

L063 (centreline of front axle to back of cab) Short – 295 Day – 590 Sleeper – 860

DIMENSIONS (mm)

L011		3300	3550	3700
L020		780	780	780
Day Cab	CG Max	690	742	770
	CG Min	517	555	575
Sleeper Cab	CG Max	674	724	751
	CG Min	499	536	555
Fifth Wheel position to suit 16.5m overall length		N/A	510	660 forward of drive axle centre line

H039 unladen	H040 laden	Chassis Height
1000 mm	970 mm	Normal (N)
878 mm	854 mm	Low (L) [†]
813 mm	787 mm	Extra Low (E) [†] – N/A with 3.3m A/D. Air suspension front and rear mandatory

[†]Both 'L' and 'E' dimensions assume '60 series' tyre fitment

CG dimension for imposed load calculated for standard model at standard GB plated weights. This dimension can be varied to suit specific trailer swing clearances but may result in a reduction in imposed load. Height dimensions measured to top of frame at rear axle centreline.

PLATED WEIGHTS – AWR

		Front Axle	Rear Axle	GVW	GTW
Design Gross	Kg	7500 [†]	11500	19000	45000
Legal Max in GB	Kg	7100 [¶]	11500	18000	40000

[†] Front axle capacity up to a maximum of 9000 kg available as option.

[¶] Legal front axle capacity limited by tyres.

Plated weights dependent on statutory tyre limitations.

CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

Axle distance	Front	Rear	Total (kg)
3300	4631	1844	6475
3550	4641	1878	6519
3700	4655	1879	6534

Chassis cab weight includes 20 litres of fuel, oil and water. Driver not included. See overleaf for option weights.

ENGINE (EURO 5)

Scania '13 litre' vertical six cylinder in-line turbocharged intercooled direct injection diesel.

'360'

Type:	DC13-114
Swept Volume:	12.74 litres
Bore:	130 mm
Stroke:	160 mm
Compression Ratio:	18:1
*Max. Power:	265kW (360 h.p.) at 1900 rev/min
*Max. Torque:	1850 Nm (1365 lbf.ft) between 1000 and 1300 rev/min

Engine Management System:	EMS – incorporating Cruise Control and speed limiter
Emission Control:	Scania SCR
Cooling:	Water cooled with rubber mounted 2 row radiator and temperature regulated fan
Coolant Capacity:	55 litres
Oil Capacity:	40 litres
Air Cleaner:	Dry replaceable paper element

Options:-

(1) Details as above except for the following:-

'400'

Type:	DC13-113
*Max. Power:	294kW (400 h.p.) at 1900 rev/min
*Max. Torque:	2100 Nm (1549 lbf.ft) between 1000 & 1300 rev/min

Cooling:	Electronically regulated fan
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(2) Provision for ED120 engine driven P.T.O.

*With fan at max. slip

CLUTCH

Type:	Single dry plate
Operation:	Air assisted with clutch wear protection

GEARBOX

Type:	Scania GRS905 fourteen speed with synchromesh on all except two crawler gears. Incorporating range change and splitter.
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Oil Capacity:	16.5 litres (17.5 litres with oil cooler)
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GEAR RATIOS

	Low Range Split		High Range Split	
	L	H	L	H
Crawler	16.41	13.28		
1st	11.32	9.16	7.19	5.82
2nd	4.63	3.75	3.02	2.44
3rd	1.92	1.55	1.24	1.00
Reverse	14.77			

Options:-

(1) Type: Scania GR905 - nine speed range change including one crawler gear.

(2) Type: Scania GRS895 as GRS905 but without crawler gears.

(3) Opticruise: Gearchange management system. Only with GRS895/905.

REAR AXLE

Type:	Scania ADA1100
Capacity:	11500 Kg
Pressed steel housing with magnetic oil drain plug.	

Options:-

(1) Type: Scania ADA1300

Capacity: 13000 kg – F950 frame mandatory, 'H' duty class only

REAR AXLE GEAR

Type:	Scania R780
Single reduction hypoid. Crown wheel and pinion matched during manufacture. Pneumatically operated differential lock.	

FRONT AXLE

Type:	Scania AM740 I section rigid beam – AMA740 if air suspension AMA860 with air suspension on 'Extra Low' chassis
Capacity:	7500Kg

Options:-

- (1)** Scania AM950 – capacity 9000 kg.
- (2)** Scania AMA860 – air only – capacity 8000 kg.
- (3)** Scania AMA950 – air only – capacity 9000 kg.

