

dimensions (mm)

Wheelbase	3900
Frame height at rear axle (unladen)	1015
Ground clearance front	277
Ground clearance rear	248
Cab tilt angle	70°
Turning circle (wall to wall) m	15.5
Recommended 5th wheel position	840
Frame width at rear	758

Overall height dimension shows the range of adjustment of the air deflector
- For MegaSpace cab the range is 3870-4030.

weights (kg)

Kerb Weights	V6	V8
Front axle	5105	5325
Rear axle	2685	2715
Total	7790	8040

Plated Weights	UK Authorised		C&U	Design
Front axle	7100	7100	7100	7100
Mid axle	7100	6500	6500	7100
Rear axle	11500	10500	10500	11500
GVW	23400	23400	22360	25000
GCW	40000	44000	38000	44000

Weights and dimensions shown are for Long Distance specification with a high roof sleeper cab.

Weights and dimensions are to standard specification with 20 litres of fuel, 5 litres of AdBlue, oil, water and tools.

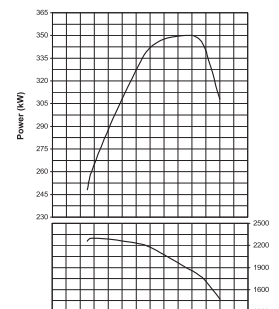
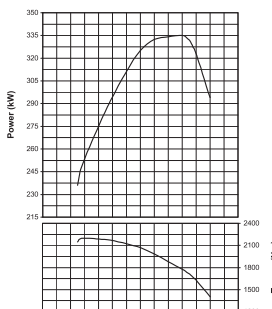
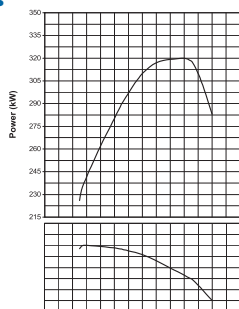
Kerb weights are subject to a manufacturing tolerance of $\pm 2\%$. The right is reserved to alter specification or equipment without notice.



engine

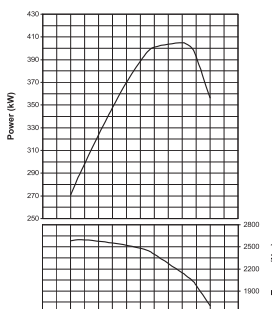
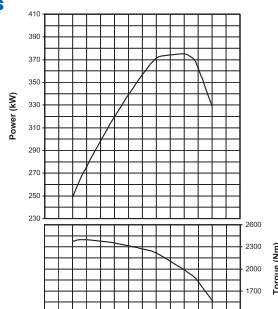
	2544LS	2546LS	2548LS
Type		Mercedes-Benz OM501LA 12 litre turbo-intercooled 4 valves per cylinder V6 direct injection diesel	
Max. power @ 1800 rpm	320kW 435PS	340kW 456PS	350kW 476PS
Max. torque @ 1080 rpm	2100Nm 1549lbft	2200Nm 1623lbft	2300Nm 1696lbft
Bore		130mm	
Stroke		150mm	
Capacity		11.95 litres	
Control		Telligent electronic engine management	
Fuel Injection		Direct injection via unit injectors	
Cooling		Water cooled with electromagnetic fan	
Security		Immobiliser to Thatcham H2	
Engine brake		Constant throttle & butterfly	
Exhaust		Stainless steel with SCR catalytic converter	

Performance Curves



	2551LS	2555LS
Type		Mercedes-Benz OM502LA 16 litre turbo-intercooled 4 valves per cylinder V8 direct injection diesel
Max. power @ 1800 rpm	375kW 510PS	405kW 551PS
Max. torque @ 1080 rpm	2400Nm 1770lbft	2600Nm 1918lbft
Bore		130mm
Stroke		150mm
Capacity		15.93 litres
Control		Telligent electronic engine management
Fuel Injection		Direct injection via unit injectors
Cooling		Water cooled with electromagnetic fan
Security		Immobiliser to Thatcham H2
Engine brake		Constant throttle & butterfly
Exhaust		Stainless steel with SCR catalytic converter

Performance Curves





transmission

Gearbox & Gearbox Ratios

Mercedes PowerShift – fully automated 12 speed constant mesh gearbox.

