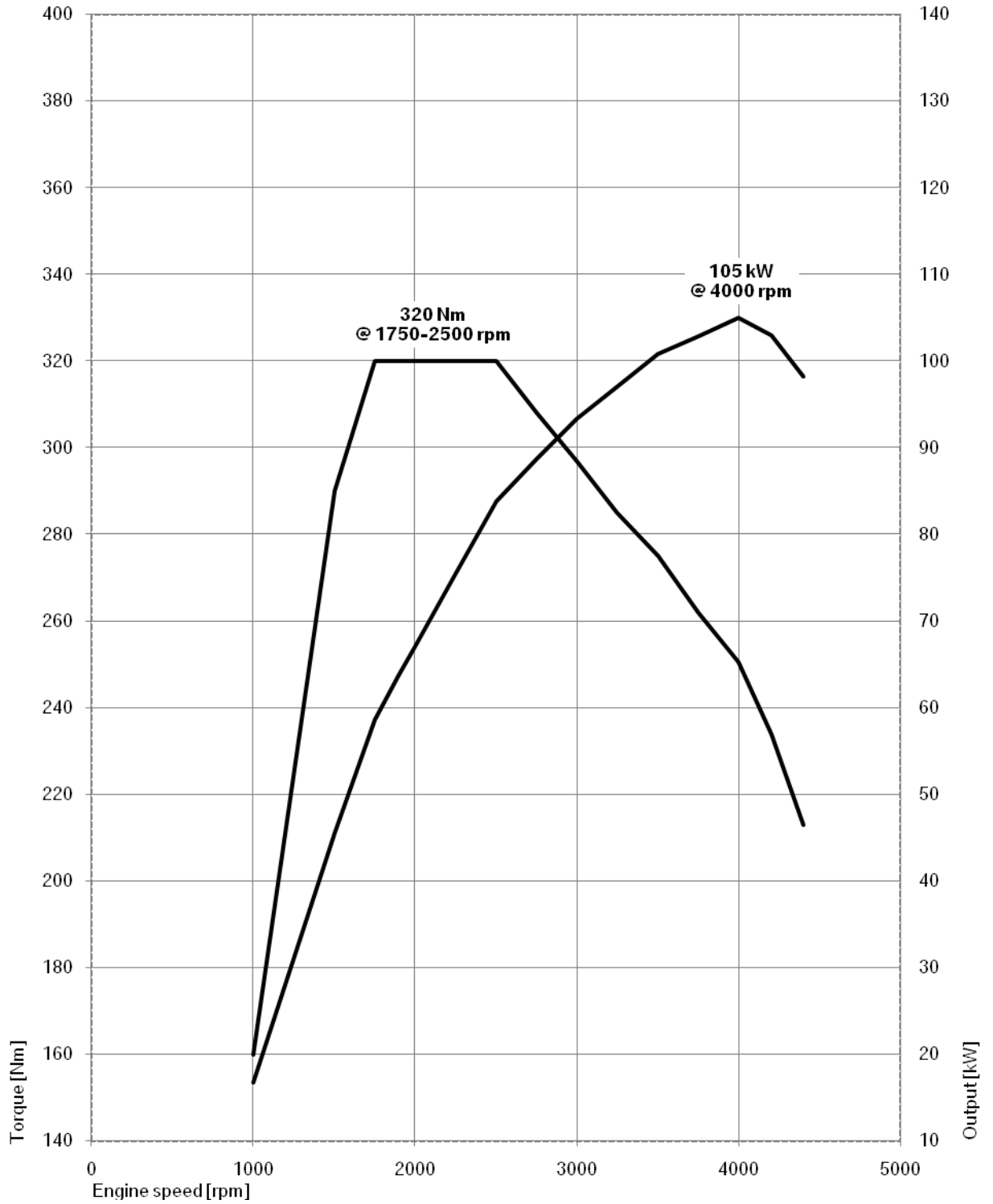
		BMW 320i Gran Turismo	BMW 328i Gran Turismo	BMW 335i Gran Turismo
Body				
Noofdoors/seats		4 / 5	4 / 5	4 / 5
Length/width/height (unladen)	mm	4824 / 1828 / 1508	4824 / 1828 / 1508	4824 / 1828 / 1508
Wheelbase	mm	2920	2920	2920
Track, front/rear	mm	1541 / 1586	1541 / 1586	1541 / 1586
Groundclearance	mm	165	165	165
Turningcircle	m	11,8	11,8	11,8
Fuel Tank capacity	applt	60	60	60
Coolingsysteminclheater	ltr	7,1 (7,7)	7,2 (7,5)	6,9 (7,1)
Engine oil ¹⁾	ltr	5,75	5,75	6,5
Weight, unladen, to DIN/EU	kg	1540 / 1615 (1560/1635)	1570 / 1645 (1595/1670)	1640 / 1715 (1650/1725)
Max loadto DIN	kg	570	570	570
Max permissible	kg	2110 (2130)	2140 (2165)	2210 (2220)
Max axle load, front/rear	kg	935 / 1240	950 / 1260	1000 / 1265
Max trailer load (12%), braked/unbraked	kg	1400 (1500) / 695	1600 / 745	1700 / 750
Max roofload/max towbardownl	kg	75 / 75	75 / 75	75 / 75
Luggagecompcapacity	ltr	520 / 1600	520 / 1600	520 / 1600
Air drag	Cd x A	0,29 x 2,31	0,29 x 2,31	0,30 x 2,31
Power Unit				
Config/No of cyls/valves		In-line/ 4 / 4	In-line / 4 / 4	In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology with twin-scroll turbocharging, High Precision Direct Petrol Injection and fully variable valve control (VALVETRONIC)		
Capacity, effective	cc	1997	1997	2979
Stroke / bore	mm	90,1 / 84,0	90,1 / 84,0	89,6 / 84,0
