

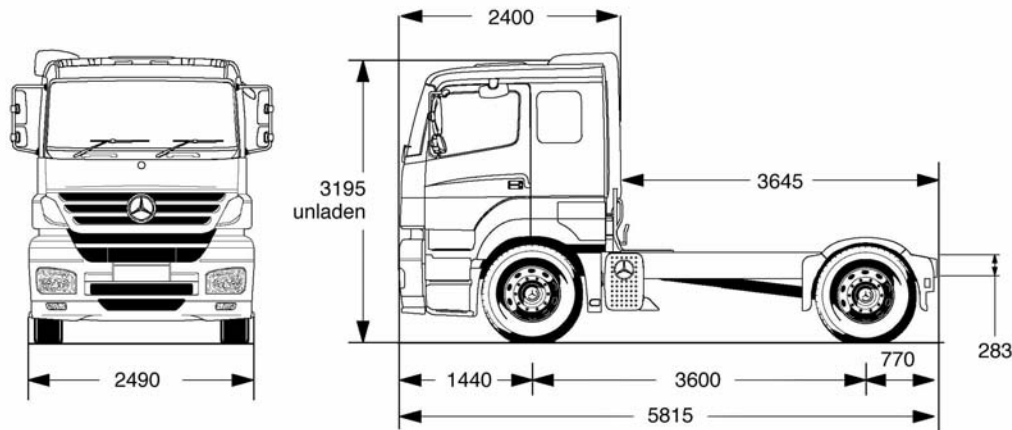
# AXOR-C

BLUETEC 4

BLUETEC 5

4x2 Tractor

1836LS  
1840LS  
1843LS



## dimensions (mm)

Wheelbase	3600 (3900 optional)
Frame height at rear axle (unladen)	980
Front ground clearance	277
Rear ground clearance	221
Cab tilt angle	67°
Turning circle (wall to wall) m	14.9
Recommended 5th wheel position (forward of rear axle centre line)	540

Full length trailers (12m pin to rear end) at max. legal length.

## weights (kg)

### Kerb Weights

Front axle	4610
Rear axle	1985
Total	6595

### Plated Weights

	UK Authorised	C&U	Design
Front axle	7100	7100	7100
Rear axle	11500	10500	11500
GVW	18000	17000	18000
GCW	40000	38000	44000

Weights and dimensions are to standard specification including fixed 5th wheel and lead-up ramps, 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.



Mercedes-Benz

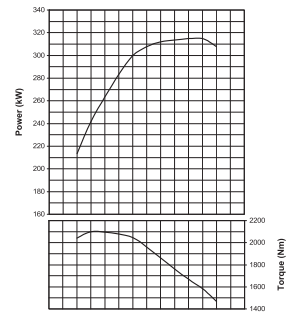
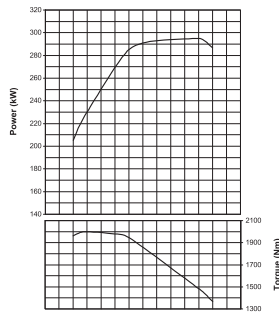
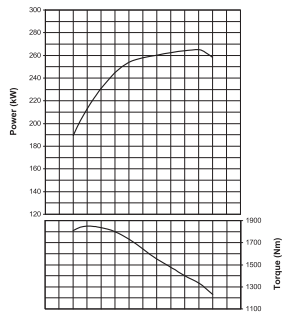


**1836LS**  
**1840LS**  
**1843LS**

# engine

Type	1836LS	1840LS	1843LS
		<b>Mercedes-Benz OM457LA</b> <b>12 litre turbo-intercooled in-line</b> <b>6 cylinder direct injection diesel</b> <b>4 valves per cylinder</b>	
<b>Max. power</b> @ 1900 rpm	265kW 360PS	295kW 401PS	315kW 428PS
<b>Max. torque</b> @ 1100 rpm	1850Nm 1365lbft	2000Nm 1475lbft	2100Nm 1550lbft
<b>Bore</b>		128mm	
<b>Stroke</b>		155mm	
<b>Capacity</b>		11.97 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





## transmission

### Gearbox & Ratios

8 speed synchromesh plus crawler gear Hydraulic gearshift with 'double H' shift pattern automated gearshift

<b>Type</b>	G221-9
<b>Crawler</b>	16.15
<b>1st</b>	10.19
<b>2nd</b>	7.16
<b>3rd</b>	5.13
<b>4th</b>	3.38
<b>5th</b>	2.66
<b>6th</b>	1.87
<b>7th</b>	1.34
<b>8th</b>	1.00
<b>Reverse</b>	14.91

### Axles

<b>Front</b>	Mercedes-Benz 'I' beam
<b>Rear</b>	Mercedes-Benz single reduction Cross-axle differential lock

### Optional Gearbox

Mercedes Powershift 12 speed constant mesh, two pedal automated gearshift

<b>Type</b>	G211-12
<b>Forward</b>	
<b>1st</b>	14.93
<b>2nd</b>	11.67
<b>3rd</b>	9.93
<b>4th</b>	7.06
<b>5th</b>	5.63
<b>6th</b>	5.37
<b>7th</b>	3.39
<b>8th</b>	2.65
<b>9th</b>	2.05
<b>10th</b>	1.60
<b>11th</b>	1.28
<b>12th</b>	1.00
<b>Reverse</b>	
<b>1st</b>	14.93
<b>2nd</b>	11.67
<b>3rd</b>	3.39
<b>4th</b>	2.65

### Rear Axles Ratios & Performance

<b>Model</b>	<b>1836LS</b>	<b>1840LS</b>	<b>1843LS</b>
<b>Axle Ratio</b>	3.08:1	3.08:1	3.08:1
<b>Engine revs at 56mph</b>	1450	1450	1450
<b>Geared speed (mph)</b>	73	73	73
<b>Max. Gradeability % (rolling)</b>			
<b>38 tonne</b>	43	46	49
<b>40 tonne</b>	40	44	46

Alternative axle ratios may be available on request.

