

## dimensions (mm)

A Wheelbase	3020	3320	3620	4220	4820
C Rear overhang (day cab)	1535	1685	1885	2285	2685
Rear overhang (sleeper cab)	-	1685	1485	1885	2285
D Overall length (day cab)	6025	6565	7065	8065	9065
Overall length (sleeper cab)	-	6565	6665	7665	8665
E Frame height at rear axle (steel susp. unladen)	870	870	870	870	870
Frame height at rear axle (air susp. unladen)	-	-	829	829	829
G Back of cab to end of frame (day cab)	4285	4735	5235	6235	7235
Back of cab to end of frame (sleeper cab)	-	4135	4235	5235	6235
H Bumper to back of cab (day cab)	1650	1650	1650	1650	1650
Bumper to back of cab (sleeper cab)	-	2250	2250	2250	2250
I Cab rear to front axle (day cab)	270	270	270	270	270
Cab rear to front axle (sleeper cab)	-	870	870	870	870
Ground clearance front	187	187	187	187	187
Ground clearance rear	170	170	170	170	170
Frame width (at rear)	850	850	850	850	852
Turning circle (wall to wall) m	12.3	13.2	14.1	16.0	17.8

Minimum cab gap: Day Cab = 100mm, Sleeper Cab = 80mm

## weights (kg)

	816/818				
Wheelbase	3020	3320	3620	4220	4820
<b>Kerb Weights (Steel Suspension)*</b>					
Front axle	2481	2483	2485	2497	2459
Rear axle	881	899	937	975	1073
Total	3362	3382	3422	3472	3532
<b>Plated Weights</b>					
GVW	7490	7490	7490	7490	7490
GTW (overrun brakes)	10990	10990	10990	10990	10990
GTW (full airbrakes)	18000	18000	18000	18000	18000
Front axle**	3400	3400	3400	3400	3400
Rear axle	5000	5000	5000	5000	5000

\* 822 adds 100kg to total kerb weight, 824 adds 290kg including 3.8t front axle

\*\*Front axle plating 3800kg on 824

Weights and dimensions are to standard specification with 20 litres of fuel, 5 litres of AdBlue, oil, water, tools, front and rear underride guards, chassis side guards, rear wings and spray suppression. Kerb weights are subject to a manufacturing tolerance of  $\pm 2\%$ .

The right is reserved to alter specification or equipment without notice.



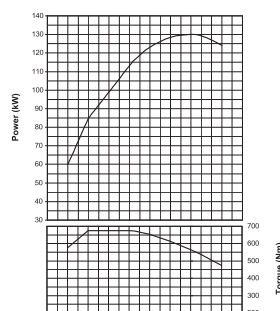
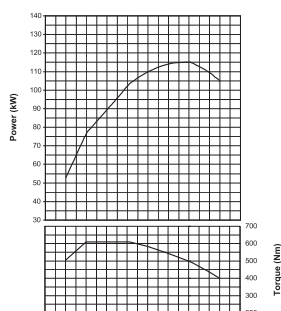


816  
818  
822  
824

## engine

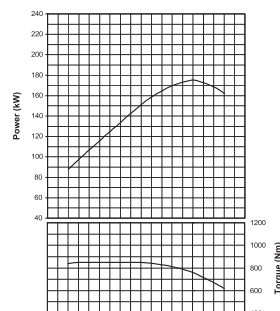
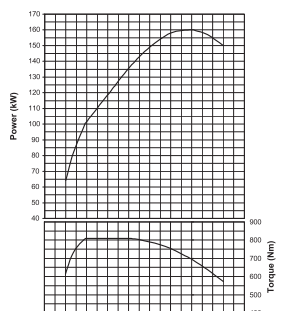
	816	818
<b>Type</b>	<b>Mercedes-Benz OM904LA</b> <b>4.25 litre turbo-intercooled</b> <b>4 cylinder direct injection diesel</b>	
<b>Max. power</b> @ 2200 rpm	<b>115kW</b> 156PS	<b>130kW</b> 177PS
<b>Max. torque</b> @ 1200 - 1600 rpm	610Nm 450lbft	675Nm 498lbft
<b>Bore</b>	102mm	
<b>Stroke</b>	130mm	
<b>Capacity</b>	4.25 litres	
<b>Control</b>	Electronic engine management	
<b>Fuel Injection</b>	Direct injection via unit injectors	
<b>Cooling</b>	Water cooled with viscous fan	
<b>Exhaust</b>	Stainless steel with SCR catalytic converter on RHS	
<b>Immobiliser</b>	Standard	