STEERING

Type:	Recirculating ball. Hydraulically assisted power steering				
Steering wheel:	Diameter 450mm. Lock to lock 4.9 turns				
Turning circle:	Kerb to kerb				
3.30m A/D	12.4m	3.55m A/D	13.0m	3.70m A/D	13.5m

SUSPENSION

Type Front:	Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins. Anti-roll bar.
Type Rear:	Quarter elliptic with air bellows (A). Chassis height may be raised or lowered to assist loading. Double acting telescopic shock absorbers are fitted to both axles.

SPRING SIZE

	Front
Length:	1820mm
No. of leaves	2 x 32mm
Design Capacity	7500Kg

Options:-

- (1)** Air suspension on front axle – design capacity 7500, 8000 or 9000 kg. Mandatory with 'E' Extra Low frame height.
- (2)** 3 x 29mm leaves – design capacity 8500 kg.
- (3)** 4 x 28mm leaves – design capacity 9000 kg.

WHEELS & TYRES

8.25 x 22.5 ten stud spigot mounted disc wheels fitted with 295/80R22.5 radial tubeless tyres.

Options:-

- (1)** 9.00 x 22.5 wheels with 315/80R22.5 tyres
- (2)** 11.75 x 22.5 wheels with 385/65R22.5 or 385/55R22.5 tyres - front axle only
- (3)** Aluminium wheels - Machined or Polished surface finish
- (4)** Front wheel embellishers
- (5)** Tyre Pressure Monitoring (TPM)

FRAME

Type:	F800-50 for 'M' class F950-50 for 'H' class and Extra Low chassis
Flat top constant depth 'U' channel with riveted crossmembers	
Sidemember Dimensions:	

F800 - 270 x 90 x 8mm
F950 - 270 x 90 x 9.5mm
Width over parallel section of frame = 770mm

Bumper: Aerodynamic incorporating FUP

Options:-

- (1)** Side skirts (N/A with Extra Low chassis)
 - 580mm deep – N/A with XW fuel tanks
 - 730mm deep
- (2)** Steel bumper – increases front overhang to 1510mm
- (3)** Centre tow pin – steel bumper only

BRAKE SYSTEM

Type:	Ventilated disc brakes on all axles. Dual circuit, full air, EC brake system incorporating Category 1 ABS and Traction Control. Electronic signalling with pneumatic back-up. Pad wear indicator. Brake pipes manufactured from either rust protected steel or high impact synthetics
Service Circuit:	Actuates all tractor and trailer brakes
Secondary Circuit:	First position of park brake lever actuates tractor spring brakes plus trailer brakes
Parking Brake:	Actuates spring chambers on both axles
Exhaust Brake:	Air actuated operated by brake pedal
Brake Antifreeze Protection:	Air dryer
Brake Wear Adjusters:	Automatic
Options:-	
(1) Scania Hydraulic Retarder, (2) ESP – Electronic Stability Programme	

BRAKE DIMENSIONS

Pad lining area:	2 x 190cm ² on all axles
Swept area of each disc:	2 x 940cm ²

ELECTRICAL SYSTEM

Type:	24V neg (-ve) earth	Alternator:	100A
Batteries:	Twin 180 Ah		
Rear H.I. lamps. Reversing lights. Battery connection – 200A.			

Options:-

(1) 140Ah batteries, (2) 225Ah batteries, (3) Rear mounted 225Ah batteries – only with LH fuel tank ≤ 860 litre, (4) Bodywork electrical preparation – see separate document.

FUEL TANK

1 x 300 litre aluminium RHS

AdBlue tank on RHS - capacity 75l with 'W' tanks - 50l with 'G' tanks.

Options:- (Minimum axle distance in brackets)

Steel – G		Aluminium – W		Aluminium – XW	
LH side	RH side	LH side	RH side	LH side	RH side
150	150	200	200	1 640(3550)	2 500(3700)
200	200	300	300	1 700(3550)	2 550(3550)
300(3700)	300(3550)	350	350	1 750(3700)	
		400	400(3550)	2 860(3550)	
		500	500(3700)	2 950(3550)	
		600(3550)		2 1000(3700)	
		700(3700)			

Mandatory battery position – 1=LHS, 2=Rear – suspension dependencies may apply with XW tanks. Tank sizes can be supplied in LH + RH combinations of the above (except XW where RH is only available together with LH) but steel and aluminium cannot be mixed. Max. volume for EU cross border traffic is 1500 litres. Aluminium tanks are not available with 'E' frame height. Sides viewed from rear.