### Clutch

<b>Type</b>	Hydraulically operated single dry plate with air assistance
<b>Diameter</b>	430mm

## chassis

### Brakes

<b>Front/Rear</b>	Disc brakes
<b>Service</b>	Dual circuit air system Rear axle load sensing Automatic brake adjustment Heated air dryer Anti-lock brakes (ABS)
<b>Secondary</b>	Front, rear and trailer
<b>Parking</b>	Progressive front and rear spring brake actuators Hand control operation
<b>Trailer</b>	Two line
<b>Engine braking</b>	Activated by 2-stage column stalk stage 1 constant throttle stage 2 constant throttle and exhaust butterfly
<b>Optional turbo brake</b>	Replaces the exhaust butterfly and increases braking performance from 280 to 450kw (612PS)

### Steering

<b>Type</b>	Variable ratio recirculating ball Integral power assistance Steering column adjustable for height and rake Steering column lock
<b>Adjustable column</b>	70mm height, 11° angle, pneumatically locked

### Fuel Tank

	<b>Capacity (litres)</b>	<b>Position</b>
<b>Fuel</b>	450 aluminium	RHS
<b>AdBlue</b>	95 Lockable caps	RHS

### Wheels & Tyres

<b>Wheels</b>	8.25 x 22.5
<b>Tyres</b>	295 / 80R 22.5

### Suspension

<b>Front axle</b>	2 leaf parabolic springs Double acting shock absorbers Stabiliser
<b>Rear axle</b>	Full air with electronic modulation Double acting shock absorbers Stabiliser

### Electrical Systems

<b>Voltage</b>	24 volt Negative insulated return
<b>Batteries</b>	2 x 12 volt 165Ah
<b>Electrical Distribution System</b>	CAN bus technology Circuit breakers
<b>Alternator</b>	28 volt/80 amp

### General

Catwalk
Gantry with suzies and electrical connections
Three piece rear wings
Jost JSK36 fixed 5th wheel, lead-up ramps and mounting angle brackets drilled at 50mm intervals
Coupling lamp
Front underrun protection

# options

Description	Weight Adjustments		
	Front	Rear	Total
<b>Driveline</b>			
12 speed Mercedes Powershift	-40	0	-40
Turbo Brake	20	0	20
<b>PTOs</b>			
PTO flange drive NA 123-10B (slow)	45	0	45
PTO flange drive NA 123-10B (medium)	45	0	45
PTO flange drive NA 123-10B (fast)	45	0	45
Double PTO flange drive/pump mount NA 123-11b/1c (slow) inc. PSM module	55	0	55
Double PTO flange drive/pump mount NA 123-11b/1c (medium) inc. PSM module	55	0	55
Double PTO flange drive/pump mount NA 123-11b/1c (fast) inc. PSM module	55	0	55
PTO flange drive NA 121-1b (2 speed)	7	0	7
PTO for pump mounting NA 121-2c (2 speed)	10	0	10
PSM module for PTO applications	-	-	-
<b>Brakes</b>			
Aluminium air reservoirs	-15	-10	-25
<b>Chassis</b>			
7.5 tonne front axle with 315/80R front tyres	22	0	22
8 tonne front axle with 315/80R front tyres	47	0	47
Chassis side skirts - unpainted	20	20	40
400 litre aluminium fuel tank	-2	-2	-4
650 litre aluminium fuel tank	3	2	5
650 + 400 litre aluminium fuel tanks	13	12	25
Additional fuel weight necessary to fill a 400 litre fuel tank (+380 litres)	170	170	340
Additional fuel weight necessary to fill a 500 litre fuel tank (+480 litres)	215	215	430
Additional fuel weight necessary to fill a 650 litre fuel tank (+630 litres)	285	285	570
Additional fuel weight necessary to fill a 650 + 400 litre fuel tanks (+1030 litres)	465	465	930
Alcoa brushed aluminium wheels (8.25 x 22.5) - in lieu of same size steel	-30	-60	-90
Alcoa brushed aluminium wheels (9.00 x 22.5) - in lieu of same size steel wheels	-40	-80	-120
Jost SV36DR sliding 5th wheel and lead-up ramps (in lieu of fixed 5th wheel)	15	75	90
Omission of Jost JSK36 fixed 5th wheel and lead-up ramps	-35	-195	-230
Various Fontaine 5th wheels available			
Steel front bumper	20	0	20
<b>Electrics</b>			
200Ah batteries	15	10	25
100 amp alternator	-	-	-
Headlamp washers	5	0	5
Halogen front fog lights	5	0	5
Additional driving lights	5	0	5
Audible reverse warning	-	-	-

**NOTE:**

For cab options please see the separate Axor Cab Specification Sheet CV 715