

dimensions (mm)

A Wheelbase	3600	3900
D Overall length	5817	6117
Frame height at front axle (unladen)	1010	1010
Frame height at front axle (laden)	942	942
Frame height at rear axle (unladen)	1002	1002
Frame height at rear axle (laden)	977	977
G Gantry to end of frame	3429	3729
Ground clearance front	277	277
Ground clearance rear	277	277
Cab tilt angle	70°	70°
Turning circle (wall to wall) m	14.9	15.8
Recommended 5th wheel position:		
Full length trailers	540	840
Other trailers	640	740
Frame width at rear	758	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	
	Wheelbase mm	3600	3900	3600
Front axle	5050	5050	5333	5328
Rear axle	1850	1860	1972	2003
Total	6900	6910	7305	7331

Plated Weights	UK Authorised	C&U	Design
	Front axle	7100	7100
Rear axle	11500	10500	11500
GVW	18000	17000	18000
GCW	40000	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 ±2%. The right is reserved to alter specification or equipment without notice.

Additional options are available on request, including alternative engines.



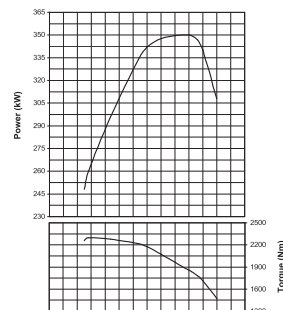
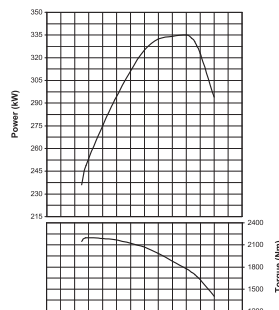
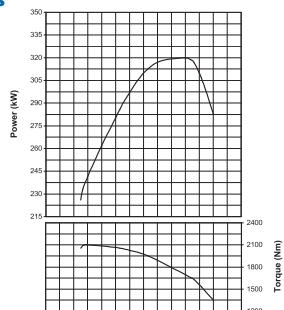


1844LS
1846LS
1848LS
1851LS
1855LS
1860LS

engine

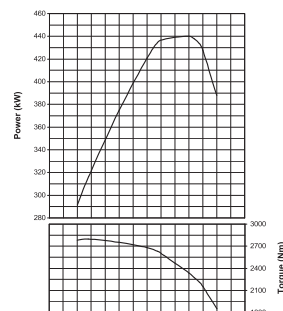
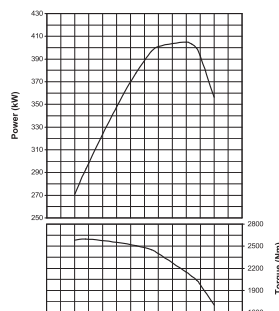
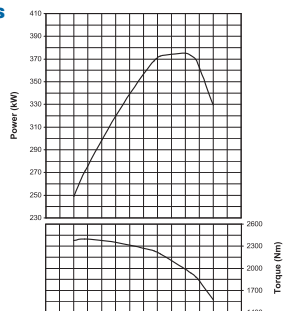
	1844LS	1846LS	1848LS
Type	Ω	Mercedes-Benz OM501LA 12 litre turbo-intercooled 4 valves per cylinder V6 direct injection diesel	
Max. power @ 1800 rpm	320kW 435PS	335kW 456PS	350kW 476PS
Max. torque @ 1080 rpm	2100Nm 1549lbft	2200Nm 1623lbft	2300Nm 1696lbft
Bore		130mm	
Stroke		150mm	
Capacity		11.95 litres	
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



	1851LS	1855LS	1860LS
Type		Mercedes-Benz OM502LA 16 litre turbo-intercooled 4 valves per cylinder V8 direct injection diesel	
Max. power @ 1800 rpm	375kW 510PS	405kW 551PS	440kW 598PS
Max. torque @ 1080 rpm	2400Nm 1770lbft	2600Nm 1918lbft	2800Nm 2065lbft
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, 600	
	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

Rear Axles Ratios & Performance

Engine	440	460	480	510	550	600
Axle Ratio	2.533	2.533	2.533	2.733	2.733	2.733
Max. geared speed (mph)	84	84	84	78	78	78
RPM at 90kmph (56mph)	1195	1195	1195	1289	1289	1289
% Rolling gradeability						
40 tonne	35	36	38	43	47	+50
Axle Ratio	2.846	2.846	2.846	2.929	2.929	2.929
Max. geared speed (mph)	75	75	75	73	73	73
RPM at 90kmph (56mph)	1343	1343	1343	1382	1382	1382
% Rolling gradeability						
40 tonne	39	41	43	46	+50	+50
Axle Ratio	3.077	3.077	3.077	3.154	3.154	3.154
Max. geared speed (mph)	69	69	69	68	68	68
RPM at 90kmph (56mph)	1452	1452	1452	1488	1488	1488
% Rolling gradeability						
40 tonne	42	45	47	50	+50	+50

chassis

Brakes

Front/Rear Service	Disc brakes Telligent electro-pneumatic braking Dual circuit air 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
V6	650 aluminium	RHS
V8	450 aluminium	RHS
AdBlue	85 Lockable fuel cap	RHS

Wheels & Tyres

Wheels	8.25 x 22.5
Tyres	295 / 80R 22.5

Suspension

Front axle	Parabolic leaf springs Double acting shock absorbers Stabiliser
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
Jost 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	-55	-80
9.00 x 22.5*	-30	-65	-95
Alcoa wheels 8.25 x 22.5*	-35	-65	-100
9.00 x 22.5*	-40	-80	-120
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
9 tonne front axle	+17	0	+17
Front air suspension	+30	0	+30
Jost slider ilo fixed	+20	+80	+100
Low mounted brake and electrical suzies	-	-	-
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