Compression ratio	:1	11,0	10,0	10,2
Fuel		min. ROZ91	min. ROZ 91	min. ROZ 91
Max output	kW/hp	135 / 184	180 / 245	225 / 306
at	rpm	5000-6250	5000	5800
Max torque	Nm/lb-ft	270	350	400
at	rpm	1250 – 4500	1250-4800	1200-5000
Electrical System				
Battery / installation	Ah/-	90 / Luggagecompartment	90 / Luggagecompartment	90 / Luggagecompartment
Alternator	AW	170 / 2380	170 / 2380	170 / 2380
Driving Dynamics and Safety				
Suspension, front		Aluminium double-joint spring strut axle with displaced camber, small positive steering roll radius, transverse force compensation, anti-dive		
Suspension, rear		Five-link axle in lightweight construction		
Brakes, front		Single-piston floating-calliper disc brakes / vented		
Brakes, rear		Single-piston fixed-calliper disc brakes / vented		
Drivingstabilitysystems		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		
Safetyequipment		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 latch tensioner and belt force limiter at the front, crash-activated head restraints at the front, crash sensors, Tyre Defect Indicator		
Steering		Electric Power Steering (EPS), optional: Servotronic Function, Variable Sport Steering).		
Steeringtransmission, overall	:1	15,3	15,3	15,3
Tyres, front/rear		225/55 R17 97V	225/55 R17 97W	225/55 R17 97W
Rims, front/rear		8,0J x 17 Light Alloy	8,0J x 17 Light Alloy	8,0J x 17 Light Alloy

