

dimensions (mm)

Wheelbase	3300
Frame height at rear axle (unladen)	1025
Frame height at rear axle (laden)	1000
Ground clearance front	258
Ground clearance rear	230
Cab tilt angle	70°
Turning circle (wall to wall) m	16
Recommended 5th wheel position from centre line of bogie*	410
Frame width at rear	760

* It may be possible to move the 5th wheel forward with non ISO trailers
For 16.5m operation pin to end of trailer must not exceed 11.49m

weights (kg)

Kerb Weights	
Front axle	4982
Rear axle	3246
Total	8228

Plated Weights	UK Authorised	C&U	Design
Front axle	7100	7100	7100
Rear bogie	19000	18300	19000
GVW	26000	24390	26000
GCW	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.

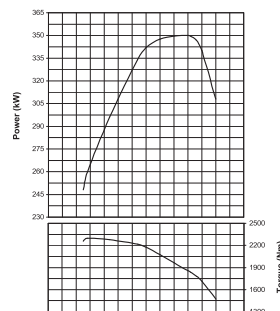
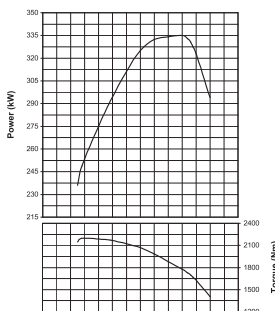
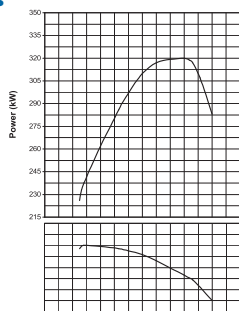
Kerb weights are subject to a manufacturing tolerance of $\pm 2\%$. The right is reserved to alter specification or equipment without notice.



engine

	2644LS	2646LS	2648LS
Type		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





transmission

Gearbox & Gearbox Ratios

Mercedes PowerShift – fully automated 12 speed constant mesh gearbox.

	440		460, 480	
	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	Mercedes-Benz single reduction Cross-axle differential lock

chassis

Brakes

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

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

	Capacity (litres)	Position
Fuel	400 aluminium	RHS
AdBlue	35 Lockable caps	RHS

Suspension

Front axle	Parabolic leaf springs Double acting shock absorbers Stabiliser
Rear axle Air	Full air with electronic modulation

Rear Axle Ratios & Performance

	440	460	480
Engine	440	460	480
Axle Ratio	2.733	2.733	2.733
Max. geared speed (mph)	76	76	76
RPM at 90kmph (56mph)	1327	1327	1327
% Rolling gradeability			
44 tonne	35	37	39
Axle Ratio	2.929	2.929	2.929
Max. geared speed (mph)	71	71	71
RPM at 90kmph (56mph)	1422	1422	1422
% Rolling gradeability			
44 tonne	38	40	41
Axle Ratio	3.154	3.154	3.154
Max. geared speed (mph)	66	66	66
RPM at 90kmph (56mph)	1532	1532	1532
% Rolling gradeability			
44 tonne	41	43	45

Other ratios are available depending on drive-train configuration

Wheels & Tyres

Wheels	9.00 x 22.5
Tyres	315 / 70R 22.5

Electrical Systems

Voltage	24 volt Negative insulated return
Batteries	2 x 12 volt 165Ah
Electrical Distribution System	Circuit breaker protection
Alternator	28 volt/80 amp
Road lights	Halogen headlamps Side lights Front fog lamp Roof marker lights Side marker lights Reversing lights Direction indicators Indicator side repeaters Rear fog lamp
Warning lights	Emergency stop Main beam/ flasher Direction indicators Parking brake Rear fog lamp Hazard lights Cab tilt lock Engine break Differential lock

General

Catwalk, step and coupling lamp
Gantry with suzies and electrical connections
5th wheel mounting angles
Jost fifth wheel
Three piece rear wings
Front underrun protection

options

Description	Weight Adjustments		
	Front	Rear	Total
Driveline			
Speedline wheels 9.00 x 22.5	-30	-120	-150
Alcoa polished wheels 9.00 x 22.5	-38	-152	-190
Alcoa diamond cut wheels 9.00 x 22.5	-38	-152	-190
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 mounting)	+10	0	+10
Telligent gearshift	0	0	0
Chassis			
8 tonne front axle	+20	0	+20
9 tonne front axle	+75	0	+75
Brakes			
Aluminium air tanks	-15	-15	-30
Electronics			
100 Amp alternator	0	0	0
Voith hydraulic retarder	+60	+40	+100
PSM	0	0	0
Cotel compatible PSM	0	0	0
Cab			
Day cab	-210	0	-210
MegaSpace cab	+230	0	+230

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