

Mercedes-Benz GL 320 CDI

Page 41

Engine

No. of cylinders/arrangement		6/V, 4 valves per cylinder
Displacement	cc	2987
Bore x stroke	mm	83.0 x 92.0
Rated output	kW/hp	165/224 at 3800 rpm
Rated torque	Nm	510 at 1600-2800 rpm
Compression ratio		17.7 : 1
Mixture formation		High-pressure direct injection, common rail technology, VNT turbocharger. EDC

Power transfer

Transmission		Electronically controlled, 7G-TRONIC seven-speed automatic transmission with torque converter lockup and DIRECT SELECT
Drive system		4MATIC permanent four-wheel drive , ESP [®] , 4ETS; two-speed transfer case with multiple-disc limited slip differential lock (up to 100%) and multiple-disc limited slip differential lock at the rear axle (up to 100%)
Torque distribution front axle/rear axle		50:50
Gear ratio reduction	i=	2.93
Final drive	i=	3.45
Gear ratios, i=	1st gear	4.38
	2nd gear	2.86
	3rd gear	1.92
	4th gear	1.37
	5th gear	1.00
	6th gear	0.82
	7th gear	0.73
	Reverse	3.42

Chassis

Front axle	Double wishbone suspension, anti-dive, pneumatic springs, torsion bar stabiliser, gas-pressure shock absorbers
Rear axle	Four-link suspension, anti-squat and anti-dive, pneumatic springs, torsion bar stabiliser, gas-pressure shock absorbers
Suspension	AIRMATIC air suspension with automatic level control and ADS
Braking system	Hydraulic dual-circuit braking system with vacuum booster, stepped master brake cylinder, ABS, BAS, front and rear internally ventilated disc brakes, foot-operated parking brake
Steering	Speed-sensitive power steering
Wheels	8J x 18
Tyres	265/60 R 18

Dimensions and weights

Wheelbase	mm	3075
Track front/rear	mm	1651/1654
Overall length	mm	5088
Overall width	mm	1920
Overall height on-road	mm	1840
Ground clearance	mm	Max. 307
Overhang front/rear	mm	870/1143
Angle of approach/departure front/rear	Degrees°	Max. 33/27
Ramp angle	Degrees°	Max. 23
Fording depth	mm	600
Turning circle	m	12.1
Boot capacity	l	300 - 2300
Kerb weight acc. to DIN (EC*)	kg	2375 (2450)
Payload acc. to DIN (EC)	kg	775 (700)
Gross vehicle weight	kg	3150 (five-seater), 3250 (seven-seater)
Towing capacity with/without trailer brake	kg	3500 750
Tank capacity/reserve	l	100/13

Performance and fuel consumption**

Acceleration 0–100 km/h	s	9.5
Max. speed	km/h	210
Fuel consumption	l/100 km	9.7
Combined		

* According to 1992/21/EG, in standard specification incl. driver (68 kg), luggage (7kg) and 90% full tank