			BMW 320i Gran Turismo	BMW 328i Gran Turismo	BMW 335i Gran Turismo
BMW ConnectedDrive					
Comfort			Optional: BMW Assist incl. Enquiry Service, remote-control functions and V-Info+ (Traffic Info plus), RTTI, BMW TeleServices, mobile device integration		
Infotainment			Optional: internet access, BMW Online incl. Park Info, National Info, Google Local Search, News, Realtime Weather, BMW Routes, Office functions, Bluetooth Audio Streaming and Online Update Music Tracks, Apps		
Safety			Optional: Adaptive Headlights with turning lights, variable light distribution and adaptive headlight range adjustment, high beam assistance, park distance control, rear view camera, Surround View incl. Side View and Top View, BMW Head-Up Display, cruise control with brake function, Parking Assistant, Lane Change Warning, Lane Departure Warning with Collision Warning, speed limit and no passing information, Active Protection, extended emergency call		
Transmission					
Type of transmission			Six-speed manual (optional: eight-speed-automatic)		
Gear ratios	I	:1	4,323 (4,714)	3,683 (4,174)	4,110 (4,171)
	II	:1	2,459 (3,143)	2,062 (3,143)	2,315 (3,143)
	III	:1	1,659 (2,106)	1,313 (2,106)	1,542 (2,106)
	IV	:1	1,230 (1,667)	1,000 (1,667)	1,179 (1,667)
	V	:1	1,000 (1,285)	0,809 (1,285)	1,000 (1,285)
	VI	:1	0,849 (1,000)	0,677 (1,000)	0,846 (1,000)
	VII	:1	– (0,839)	– (0,839)	– (0,839)
