

7. Specifications.

The new BMW 4 Series Coupe.

428i, 435i.



	BMW 428i Coupe		BMW 435i Coupe	
Body				
No. of doors/seats		2 / 4		2 / 4
Length/width/height (unladen)	mm	4638 / 1825 / 1362		4638 / 1825 / 1362
Wheelbase	mm	2810		2810
Track, front/rear	mm	1545 / 1594		1545 / 1594
Ground clearance		130		130
Turning circle	m	11.3		11.3
Tank capacity	approx. ltr	60		60
Cooling system incl. heating	ltr	7.2 (7.5)		6.7 (7.2)
Engine oil ¹⁾	ltr	5.75		6.5
Weight, unladen, to DIN/EU	kg	1450/1525 (1470/1545)		1510/1585 (1525/1600)
Max load to DIN	kg	520		520
Max permissible weight	kg	1970 (1990)		2030 (2045)
Max axle load, front/rear	kg	920/1105		970/1120
Max trailer load, braked (12%/unbraked)	kg	1600 / 745		1700 / 750
Max roof load/towbar	kg	75 / 75		75 / 75
Luggage comp. capacity	ltr	445		445
Air resistance	c _d x A	0.29 x 2.16		0.30 x 2.16
Engine				
Config./No. of cyls./valves		In-line / 4 / 4		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology with Twin-Scroll turbocharger, High Precision Direct Injection, fully variable valve control (Valvetronic)		
Effective capacity	cm ³	1997		2979
Bore/stroke	mm	90.1 / 84.0		89.6 / 84.0
Compression ratio	:1	10.0		10.2
Fuel grade		Min. RON 91		Min. RON 91
Output	kW/hp	180 / 245		225 / 306
at	rpm	5000-6500		5800-6000
Torque	Nm	350		400
at	rpm	1250-4800		1200-5000
Electrical System				
Battery/Installation	Ah/-	90 / luggage comp.		90 / luggage comp.
Alternator	A/W	170 / 2380		170 / 2380
Driving Dynamics and Safety				
Suspension, front		Aluminium double-joint spring strut axle with displaced camber, small positive steering roll radius, compensation of lateral forces, anti-dive		
Suspension, rear		Five-link axle in lightweight steel construction		
Brakes, front		Single-piston swing-calliper disc brakes / inner-vented		
Brakes, rear		Single-piston swing-calliper disc brakes / inner-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		
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt stopper, belt latch tensioner and belt force limiter at the front, crash-activated head restraints at the front, crash sensors, Tyre Defect Indicator		
Steering		Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: Variable Sports Steering		
Steering ratio, overall	:1	15.0		15.0
Tyres, front/rear		225/50 R17 94W		225/50 R17 94W
Rims, front/rear		7.5J x 17 light alloys		7.5J x 17 light alloys

		BMW 428i Coupe	BMW 435i Coupe
Transmission			
Type of gearbox	Six-speed manual (optional: eight-speed automatic)		
Gear ratios	I	:1	3.498 (4.714)
	II	:1	2.005 (3.143)
	III	:1	1.313 (2.106)
	IV	:1	1.000 (1.667)
	V	:1	0.809 (1.285)
	VI	:1	0.701 (1.000)
	VII	:1	----- (0.839)
	VIII	:1	----- (0.667)
	R	:1	3.187 (3.295)
Final drive		:1	3.909 (3.154)
Performance			
Power-to-weight ratio	kg/kW	8.1 (8.2)	6.7 (6.8)
Output per litre	kWh/l	90.1	75.5
Acceleration	0–100 km/h	s	5.9 (5.8)
	0–1000 m	s	25.4 (25.6)
in 4th gear	80–120 km/h	s	5.3 / 6.9 (-)
Top speed	km/h	250 (250)	250 (250)
BMW EfficientDynamics			
BMW EfficientDynamics, standard features	Brake Energy Regeneration, Electric Power Steering (EPS), Auto Start Stop function, Optimum Shift Indicator (on models with manual gearbox), ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, map-controlled oil pump, final drive with optimised warm-up behaviour, tyres with reduced roll resistance		
Fuel Consumption EU²⁾			
With standard tyres:			
Urban	l/100km	8.8 (8.1)	11.1 (10.2)
Extra-urban	l/100km	5.3 (5.2)	6.1 (5.5)
Combined	l/100km	6.6 (6.3)	7.9 (7.2)
CO ₂	g/km	154 (147)	185 (169)
Emission rating		EU6	EU6

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

¹⁾ Oil change

²⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format

The new BMW 4 Series Coupe.