** Preliminary figures

Mercedes-Benz GL 420 CDI

Page 43

<u>Engine</u>		
No. of cylinders/arrangement		8/V , 4 valves per cylinder
Displacement	cc	3996
Bore x stroke	mm	86 x 86
Rated output	kW/hp	225/306 at 3600 rpm
Rated torque	Nm	700 at 2200-2600 rpm
Compression ratio		17.0 : 1
Mixture formation		High-pressure direct injection, common rail technology, 2 x VNT turbochargers. EDC
<u>Power transfer</u>		
Transmission		Electronically controlled 7G-TRONIC seven-speed automatic transmission with torque converter lockup and DIRECT SELECT
Drive system		4MATIC permanent four-wheel drive , ESP [®] , 4ETS; two-speed transfer case with multiple-disc limited slip differential lock (up to 100%) and multiple-disc limited slip differential lock at the rear axle (up to 100%)
Torque distribution front axle/rear axle		50:50
Gear ratio reduction	i=	2.93
Final drive	i=	3,09
Gear ratios, i=	1st gear	4.38
	2nd gear	2.86
	3rd gear	1.92
	4th gear	1.37
	5th gear	1.00
	6th gear	0.82
	7th gear	0.73
	Reverse	3.42
<u>Chassis</u>		
Front axle		Double wishbone suspension, anti-dive, pneumatic springs, torsion bar stabiliser, gas-pressure shock absorbers
Rear axle		Four-link suspension, anti-squat and anti-dive, pneumatic springs, torsion bar stabiliser, gas-pressure shock absorbers
Suspension		AIRMATIC air suspension with automatic level control and ADS
Braking system		Hydraulic dual-circuit braking system with vacuum booster, stepped master brake cylinder, ABS, BAS, front and rear internally ventilated disc brakes, foot-operated parking brake
Steering		Speed-sensitive power steering
Wheels		8.5J x 19
Tyres		275/55 R 19

Dimensions and weights

Wheelbase	mm	3075
Track width front/rear	mm	1645/1648
Overall length	mm	5088
Overall width	mm	1920
Overall height on-road	mm	1840
Ground clearance	mm	Max. 307
Overhang front/rear	mm	870/1143
Angle of approach/departure front/rear	Degrees°	Max. 33/27
Ramp angle	Degrees°	Max. 23
Fording depth	mm	600
Turning circle	m	12.1
Boot capacity	l	300 -2300
Kerb weight acc. to DIN (EC*)	kg	2475 (2550)
Payload acc. to DIN (EC)	kg	775 (700)
Gross vehicle weight	kg	3250 five and seven-seater
Towing capacity with/without trailer brake	kg	3500 750
Tank capacity/reserve	l	100/13

Performance and fuel consumption**

Acceleration 0–100 km/h	s	7.2
Max. speed	km/h	230
Fuel consumption Combined	l/100 km	11.3

*According to 1992/21/EG, in standard specification incl. driver (68 kg), luggage (7kg) and 90% full tank

** Preliminary figures

Mercedes-Benz GL 450

Page 45

Engine

No. of cylinders/arrangement		8/V, 4 valves per cylinder
Displacement	cc	4663
Bore x stroke	mm	92.9 x 86
Rated output	kW/hp	250/340 at 6000 rpm
Rated torque	Nm	460 at 2700-5000 rpm
Compression ratio		10.7 : 1
Mixture formation		Microprocessor-controlled fuel injection, HFM

Power transfer

Transmission		Electronically controlled, 7G-TRONIC seven-speed automatic transmission with torque converter lockup and DIRECT SELECT
Drive system		4MATIC permanent four-wheel drive , ESP [®] , 4ETS; two-speed transfer case with multiple-disc limited slip differential lock (up to 100%) and multiple-disc limited slip differential lock at the rear axle (up to 100%)
Torque distribution front axle/rear axle		50:50
Gear ratio reduction	i=	2.93
Final drive	i=	3,70
Gear ratios i=	1st gear	4.38
	2nd gear	2.86
	3rd gear	1.92
	4th gear	1.37
	5th gear	1.00
	6th gear	0.82
	7th gear	0.73
	Reverse	3.42

Chassis

Front axle		Double wishbone suspension, anti-dive, pneumatic springs, torsion bar stabiliser, gas-pressure shock absorbers
Rear axle		Four-link suspension, anti-squat and anti-dive, pneumatic springs, torsion bar stabiliser, gas-pressure shock absorbers
Suspension		AIRMATIC air suspension with automatic level control and ADS
Braking system		Hydraulic dual-circuit braking system with vacuum booster, stepped master brake cylinder, ABS, BAS, front and rear internally ventilated disc brakes, foot-operated parking brake
Steering		Speed-sensitive power steering
Wheels		8.5 J x 19
Tyres		275/55 R 19