	VIII	:1	– (0,667)	– (0,667)	– (0,667)
	Reverse	:1	3,938 (3,295)	3,348 (3,295)	3,727 (3,295)
Final drive		:1	3,231 (3,154)	3,909 (3,154)	3,231 (3,077)
Performance					
Power-to-weight ratio	kg/kW		11,4 (11,6)	8,7 (8,9)	7,3 (7,3)
Output per litre	kW/l		67,6	90,1	75,5
Acceleration 0–100 km/h	sec		7,9 (7,9)	6,1 (6,1)	5,7 (5,4)
Standing-start km	sec		28,4 (28,7)	25,9 (25,9)	24,7 (24,8)
In 4th/5th gear 80–120 km/h	sec		8,1 / 9,8 (-)	6,0 / 7,7 (-)	5,8 / 6,5 (-)
Top speed	km/h		230 (229)	250 (250)	250 (250)
BMW EfficientDynamics					
BMW EfficientDynamics standard features			Brake Energy Regeneration, electromechanical power steering, Automatic Start/Stop function, Gear shift indicator (Manual Transmission) ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, map-regulated oil pump, detachable a/c compressor (BMW 320i Automatic Transmission), differential with optimized-warm-up behaviour, tyres with reduced rolling resistance		
Fuel Consumption in EU Cycle					
Standard Wheels:					
Urban	ltr/100		8,7 (8,2)	8,8 (8,3)	11,3 (10,8)
Extra-urban	ltr/100		5,3 (5,1)	5,5 (5,3)	6,2 (5,8)
Combined	ltr/100		6,6 (6,2)	6,7 (6,4)	8,1 (7,7)
CO ₂	g/km		153 (145)	156 (149)	188 (178)
Emission rating			EU6	EU6	EU5

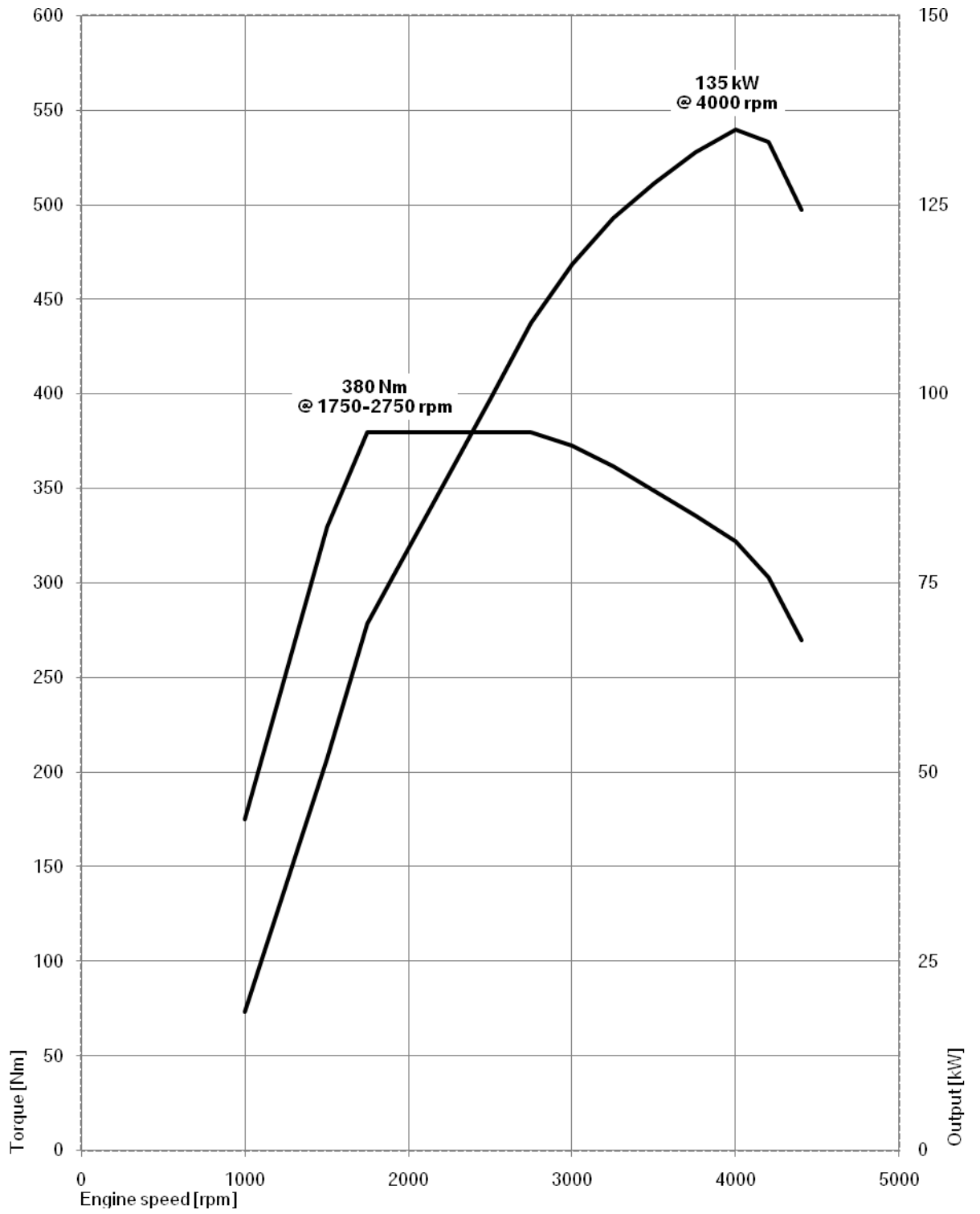
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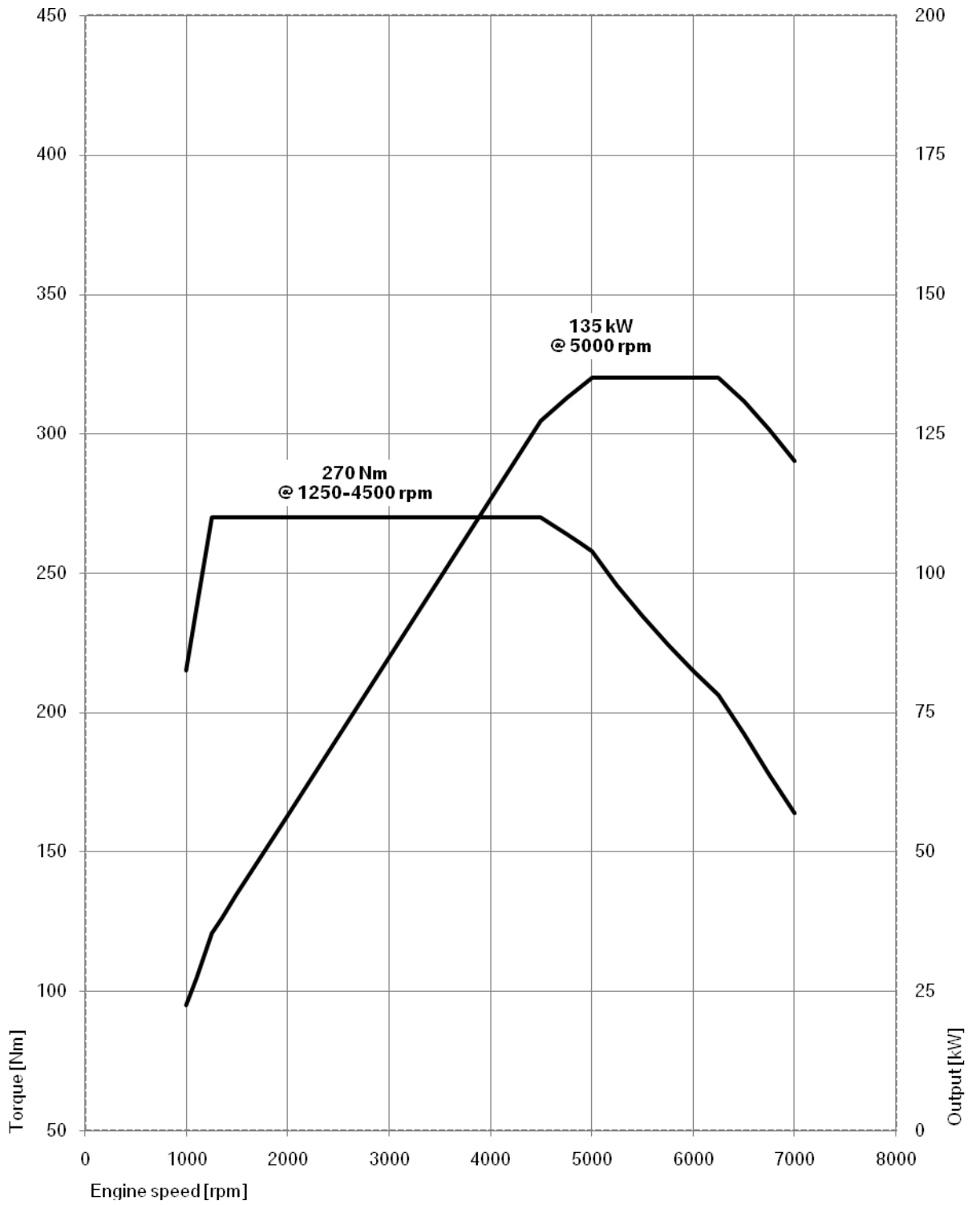
