

dimensions (mm)

Wheelbase	3300
Frame height at rear axle (unladen)	1135
Frame height at rear axle (laden)	1045
Ground clearance front	345
Ground clearance rear	320
Cab tilt angle	70°
Turning circle (wall to wall) m	16
Recommended 5th wheel position C&U *	410
Recommended 5th wheel position STGO	360
Frame width at rear	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	V8
Front axle	4850	5090
Rear axle	3955	3975
Total	8805	9065

Plated Weights	UK Authorised		C&U	Design
Front axle	7500	7500	7500	7500
Rear bogie	19000	17000	18300	26000
GVW	26000	24500	24390	33000
GCW	40000	44000	38000	60000

Special types GCW 120,000

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 $\pm 2\%$. The right is reserved to alter specification or equipment without notice.



engine

3346S

3348S

Type

Mercedes-Benz OM501LA
12 litre turbo-intercooled
4 valves per cylinder
V6 direct injection diesel

Max. power
@ 1800 rpm

335kW
456PS

350kW
476PS

Max. torque
@ 1080 rpm

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

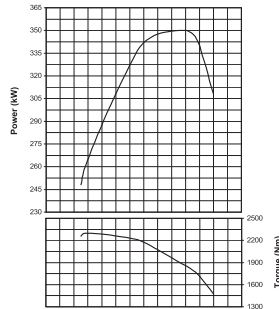
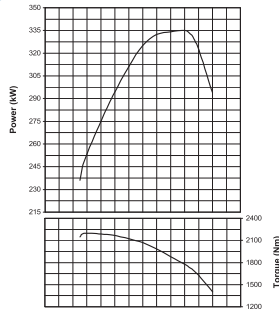
Engine brake

Constant throttle & butterfly

Exhaust

Stainless steel with SCR catalytic converter

Performance Curves



3351S

3355S

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

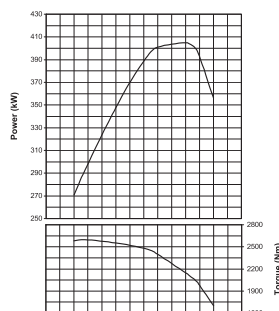
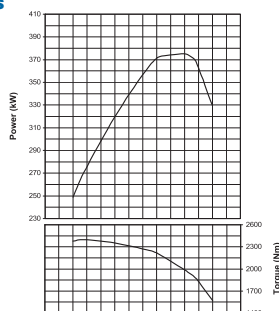
Engine brake

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.

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

Clutch

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

Axles

Front	Mercedes-Benz 'I' beam
Rear Bogie	Mercedes-Benz hub reduction Inter-axle and 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		
V6	400 steel	RHS
V8	300 steel	RHS
AdBlue		
V6	85	RHS
V8	35	RHS
	Lockable caps	

Suspension

Front axle	Parabolic leaf springs Double acting shock absorbers Stabiliser
Rear axle	Two spring bogie Double acting shock absorbers

Engine	460	480	510	550
Axle Ratio	4.143	4.143	4.143	4.143
Max. geared speed (mph)	69	69	69	69
RPM at 90kmph (56mph)	1460	1460	1460	1460
% Rolling gradeability				
80 tonne	21	22	23	25
120 tonne	13	14	15	16

Axle Ratio	4.333	4.333	4.333	4.333
Max. geared speed (mph)	66	66	66	66
RPM at 90kmph (56mph)	1527	1527	1527	1527
% Rolling gradeability				
80 tonne	22	23	24	26
120 tonne	14	15	16	17

Axle Ratio	4.833	4.833	4.833	4.833
Max. geared speed (mph)	58	58	58	58
RPM at 90kmph (56mph)	1725	1725	1725	1725
% Rolling gradeability				
80 tonne	24	26	27	29
120 tonne	16	17	17	19

Other ratios are available depending on drive-train configuration

Wheels & Tyres

Wheels	9.00 x 22.5
Tyres	315 / 80R 22.5

Electrical Systems

Voltage	24 volt Negative insulated return
Batteries	2 x 12 volt, 165Ah (Distribution) 2 x 12 volt, 220Ah (Long Distance)

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
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General

Catwalk, step and coupling lamp
Gantry with suzies and electrical connections
5th wheel mounting angles
Three piece rear wings
Front underrun protection
Twin revolving roof beacons

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			
9 tonne front axle	+75	0	+75
ZF WSK400 torque converter (for over 120 tonne operation)	+250	+100	+350
Vertical tailpipe (not with sleeper cab or Euro 5 V8)	+27	0	+27
Brakes			
Aluminium air tanks	-15	-15	-30
Electronics			
165Ah batteries	-15	-10	-25
100 Amp alternator	0	0	0
Voith hydraulic retarder	+60	+40	+100
PSM	0	0	0
Cotel compatible PSM	0	0	0

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