

## dimensions (mm)

	STEEL (S)	AIR (LS)
Wheelbase	3300	3300
Frame height at rear axle (unladen)	1110	1060
Frame height at rear axle (laden)	1000	1030
Ground clearance front	285	285
Ground clearance rear	230	230
Cab tilt angle	70°	70°
Turning circle (wall to wall) m	16	16
Recommended 5th wheel position from centre line of bogie.*	410	410
Frame width at rear	757	757

\* 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	V6 S	V8 S	V6 LS	V8 LS
Front axle	4885	5215	4885	5215
Rear axle	3755	3715	3575	3535
Total	8640	8930	8460	8750

Plated Weights	UK Authorised S	UK Authorised LS	C&U	Design
Front axle	7500	7500	7500	7500
Rear bogie	19000	17000	18300	19000
GVW	26000	24500	24390	26000
GCW	40000	44000	38000	57000

Special types GCW 80,000

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.

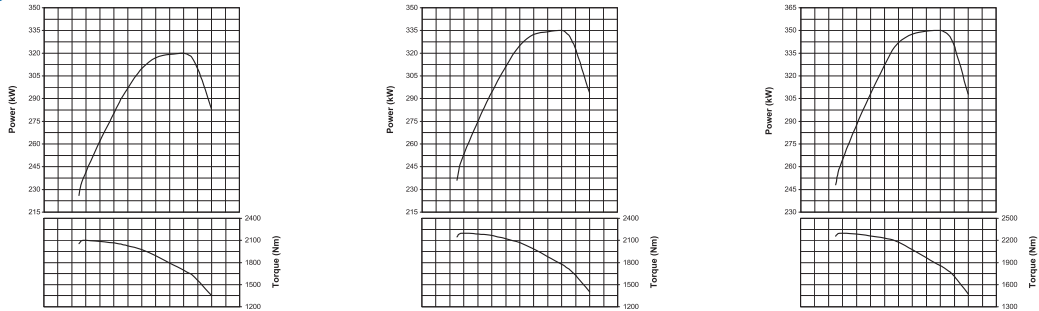
Kerb weights are subject to a manufacturing tolerance of ±2%. The right is reserved to alter specification or equipment without notice.



# engine

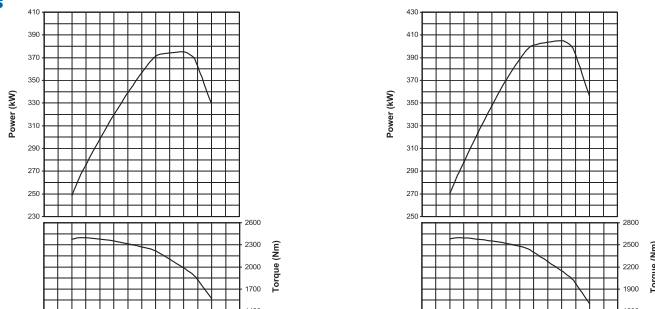
Type	2644(L)S	2646(L)S	2648(L)S
		Mercedes-Benz OM501LA 12 litre turbo-intercooled 4 valves per cylinder V6 direct injection diesel	
<b>Max. power @ 1800 rpm</b>	320kW 435PS	335kW 456PS	350kW 476PS
<b>Max. torque @ 1080 rpm</b>	2100Nm 1549lbft	2200Nm 1623lbft	2300Nm 1696lbft
<b>Bore</b>		130mm	
<b>Stroke</b>		150mm	
<b>Capacity</b>		11.95 litres	
<b>Control</b>		Telligent electronic engine management	
<b>Fuel Injection</b>		Direct injection via unit injectors	
<b>Cooling</b>		Water cooled with electromagnetic fan	
<b>Security</b>		Immobiliser to Thatcham H2	
<b>Engine brake</b>		Constant throttle & butterfly	
<b>Exhaust</b>		Stainless steel with SCR catalytic converter	

**Performance Curves**



Type	2651(L)S	2655(L)S
	Mercedes-Benz OM502LA 16 litre turbo-intercooled 4 valves per cylinder V8 direct injection diesel	
<b>Max. power @ 1800 rpm</b>	375kW 510PS	405kW 551PS
<b>Max. torque @ 1080 rpm</b>	2400Nm 1770lbft	2600Nm 1918lbft
<b>Bore</b>	130mm	
<b>Stroke</b>	150mm	
<b>Capacity</b>	15.93 litres	
<b>Control</b>	Telligent electronic engine management	
<b>Fuel Injection</b>	Direct injection via unit injectors	
<b>Cooling</b>	Water cooled with high capacity fan for STGO	
<b>Security</b>	Immobiliser to Thatcham H2	
<b>Engine brake</b>	Constant throttle & butterfly	
<b>Exhaust</b>	Stainless steel with SCR catalytic converter	

**Performance Curves**





# transmission

## Gearbox & Gearbox Ratios

Mercedes PowerShift – fully automated 12 speed constant mesh gearbox.