GENERAL EQUIPMENT

Fixed 5th wheel – 245mm above frame
Lead-on ramps – N/A with 3300mm axle distance
Double Manwalk with step and coupling lamp
Rear Wings
Front tow pin

Options:-

(1) 5th wheel position in front of drive axle centre line – 210 to 760mm in 50mm increments. (2) Sliding 5th wheel – 263mm above frame – N/A with XW fuel tanks. (3) Vertical exhaust outlet – N/A with ADR to EXII/EXIII or FL. (4) ADR to EXII/EXIII, FL, OX or AT. (5) Adaptive Cruise Control (ACC) – retarder mandatory.

INSTRUMENTS & CONTROLS

Two man, one day, EC digital tachograph, rev-counter and gauges for coolant temperature and fuel. Central display for vehicle information and warning messages. Six speed wipers with four jet integral screen wash. Halogen headlamps adjustable from cab for correction of beam height. Warning lights for all major systems grouped within easy vision.

Instrument panel of modular design with switches and controls grouped according to usage. All instruments are back-lit and non-reflective. Impact absorbing, adjustable steering wheel with column lock.

CAB

CP16 Day Cab

Please see separate specification – 'Scania Cabs' for equipment levels.

Options:-

(1) CP19 Sleeper Cab, (2) CP14, (3) CP19 Highline Cab

P.T.O. OPTIONS Check gearbox availability

Rear Mount		GR875 / GRS895 / GR/S905	GRS0905
Pump	Flange		
¹ EG640P	¹ EG640F	1.65 / 2.04H	
¹ EG641P	¹ EG641F		1.33 / 1.67H
¹ EG650P	¹ EG660F	1.00 / 1.24H	
¹ EG651P	¹ EG661F	1.28 / 1.58H	
¹ EG652P	¹ EG662F		0.82 / 1.03H
¹ EG653P	¹ EG663F		1.03 / 1.29H
Side Mount			
EG500P	EG500F	1.33 / 1.65H	
EG501P	EG501F		1.78 / 2.22H
² EG502P	² EG502F	1.33 / 1.65H	
² EG503P	² EG503F		1.78 / 2.22H
Sandwich			
EK730	EK740	1.00	1.00

¹ = Not in combination with side mounted P.T.O.

² = Not in combination with rear mounted P.T.O.

H= High on 'S' splitter gearboxes only.

Flange output rear mount N/A on 6x2/4 or 6x2/2 chassis

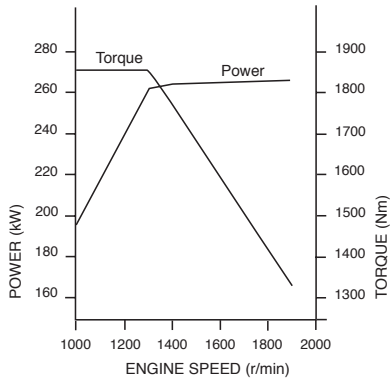
WEIGHTS FOR OPTIONAL EQUIPMENT IN KILOGRAMS (Front – Rear – Total)

Axle Distance	33	35	37
GR905	-6 -3 -9	-6 -3 -9	-6 -3 -9
ADA1300 rear axle	0 +21 +21	0 +21 +21	0 +21 +21
AM950 front axle	+13 0 +13	+13 0 +13	+13 0 +13
Air suspension front	+40 +15 +55	+40 +15 +55	+40 +15 +55
3 x 29mm f/springs	+44 0 +44	+44 0 +44	+44 0 +44
4 x 28mm f/springs	+70 0 +70	+70 0 +70	+70 0 +70
315/80 tyres/9.00 rims	+18 +36 +54	+18 +36 +54	+18 +36 +54
385/55 tyres/11.75 rims	+46 N/A +46	+46 N/A +46	+46 N/A +46
385/65 tyres/11.75 rims	+54 N/A +54	+54 N/A +54	+54 N/A +54
Aluminium Wheels			
8.25x22.5	-24 -48 -72	-24 -48 -72	-24 -48 -72
9.00x22.5	-30 -60 -90	-30 -60 -90	-30 -60 -90
11.75x22.5	-44 N/A -44	-44 N/A -44	-44 N/A -44
F950-50 frame	+25 +25 +50	+25 +25 +50	+25 +25 +50
FUP steel bumper	+67 -13 +54	+67 -13 +54	+67 -13 +54
Centre tow pin	+29 -5 +24	+29 -5 +24	+29 -5 +24
Side skirts	+18 +17 +35	+18 +18 +36	+19 +18 +37
Retarder	+97 +24 +121	+98 +23 +121	+99 +22 +121
140Ah Batteries	-14 -3 -17	-14 -3 -17	-14 -3 -17
225Ah Batteries	+31 +8 +39	+31 +8 +39	+31 +8 +39
Std. Tank Full	+109 +115 +224	+117 +107 +224	+121 +103 +224
*1 x 500l W	+62 +122 +184	+71 +113 +184	+75 +109 +184
*1 x 350 + 1 x 500l W	+204 +304 +508	+230 +278 +508	+257 +251 +508
Sliding 5th wheel	+7 +53 +60	+9 +51 +60	+11 +49 +60
Vertical exhaust outlet	+45 +12 +57	+45 +12 +57	+45 +12 +57
CP14 cab	-53 -2 -55	-53 -2 -55	-53 -2 -55
CP19 sleeper cab	+73 +6 +79	+73 +6 +79	+73 +6 +79
CP19 Highline cab	+102 +9 +111	+102 +9 +111	+102 +9 +111
Air deflectors – CP14	+60 +6 +66	+60 +6 +66	+60 +6 +66
CP16/19/19H	+52 +14 +66	+52 +14 +66	+52 +14 +66
EG Series PTOs	+15 +3 +18	+15 +3 +18	+15 +3 +18
EK Series PTOs	+42 +5 +47	+42 +5 +47	+42 +5 +47