428i xDrive, 435i xDrive.

	BMW 428i xDrive Coupe		BMW 435i xDrive Coupe	
Body				
No. of doors/seats		2 / 4		2 / 4
Length/width/height (unladen)	mm	4638 / 1825 / 1377		4638 / 1825 / 1377
Wheelbase	mm	2810		2810
Track, front/rear	mm	1544 / 1590		1544 / 1590
Ground clearance		145		145
Turning circle	m	11.8		11.8
Tank capacity	approx. ltr	60		60
Cooling system incl. heating	ltr	7.2 (7.5)		6.7 (7.2)
Engine oil ¹⁾	ltr	5.75		6.5
Weight, unladen, to DINEU	kg	1540/1615		1590/1665
Max load to DIN	kg	520		520
Max permissible weight	kg	2080		2110
Max axle load, front/rear	kg	980/1115		1030/1120
Max trailer load, braked (12%/unbraked)	kg	1700 / 750		1800 / 750
Max roof load/towbar download	kg	75 / 75		75 / 75
Luggage comp. capacity	ltr	445		445
Air resistance	c _d x A	0.30 x 2.16		0.30 x 2.16
Engine				
Config./No. of cyls./valves		In-line / 4 / 4		In-line / 6 / 4
Engine technology		BMW TwinPower Turbo technology with Twin-Scroll turbocharger, High Precision Direct Injection, fully variable valve control (Valvetronic)		
Effective capacity	cm ³	1997		2979
Bore/stroke	mm	90.1 / 84.0		89.6 / 84.0
Compression ratio	:1	10.0		10.2
Fuel grade		Min. RON 91		Min. RON 91
Output	kW/hp	180 / 245		225 / 306
at	rpm	5000-6500		5800-6000
Torque	Nm	350		400
at	rpm	1250-4800		1200-5000
Electrical System				
Battery/Installation	Ah/-	90 / luggage comp.		90 / luggage comp.
Alternator	AW	170 / 2380		170 / 2380
Driving Dynamics and Safety				
Suspension, front		Aluminium double-joint spring strut axle with displaced camber, small positive steering roll radius, compensation of lateral forces, anti-dive		
Suspension, rear		Five-link axle in lightweight steel construction		
Brakes, front		Single-piston swing-calliper disc brakes / inner-vented		
Brakes, rear		Single-piston swing-calliper disc brakes / inner-vented		
Driving stability systems		Standard: xDrive all-wheel drive, DSC incl. ABS and DTC (Dynamic Traction Control), CBC (Cornering Brake Control), DBC (Dynamic Brake Control), Dry Braking function, Fading Compensation, Start-Off Assistant		
Safety equipment		Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt stopper, belt tensioner and belt force limiter at the front, crash-activated head restraints at the front, crash sensors, Tyre Defect Indicator		
Steering		Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: Variable Sports Steering		
Steering ratio, overall	:1	15.0		15.0
Tyres, front/rear		225/50 R17 94W		225/50 R17 94W
Rims, front/rear		7.5J x 17 light alloys		7.5J x 17 light alloys

			BMW 428i xDrive Coupe	BMW 435i xDrive Coupe
Transmission				
Type of gearbox	Eight-speed automatic			
Gear ratios	I	:1	4.714	4.714
	II	:1	3.143	3.143
	III	:1	2.106	2.106
	IV	:1	1.667	1.667
	V	:1	1.285	1.285
	VI	:1	1.000	1.000
	VII	:1	0.839	0.839
	VIII	:1	0.667	0.667
	R	:1	3.295	3.295
Final drive		:1	3.154	3.154
Performance				
Power-to-weight ratio		kg/kW	8.6	7.1
Output per litre		kW/ltr	90.1	75.5
Acceleration	0–100 km/h	s	5.8	4.9
	0–1000 m	s	25.6	24.3
in 4th gear	80–120 km/h	s	-	-
Top speed		km/h	250	250
BMW EfficientDynamics				
BMW EfficientDynamics, standard features	Brake Energy Regeneration, Electric Power Steering (EPS), Auto Start Stop function, ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, map-controlled oil pump, final drive with optimised warm-up behaviour, tyres with reduced roll resistance			
Fuel Consumption EU²⁾				
With standard tyres:				
Urban		l/100km	8.7	10.8
Extra-urban		l/100km	5.5	5.8
Combined		l/100km	6.7	7.6
CO ₂		g/km	157	178
Emission rating			EU6	EU6