### Performance Curves



	822	824
<b>Type</b>	<b>Mercedes-Benz OM924LA</b> <b>4.8 litre turbo-intercooled</b> <b>4 cylinder direct injection diesel</b>	<b>Mercedes-Benz OM906LA</b> <b>6.37 litre turbo-intercooled</b> <b>6 cylinder direct injection diesel</b>
<b>Max. power</b> @ 2200 rpm	<b>160kW</b> 218PS	<b>175kW</b> 238PS
<b>Max. torque</b>	810Nm @ 1400 - 1600 rpm 597lbft @ 1400 - 1600 rpm	850Nm @ 1200 - 1600 rpm 626lbft @ 1200 - 1600 rpm
<b>Bore</b>	106mm	102mm
<b>Stroke</b>	136mm	130mm
<b>Capacity</b>	4.8 litres	6.37 litres
<b>Control</b>	Electronic engine management	
<b>Fuel Injection</b>	Direct injection via unit injectors	
<b>Cooling</b>	Water cooled with viscous fan	
<b>Exhaust</b>	Stainless steel with SCR catalytic converter on RHS	
<b>Immobiliser</b>	Standard	

### Performance Curves





# transmission

## Gearbox & Ratios

Model	816/818	822/824
Type	MB G56-6 6-speed synchromesh	MB G85-6 6-speed synchromesh
1st	6.29	6.70
2nd	3.48	3.81
3rd	2.10	2.29
4th	1.38	1.48
5th	1.00	1.00
6th	0.79	0.73
Reverse	6.29	6.29

## Axles

Front	- type	Mercedes-Benz drop centre 'I' beam
	- capacity	3400kg, 3800kg (824)
Rear	- type	Mercedes-Benz hypoid
	- capacity	5000kg

## Clutch

Type	Hydraulically operated single dry plate	
Diameter	362mm (816/818)	395mm (822/824)

# chassis

## Brakes

Front/Rear	Disc brakes (335mm dia)
Service	Dual circuit air system Self adjusting Air dryer
Secondary/Parking	Progressive rear spring brake actuators
Load sensing	Rear axle
ABS	Standard
Engine Brake	Optional

## Suspension

Front axle:	Parabolic leaf springs Double acting shock absorbers Stabiliser
Rear axle:	Parabolic dual rate leaf springs Double acting shock absorbers Stabiliser
Rear axle: (Optional)	2 bag air suspension Single leaf guide spring Control valve +120mm, - 80mm Double acting shock absorbers Stabiliser Electronic level adjustment

## Steering

Type	Recirculating ball Integral power assistance Variable ratio Steering column lock Adjustable column
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## Tanks

	Capacity (litres)	Position
Fuel Tank	125 plastic	RHS
AdBlue Tank	25	RHS
	Lockable caps	

## Rear Axle Ratios & Performance

Model	816	818	822	824
Standard Axle Ratio	3.636:1	3.636:1	3.909:1	3.909:1
Geared Speed (mph)	76	76	76	79
Engine revs at 70 mph	2290	2290	2290	2200
Gradeability 1st gear rolling	42%	49%	+50%	+50%
Optional Axle Ratio	3.909:1	3.909:1	4.300:1	4.300:1
Geared Speed (mph)	71	71	69	72
Engine revs at 70 mph	2470	2470	2520	2420
Gradeability 1st gear rolling	45%	+50%	+50%	+50%