Dimensions and weights

Wheelbase	mm	3075
Track width front/rear	mm	1645/1648
Overall length	mm	5088
Overall width	mm	1920
Overall height on-road	mm	1840
Ground clearance	mm	Max. 307
Overhang front/rear	mm	870/1143
Angle of approach/departure front/rear	Degrees°	Max. 33/27
Ramp angle	Degrees°	Max. 23
Fording depth	mm	600
Turning circle	m	12.1
Boot capacity	l	300 - 2300
Kerb weight acc. to DIN (EC*)	kg	2355 (2430)
Payload acc. to DIN (EC)	kg	795 (720)
Gross vehicle weight	kg	3150 (five-seater), 3250 (seven-seater)
Towing capacity with/without trailer brake	kg	3500 750
Tank capacity/reserve	l	100/13

Performance and fuel consumption**

Acceleration 0–100 km/h	s	7.6
Max. speed	km/h	235
Fuel consumption	l/100 km	13.3
Combined		

* According to 1992/21/EG, in standard specification incl. driver (68 kg), luggage (7kg) and 90% full tank

** Preliminary figures

Mercedes-Benz GL 500

Page 47

Engine

No. of cylinders/arrangement		8/V, 4 valves per cylinder
Displacement	cc	5461
Bore x stroke	mm	98 x 90.5
Rated output	kW/hp	285/388 at 6000 rpm
Rated torque	Nm	530 at 2800-4800 rpm
Compression ratio		10.7 : 1
Mixture formation		Microprocessor-controlled fuel injection, HFM

Power transfer

Transmission		Electronically controlled, 7G-TRONIC seven-speed automatic transmission with torque converter lockup and DIRECT SELECT
Drive system		4MATIC permanent four-wheel drive , ESP [®] , 4ETS; two-speed transfer case with multiple-disc limited slip differential lock (up to 100%) and multiple-disc limited slip differential lock at the rear axle (up to 100%)
Torque distribution front axle/rear axle		50:50
Gear ratio reduction	i=	2.93
Final drive	i=	3,70
Gear ratios, i=	1st gear	4.38
	2nd gear	2.86
	3rd gear	1.92
	4th gear	1.37
	5th gear	1.00
	6th gear	0.82
	7th gear	0.73
	Reverse	3.42

Chassis

Front axle		Double wishbone suspension, anti-dive, pneumatic springs, torsion bar stabiliser, gas-pressure shock absorbers
Rear axle		Four-link suspension, anti-squat and anti-dive, pneumatic springs, torsion bar stabiliser, gas-pressure shock absorbers
Suspension		AIRMATIC air suspension with automatic level control and ADS
Braking system		Hydraulic dual-circuit braking system with vacuum booster, stepped master brake cylinder, ABS, BAS, front and rear internally ventilated disc brakes, foot-operated parking brake
Steering		Speed-sensitive power steering
Wheels		8.5 J x 19
Tyres		275/55 R 19

Dimensions and weights

Wheelbase	mm	3075
Track width front/rear	mm	1645/1648
Overall length	mm	5088
Overall width	mm	1920
Overall height on-road	mm	1840
Ground clearance	mm	Max. 307
Overhang front/rear	mm	870/1143
Angle of approach/departure front/rear	Degrees°	Max. 33/27
Ramp angle	Degrees°	Max. 23
Fording depth	mm	600
Turning circle	m	12.1
Boot capacity	l	300 - 2300
Kerb weight acc. to DIN (EC*)	kg	2370 (2445)
Payload acc. to DIN (EC)	kg	780 (705)
Gross vehicle weight	kg	3150 (five seater), 3250 (seven seater)
Towing capacity with/without trailer brake	kg	3500 750
Tank capacity/reserve	l	100/13

Performance and fuel consumption**

Acceleration 0–100 km/h	S	6.6
Max. speed	km/h	240
Fuel consumption combined	l/100 km	13.9

* According to 1992/21/EG, in standard specification incl. driver (68 kg), luggage (7kg) and 90% full tank

** Preliminary figures