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

¹⁾ Oil change

²⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format

The new BMW 4 Series Coupe. 420d.

BMW 420d Coupe		
Body		
No. of doors/seats		2 / 4
Length/width/height (unladen)	mm	4638 / 1825 / 1362
Wheelbase	mm	2810
Track, front/rear	mm	1545 / 1594
Ground clearance		130
Turning circle	m	11.3
Tank capacity	approx. ltr	57
Cooling system incl. heating	ltr	7.0
Engine oil ¹⁾	ltr	5.2
Weight, unladen, to DINEU	kg	1450/1525 (1465/1540)
Max load to DIN	kg	520
Max permissible weight	kg	1970 (1985)
Max axle load, front/rear	kg	925/1100
Max trailer load, braked (12%/unbraked)	kg	1600 / 745
Max roof load/towbar	kg	75 / 75
Luggage comp. capacity	ltr	445
Air resistance	$c_d \times A$	0.28 x 2.16
Engine		
Config./No. of cyls./valves		R / 4 / 4
Engine technology	BMW TwinPower Turbo technology: turbocharger with variable-inlet geometry, Common Rail direct injection with solenoid valve injectors, max. injection pressure: 1800 bar	
Effective capacity	cm ³	1995
Bore/stroke	mm	90.0 / 84.0
Compression ratio	:1	16.5
Fuel grade		Diesel
Output	kW/hp	135 / 184
at	rpm	4000
Torque	Nm	380
at	rpm	1750 – 2750
Electrical System		
Battery/Installation	Ah/-	90 / luggage comp.
Alternator	A/W	175 / 2450
Driving Dynamics and Safety		
Suspension, front	Aluminium double-joint spring strut axle with displaced camber, small positive steering roll radius, compensation of lateral forces, anti-dive	
Suspension, rear	Five-link axle in lightweight steel construction	
Brakes, front	Single-piston swing-calliper disc brakes / inner-vented	
Brakes, rear	Single-piston swing-calliper disc brakes / inner-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	
Safety equipment	Standard: airbags for driver and front passenger, side airbags for driver and front passenger, head airbags front and rear, three-point inertia-reel seatbelts on all seats with belt stopper, belt tensioner and belt force limiter at the front, crash-activated head restraints at the front, crash sensors, Tyre Defect Indicator	
Steering	Electromechanical rack-and-pinion power steering (EPS) with Servotronic function; optional: Variable Sports Steering	
Steering ratio, overall	:1	15.0
Tyres, front/rear		225/50 R17 94W
Rims, front/rear		7.5J x 17 light alloys

BMW 420d Coupe

Transmission

Type of gearbox	Six-speed manual (optional: eight-speed automatic)		
Gear ratios	I	:1	4.110 (4.714)
	II	:1	2.248 (3.143)
	III	:1	1.403 (2.106)
	IV	:1	1.000 (1.667)
	V	:1	0.802 (1.285)
	VI	:1	0.659 (1.000)
	VII	:1	----- (0.839)
	VIII	:1	----- (0.667)
	R	:1	3.727 (3.295)
Final drive		:1	3.231 (2.813)

Performance

Power-to-weight ratio	kg/kW	10.7 (10.9)
Output per litre	kW/ltr	67.7
Acceleration	0–100 km/h	s
	0–1000 m	s
		7.5 (7.3)
		27.9 (27.7)
in 4th gear	80–120 km/h	s
		5.9 / 7.5 (-)
Top speed	km/h	240 (232)