8. Output and torque diagrams. The new BMW 3 Series Gran Turismo. 318d.



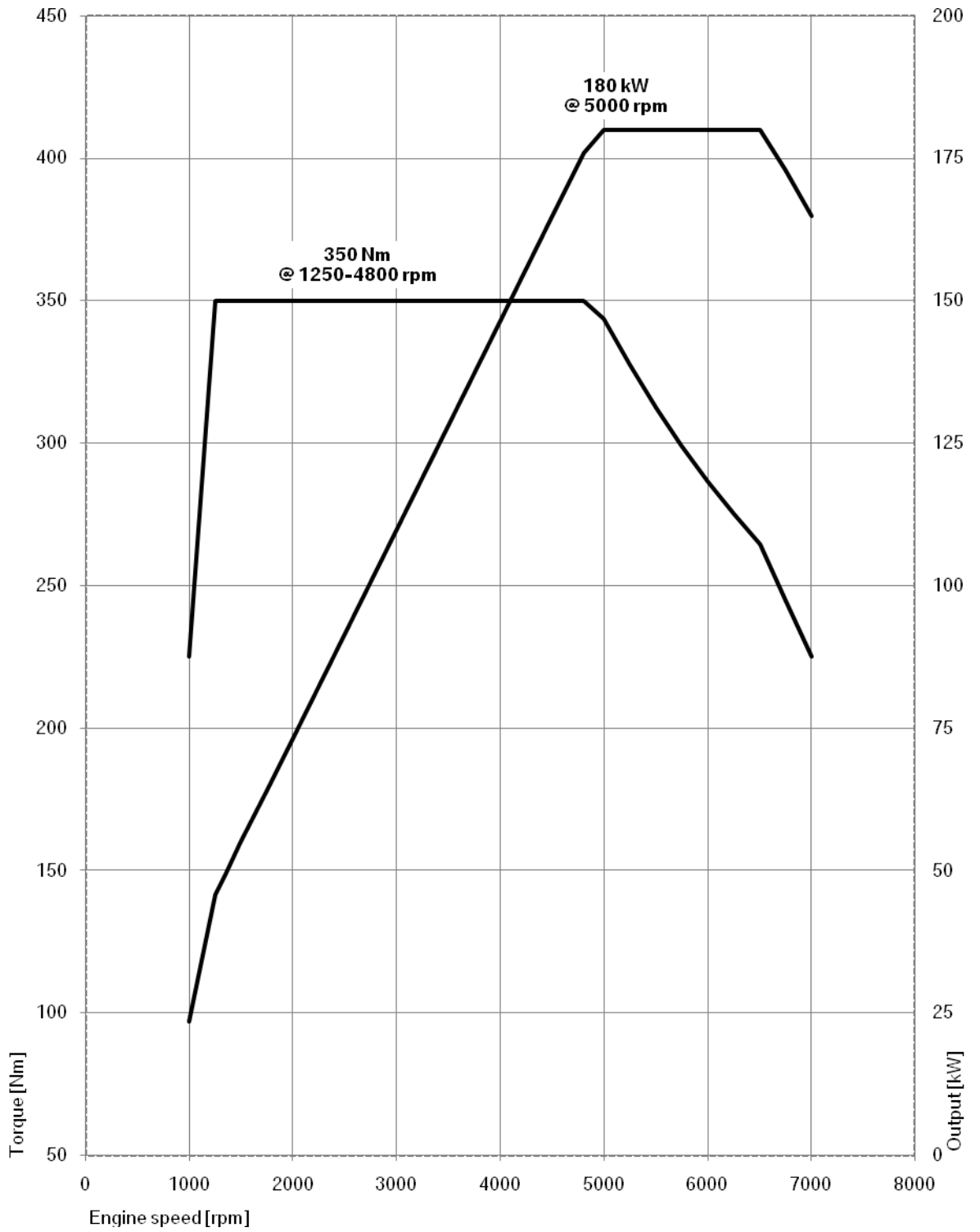
The new BMW 3 Series Gran Turismo. 320d.