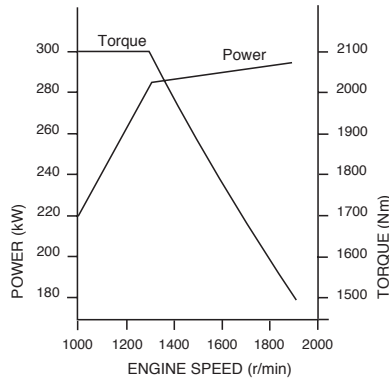
* Additional to standard tank full of fuel.

ENGINE PERFORMANCE

'360' DC13-114

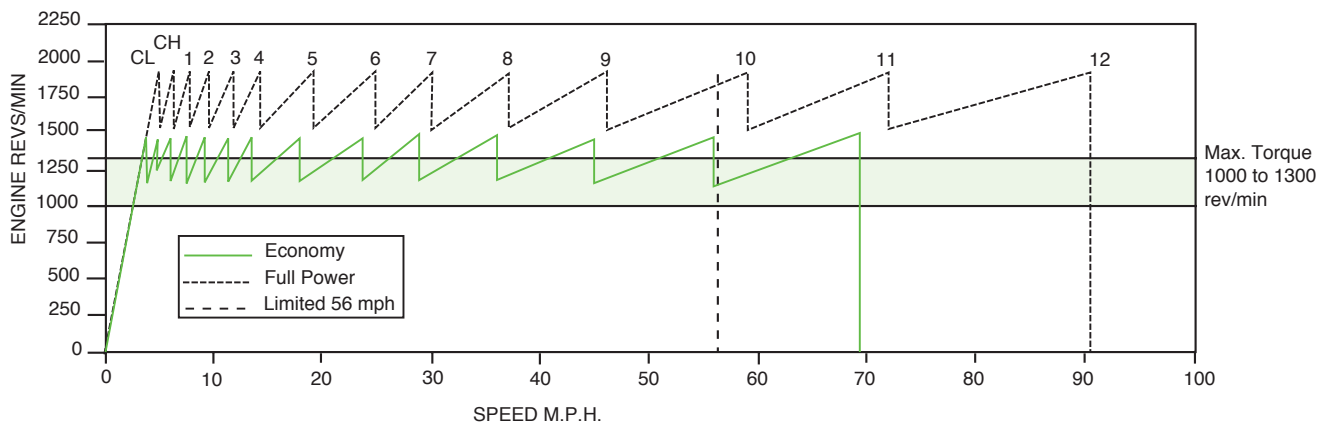


'400' DC13-113



Net engine performance to 80/1269*1999/99EC

GEAR STEP DIAGRAM



SPEED/GRADEABILITY Gradeability may be limited by tyre adhesion.

Axle gear/ Ratio	Optimum Cruising Speed M.P.H.	Gradeability - steady climb – in percent	
		DC13-114 40T	DC13-113 40T
R 780 2.71*	43 – 56	>35	>35
R 780 2.92*	40 – 53	>35	>35
R 780 3.08 Std	43 – 56	>35	>35
R 780 3.27	41 – 54	>35	>35
R 780 3.40	39 – 51	>35	>35
R 780 3.80	35 – 46	>35	>35

*2.59, 2.71 and 2.92 ratio shown with low profile tyres – calculations based on 295/60R22.5 rear tyres.

Remaining calculations assume standard specifications. Performance achieved in operation will depend on conditions, bodywork, gear ratios and tyre specification.

The specifications contained in this publication are intended as a general guide, and not as representations as to the product described, nor as binding in detail.



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