BMW EfficientDynamics

BMW EfficientDynamics, standard features	Brake Energy Regeneration, Electric Power Steering (EPS), Auto Start Stop function, ECO PRO mode, intelligent lightweight construction, on-demand operation of ancillary units, final drive with optimised warm-up behaviour, tyres with reduced roll resistance
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Fuel Consumption EU²⁾

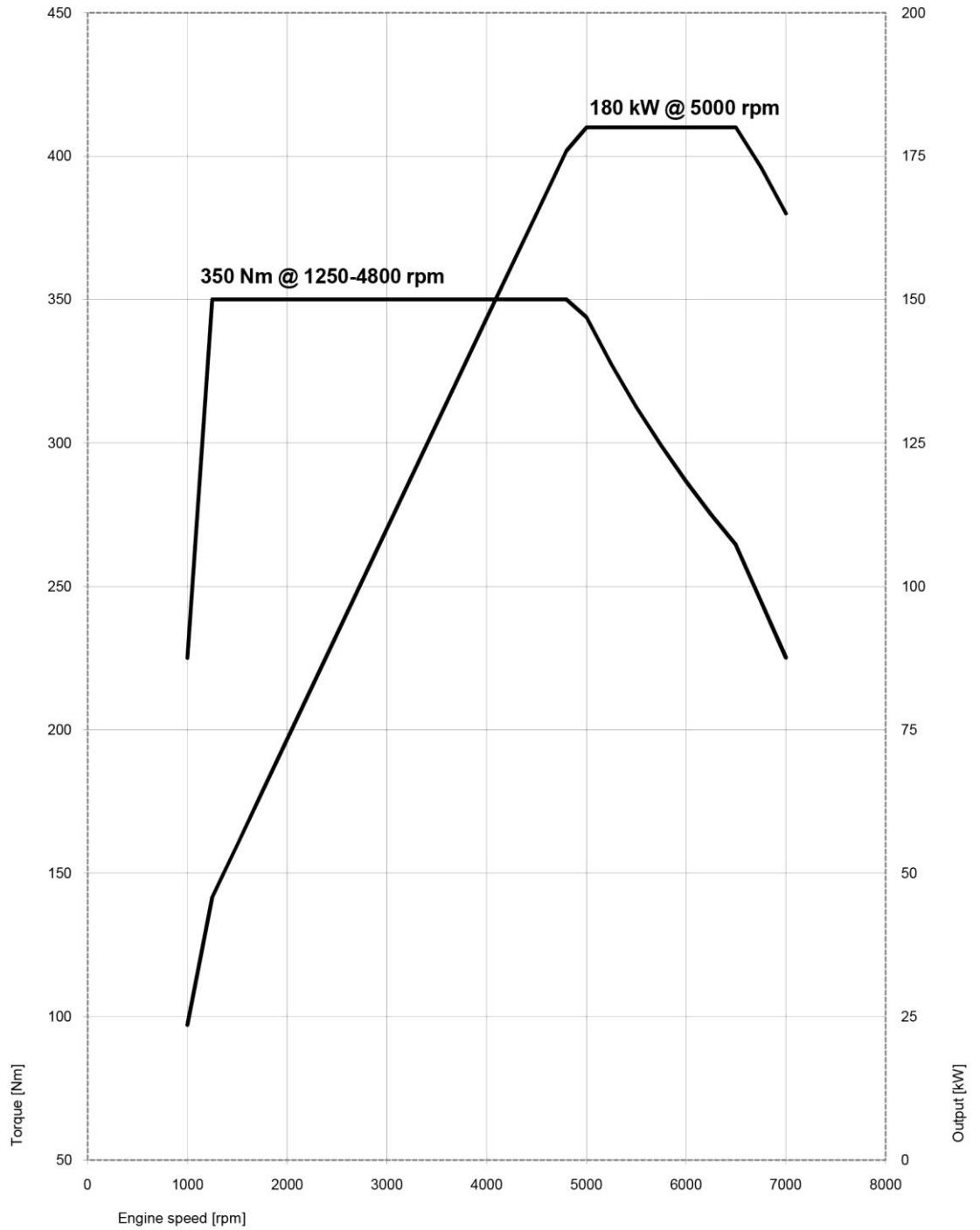
With standard tyres:		
Urban	l/100km	5.8 (5.4)
Extra-urban	l/100km	4.1 (4.1)
Combined	l/100km	4.7 (4.6)
CO ₂	g/km	124 (121)
Emission rating		EU6