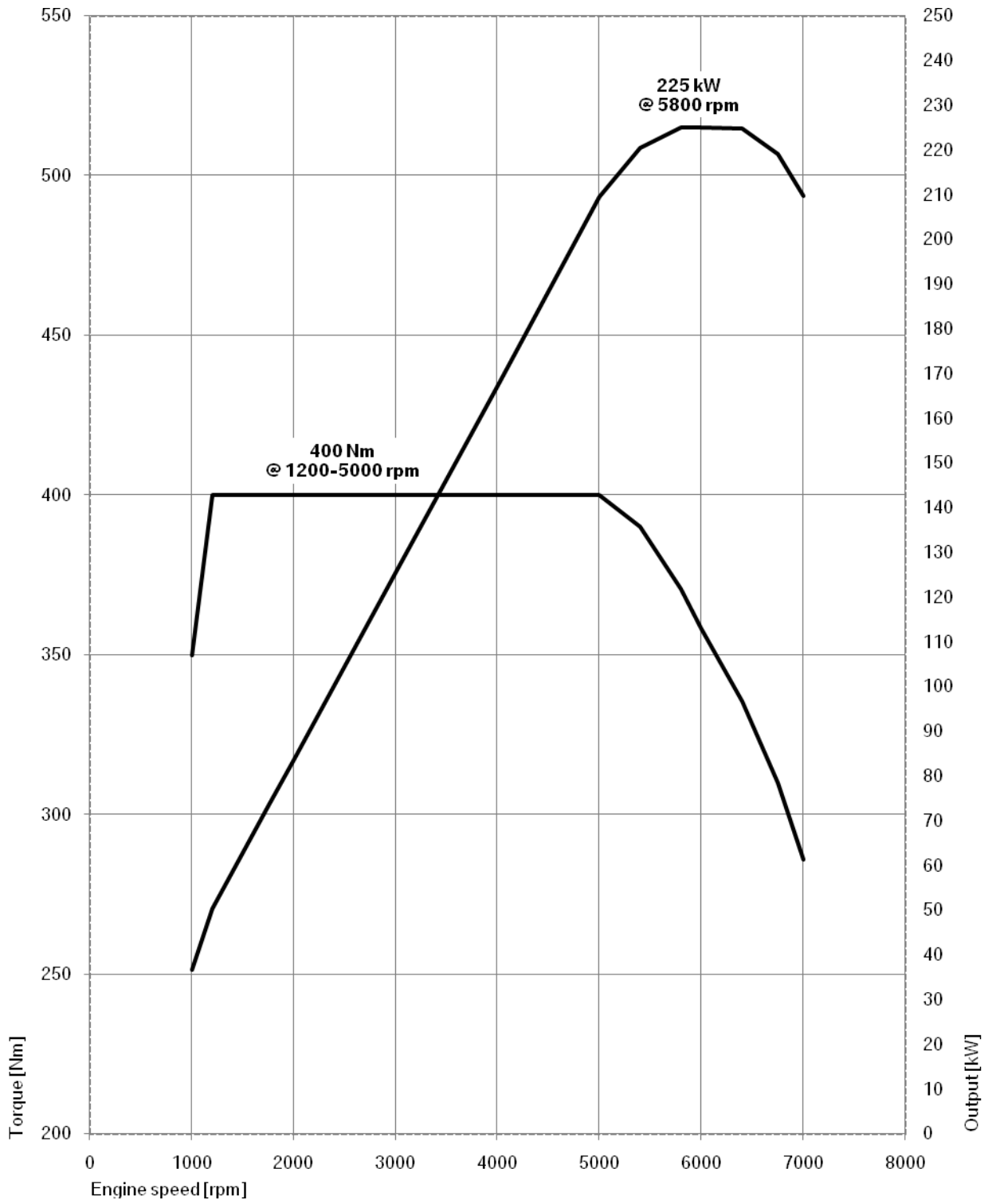
The new BMW 3 Series Gran Turismo. 320i.



The new BMW 3 Series Gran Turismo. 328i.



The new BMW 3 Series Gran Turismo. 335i.



9. Exterior and interior dimensions.