Other axle ratios may be available on request

## Wheels & Tyres

Wheels	6.00 x 17.5	6.75 x 17.5 (824)
Tyres	215/75R 17.5	235/75R 17.5 (824)
Spare Wheel and Carrier	Optional	
Wheel Nut Covers	Standard	

## Electrical Systems (featuring CAN bus technology)

Voltage	24 volt, negative earth
Battery	2 x 12 volt, 115Ah
Alternator	28 volt/80 amp

## Protection & Finish

Paint	Gloss paint finish Nova grey chassis Silver wheels
Underbody	Seam and cavity sealing Underbody sealing Part galvanised panels Plastic wings Plastic trim panels
Entry steps	Non-slip metal

## General

2 piece ladder frame, high tensile steel  
Channel section sidemembers  
Z section cab mounting frame  
Rear wings  
Front and rear spray suppression  
Front, side and rear underride guards

# cab

<b>Standard cab</b>	Day (S)
<b>Mounting</b>	4 point
<b>Tilting</b>	Hydraulic
<b>Dashboard</b>	Distribution
<b>Windows in rear wall</b>	Optional
<b>Nets on rear wall</b>	Standard
<b>Switch and wiring for body interior light</b>	Standard

(see separate Atego Cab Sheet CV 528 for full details)

<b>Driver seat</b>	Non-suspended
<b>Passenger seat</b>	Non-suspended
<b>Centre seat</b>	Standard
<b>Parking brake control</b>	On console beside driver seat
<b>Ventilation air filter</b>	Pollen filter

## options

### Chassis

Vertical exhaust tailpipe behind cab  
3.8 tonne front axle  
Rear axle air suspension  
Heavy duty rear stabiliser  
Drawbar package (not with G56-6 speed gearbox)  
180 litre fuel tank (not with 3020mm wheelbase)  
Spare wheel, tyre and carrier  
Chassis side guards behind rear axle  
50 litre lockable storage box on chassis (not with 3020mm wheelbase)  
Rear closing cross member  
Deletion of rear frame extension  
Deletion of rear underride guard  
Deletion of rear wings and spray suppression

### Driveline

Higher capacity air compressor  
G60-6 speed gearbox (only with 816 or 818, and only with drawbar package or Telligent AutoTrans)  
G131-9 speed gearbox with 2.923 rear axle ratio (824 only)  
Telligent AutoTrans (only with 6-speed gearbox)  
Differential lock  
ASR  
Various PTOs  
Speedline cast aluminium wheels

### Brakes

Heated brake air dryer  
Aluminium air reservoirs  
Telligent braking system with ABS (and ASR)

### Cab

Day cab with extended rear wall (SE)  
Windows in cab rear wall  
Night heater in day cab  
Radio / Cassette  
Air conditioning  
Driver's airbag (only with air suspension driver seat)  
Central locking  
Air suspension seats  
Deletion of centre seat  
Vinyl covered seats (not with centre seat)  
Heated windscreen  
Tinted glass  
Long Distance dashboard with parking brake on dashboard (not with centre seat)  
Comfort dashboard (not with centre seat and only with Telligent AutoTrans or 9-speed gearbox)  
Wood trim on instrument panel  
Additional sockets in cab  
External sun visor - transparent  
Sleeper cab with single bed (L)  
High roof sleeper cab with one or two beds (LR)  
Rear side windows in sleeper cab  
Four man bench seat in lieu of bed in sleeper cab, including seat belts, side windows and tip up single passenger seat  
Electric glass sunroof (only with high roof sleeper cab)  
Roof air deflector  
Air horns on cab roof

### Engine

Constant throttle engine brake  
165Ah batteries  
100 amp alternator

### Electrics

Headlamp washers  
Halogen fog lights - front  
Audible reverse warning