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

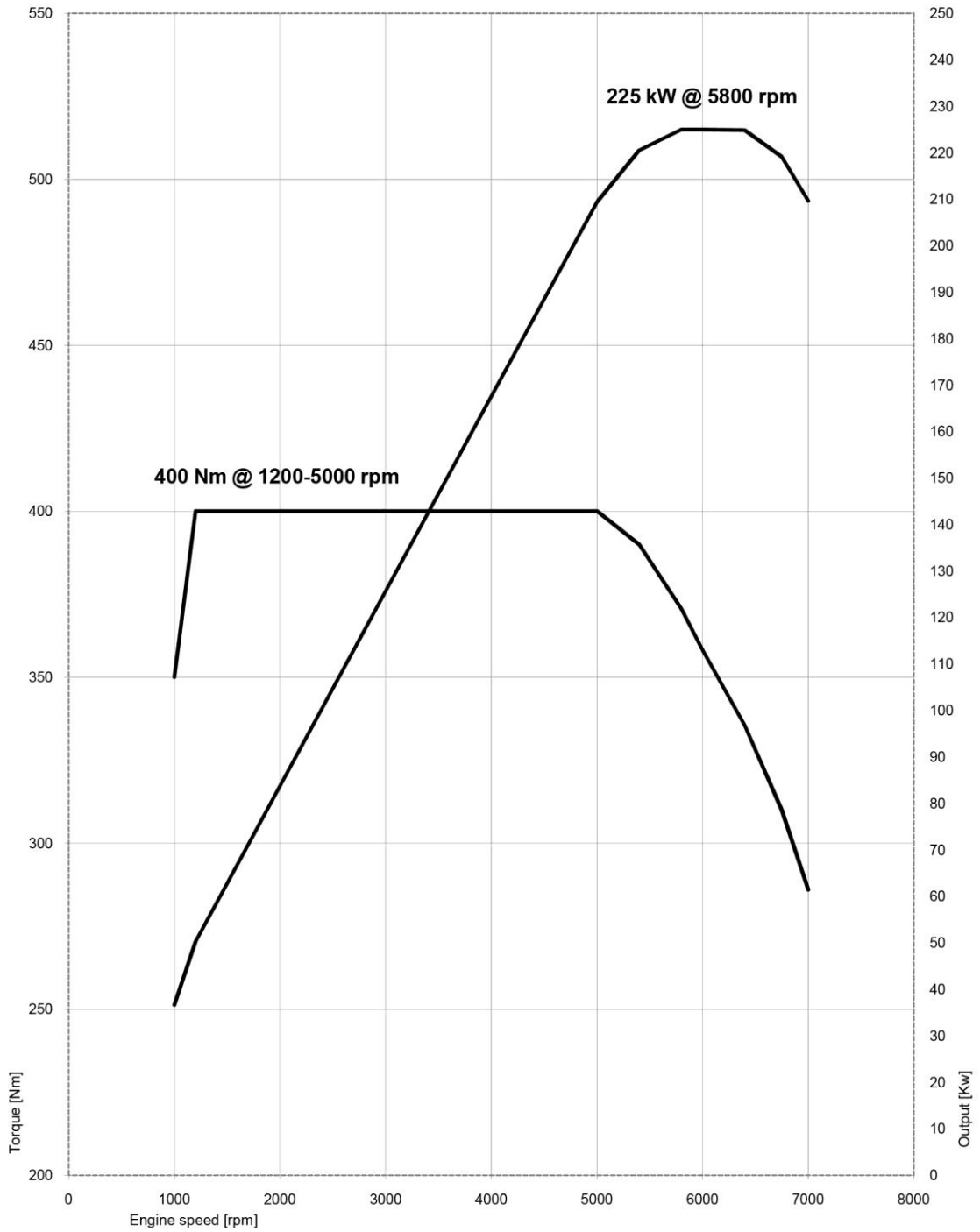
¹⁾ Oil change

²⁾ Fuel consumption and CO₂ emissions depend on the selected tyre format

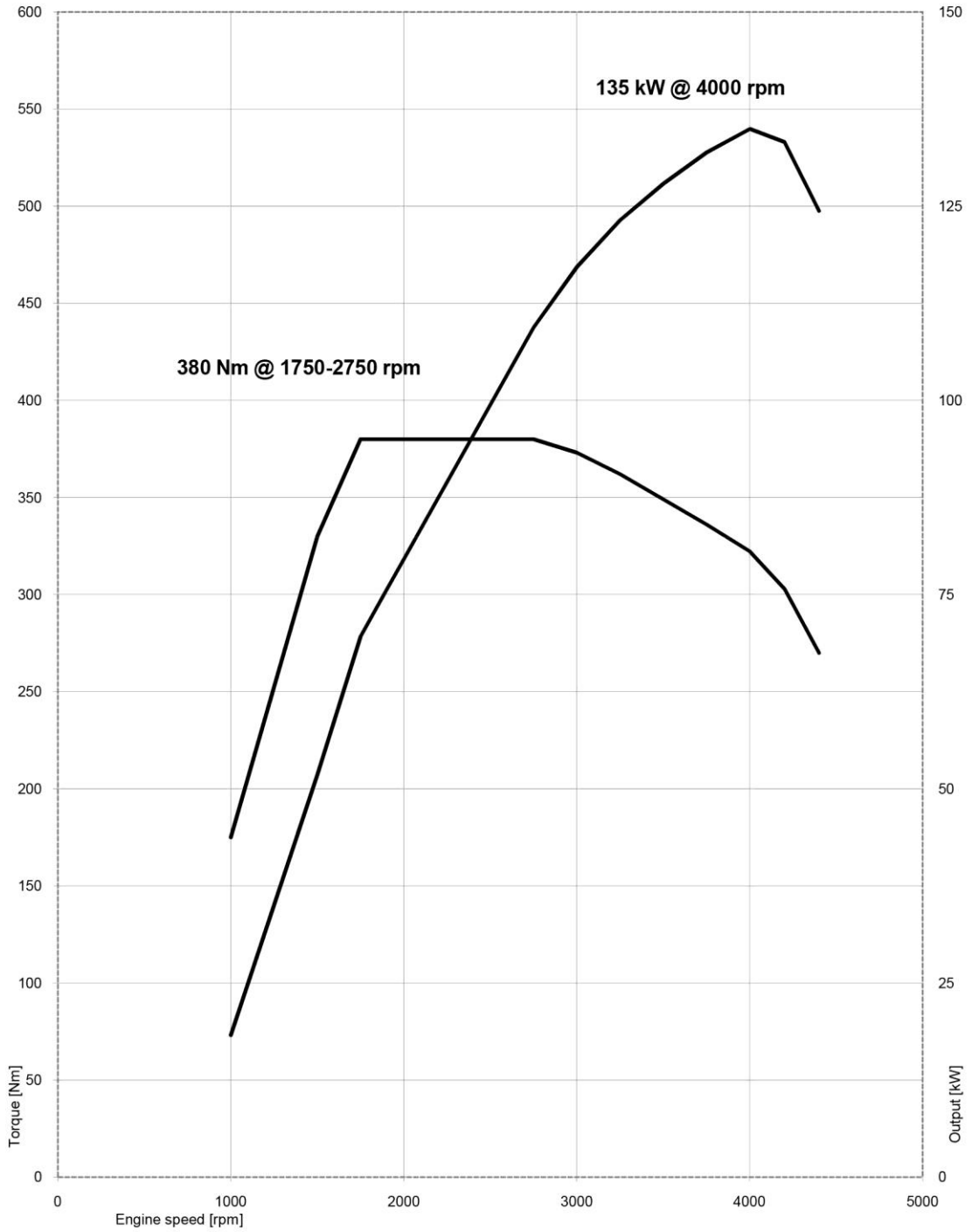
8. Torque and output diagrams. The new BMW 4 Series Coupe. 428i.



The new BMW 4 Series Coupe. 435i.



The new BMW 4 Series Coupe. 420d.



9. Exterior and interior dimensions. The new BMW 4 Series Coupe.