G330	440,460, 480, 510, 550	
	G330	G330
<b>1st</b>	11.64	<b>9th</b> 1.60
<b>2nd</b>	9.02	<b>10th</b> 1.24
<b>3rd</b>	7.03	<b>11th</b> 1.00
<b>4th</b>	5.45	<b>12th</b> 0.78
<b>5th</b>	4.40	<b>1st Reverse</b> 12.74
<b>6th</b>	3.41	<b>2nd Reverse</b> 9.90
<b>7th</b>	2.65	<b>3rd Reverse</b> 2.90
<b>8th</b>	2.05	<b>4th Reverse</b> 2.25

## Clutch

<b>Type</b>	Automatically actuated single dry plate clutch
<b>Diameter</b>	430mm
<b>Maximum GCW</b>	60t with single plate clutch
<b>Maximum GCW</b>	120t with optional twin plate clutch

## Axles

<b>Front</b>	Mercedes-Benz 'I' beam
<b>Rear Bogie</b>	Mercedes-Benz hub reduction Inter-axle and cross-axle differential lock

# chassis

## Brakes

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

## Steering

<b>Type</b>	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
<b>Fuel</b>	400 aluminium V6 300 aluminium V8	RHS RHS
<b>AdBlue</b>	85 V6 35 V8 Lockable caps	RHS RHS

## Suspension

<b>Front axle</b>	Parabolic leaf springs Double acting shock absorbers Stabiliser
<b>Rear axle Steel</b>	Two spring bogie Double acting shock absorbers Stabiliser
<b>Rear axle Air</b>	Full air with electronic modulation

Engine	440	460	480	510	550
<b>Axle Ratio</b>	3.714	3.714	3.714	3.714	3.714
<b>Max. geared speed (mph)</b>	77	77	77	77	77
<b>RPM at 90kmph (56mph)</b>	1309	1309	1309	1309	1309
<b>% Rolling gradeability</b>					
<b>44 tonne</b>	33	35	36	38	41
<b>80 tonne</b>	18	19	19	20	22

<b>Axle Ratio</b>	4.143	4.143	4.143	4.143	4.143
<b>Max. geared speed (mph)</b>	69	69	69	69	69
<b>RPM at 90kmph (56mph)</b>	1460	1460	1460	1460	1460
<b>% Rolling gradeability</b>					
<b>44 tonne</b>	37	39	41	42	46
<b>80 tonne</b>	20	21	22	23	25

<b>Axle Ratio</b>	4.333	4.333	4.333	4.333	4.333
<b>Max. geared speed (mph)</b>	66	66	66	66	66
<b>RPM at 90kmph (56mph)</b>	1527	1527	1527	1527	1527
<b>% Rolling gradeability</b>					
<b>44 tonne</b>	39	41	43	44	48
<b>80 tonne</b>	21	22	23	24	26

Other ratios are available depending on drive-train configuration

## Wheels & Tyres

<b>Wheels</b>	9.00 x 22.5
<b>Tyres</b>	315 / 80R 22.5

## Electrical Systems

<b>Voltage</b>	24 volt Negative insulated return
<b>Batteries</b>	2 x 12 volt 165Ah
<b>Electrical Distribution System</b>	Circuit breaker protection
<b>Alternator</b>	28 volt/80 amp
<b>Road lights</b>	Halogen headlamps Side lights Front fog lamp Roof marker lights Side marker lights Reversing lights Direction indicators Indicator side repeaters Rear fog lamp
<b>Warning lights</b>	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  
Three piece rear wings  
Front underrun protection

# options

Description	Weight Adjustments		
	Front	Rear	Total
<b>Driveline</b>			
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
<b>Chassis</b>			
8 tonne front axle	+20	0	+20
9 tonne front axle	+75	0	+75
Vertical tailpipe (not with sleeper cab or Euro 5 V8)	+27	0	+27
<b>Brakes</b>			
Aluminium air tanks	-15	-15	-30
<b>Electronics</b>			
100 Amp alternator	0	0	0
Voith hydraulic retarder	+60	+40	+100
PSM	0	0	0
Cotel compatible PSM	0	0	0
<b>Cab</b>			
Day cab (only with 300 litre fuel tank)	-230	0	-230
MegaSpace cab (26..LS only)	+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