	440		460, 480, 510, 550	
	G211	G281	G211	G281
1st	14.93	14.93	9th	2.05
2nd	11.67	11.64	10th	1.60
3rd	9.93	9.02	11th	1.28
4th	7.06	7.03	12th	1.00
5th	5.63	5.64	1st Reverse	14.93
6th	5.37	4.40	2nd Reverse	11.67
7th	3.39	3.39	3rd Reverse	3.39
8th	2.65	2.65	4th Reverse	2.65

Clutch

Type	Automatically actuated single dry plate clutch
Diameter	430mm

Axles

Front	Mercedes-Benz 'I' beam
Rear Bogie	Mercedes-Benz single reduction Cross-axle differential lock

chassis

Brakes

Front/Rear Service	Disc brakes Telligent electro-pneumatic braking Dual circuit air 10 bar operating pressure Load sensing Automatic brake adjustment Heated air dryer Anti-lock brakes ASR traction control Hill hold feature
Secondary Parking	Front, rear and trailer Front/rear spring brakes Hand control operation
Trailer Exhaust brake	Two line Linked to foot brake

Steering

Type	Recirculating ball Variable ratio Integral power assistance Steering column adjustable for height and rake Steering column lock
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Fuel Tank

Fuel	Capacity (litres)	Position
Long Dist AdBlue	450 aluminium	RHS
	40	LHS
	Lockable caps	

Rear Axles Ratios & Performance

Engine	440	460	480	510	550
Axle Ratio	2.846	2.846	2.846	2.733	2.733
Max. geared speed (mph)	75	75	75	78	78
RPM at 90kmph (56mph)	1343	1343	1343	1289	1289
% Rolling gradeability					
44 tonne	36	37	39	39	42
Axle Ratio	3.077	3.077	3.077	2.929	2.929
Max. geared speed (mph)	69	69	69	73	73
RPM at 90kmph (56mph)	1452	1452	1452	1382	1382
% Rolling gradeability					
44 tonne	39	40	42	42	46
Axle Ratio				3.154	3.154
Max. geared speed (mph)				68	68
RPM at 90kmph (56mph)				1488	1488
% Rolling gradeability					
44 tonne				45	49

Wheels & Tyres

Wheels	8.25 x 22.5
Tyres	295 / 80R 22.5

Suspension

Front axle	Parabolic leaf springs Double acting shock absorbers Stabiliser
Midlift axle	Full air with lift and dump facilities
Rear axle	2 bag full air with electronic modulation Double acting shock absorbers Stabiliser

Electrical Systems

Voltage	24 volt Negative insulated return
Batteries	2 x 12 volt, 220Ah
Electrical Distribution System	Circuit breaker protection
Alternator	28 volt/80 amp
Road lights	Halogen headlamps Reversing lights Rear fog lamp

General

Catwalk
Gantry with suzies and electrical connections
5th wheel mounting angles
Three piece rear wings
Just JSK 36 fixed 5th wheel
Coupling lamp
Front underrun protection

options

Description	Weight Adjustments		
	Front	Rear	Total
Driveline			
PTO single outlet heavy duty (slow/med/fast)	+25	+5	+30
PTO twin outlet heavy duty (slow/med/fast)	+35	+5	+40
PTO single outlet light duty (pump or flange mounting)	+10	0	+10
Speedline wheels 8.25 x 22.5*	-25	-80	-105
9.00 x 22.5*	-30	-100	-130
Alcoa wheels 8.25 x 22.5*	-35	-100	-135
9.00 x 22.5*	-40	-120	-160
16 speed Mercedes PowerShift gearbox	0	0	0
16 speed manual/Telligent gearbox	+10	0	+10
Chassis			
7.5 tonne front axle incl. 315/80R front tyres and 9.00 x 22.5 steel rims	+20	0	+20
8 tonne front axle incl. 315/80R front tyres and 9.00 x 22.5 steel rims	+40	0	+40
Jost slider ilo fixed	+20	+80	+100
Brakes			
Aluminium air tanks	-15	-15	-30
Cab			
MegaSpace cab	+230	0	+230

*In lieu of same size steel rims.

Component weights are provided as a guide but may vary according to production tolerances

NOTE:

For cab options please see the separate Actros Cab Specification Sheet CV 700