

L102 (centreline of front axle to back of cab) Short – 255 Day – 535 Sleeper – 805

DIMENSIONS (mm)

L011		3975
L015		3515
L020		780
Day Cab	CG	979
Sleeper Cab	CG	967

Fifth Wheel position to suit 16.5m overall length

935 forward of drive axle centre line
 Max. imposed load = 14971 kg – Day Cab
 Max. imposed load = 14953 kg – Sleeper Cab

H039 unladen = 1000mm H040 laden = 970mm L015 = theoretical wheelbase

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 bogie centreline

PLATED WEIGHTS – AWR

		Front Axle	Second Steer	Rear Axle	GVW	GTW
Design Gross	Kg	7500†	6100	10200	23800	60000
Legal Max in GB	Kg	7100¶	6000	10000	23100	44000

† Front axle capacity up to a maximum of 8000 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	Bogie	Total (kg)
3975	4635	2760	7395

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 with Scania XPI.

'360'

Type:	DC13-06
Swept Volume:	12.74 litres
Bore:	130 mm
Stroke:	160 mm
Compression Ratio:	17:1
*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 EGR
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
Engine Driven PTO provision:	ED120

Options:-

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

'400'

Type:	DC13-05
*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

*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.
Oil Capacity:	15.6 litres

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 AXLES

Type:	Second axle - Scania ASA720 Drive axle - Scania ADA 1100
Capacity:	Combined 19000 Kg
Drive axle has pressed steel housing with magnetic oil drain plug.	

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
Capacity:	7500Kg
Options:-	
(1)	Scania AM950 – capacity 9000 kg.
(2)	Scania AMA860 – air only – capacity 8000 kg.

STEERING

Type:	Recirculating ball. Hydraulically assisted power steering
Steering wheel:	Diameter 450mm. Lock to lock 4.9 turns
Turning circle:	Kerb to kerb 3.975m A/D 12.94m

SUSPENSION

Type Front:	Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins. Anti-roll bar.
Type Rear:	Second axle - quarter elliptic with air bellows (A) (2 bag) which may be evacuated from the cab to increase drive axle traction. Pneumatic mid-axle hoist. Drive axle - quarter elliptic with air bellows. Chassis height may be raised or lowered to assist loading. Double acting telescopic shock absorbers are fitted to all 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 or 8000 kg.
(2)	3 x 29mm leaves – design capacity 8500 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) Wheel embellishers - axles 1 and 2
- (5) Tyre Pressure Monitoring (TPM)

FRAME

Type:	F950-50
Flat top constant depth 'U' channel with riveted crossmembers	
Sidemember Dimensions:	
	F950 - 270 x 90 x 9.5mm
Width over parallel section of frame = 770mm	
Bumper:	Aerodynamic incorporating FUP
Options:-	(1) Side skirts. (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:	Actuates split service system plus trailer brakes
Parking Brake:	Actuates spring chambers on front and drive 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, Side marker lamps,
Battery connection – 200A.

Options:-

(1) 140Ah batteries, **(2)** 225Ah batteries, **(3)** Bodywork electrical preparation – see separate document.

FUEL TANKS

1 x 300 Litre RHS aluminium

Options:- (Minimum axle distance and suspension type in brackets)

	RH Side	LH Side	Aluminium - W	RH Side	LH Side
Steel - G 200	200	150	–	–	200
		200	300	300	300

Tank sizes can be supplied in LH + RH combinations of the above but steel and aluminium cannot be mixed. Sides viewed from rear.

GENERAL EQUIPMENT

Fixed 5th wheel - 285mm above frame

Lead-on ramps

Double Manwalk with step and coupling lamp

Rear Wings

Front tow pin

Options:-

(1) 5th wheel position in front of drive axle centre line – 635 to 1085mm in 50mm increments

(2) Sliding 5th wheel - 285mm above frame

(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
EG650P	EG660F	1.00 / 1.24H	
¹ EG651P	¹ EG661F	1.28 / 1.58H	
EG652P	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.

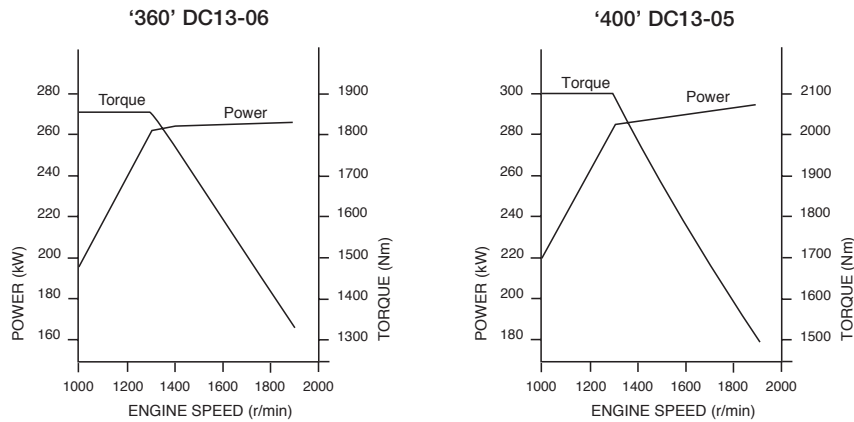
H= High on ‘S’ splitter gearboxes only.

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

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

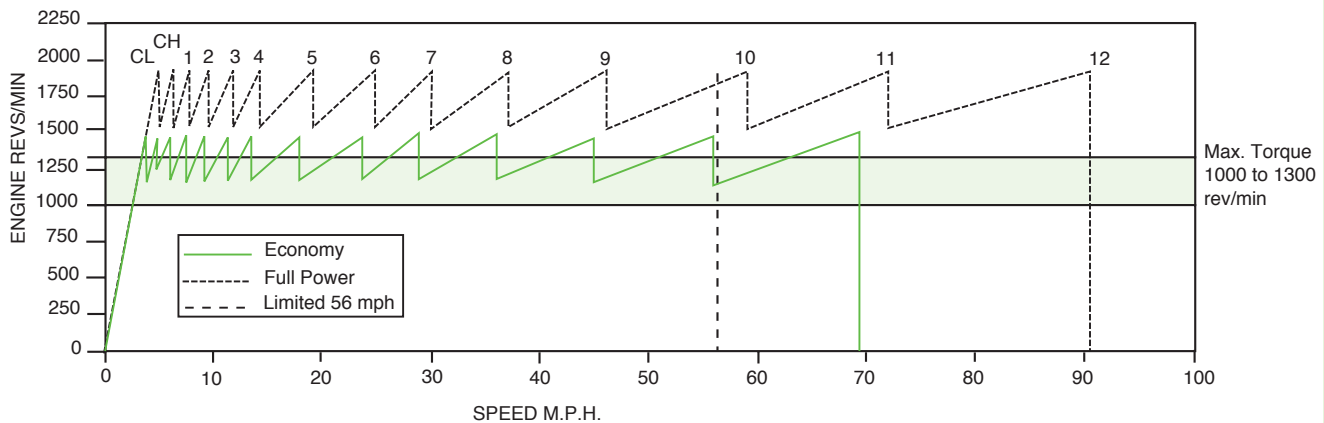
Axle Distance	3975
DC13-05 engine	+7 +4 +11
GR905	-6 -3 -9
AM950 front axle	+13 0 +13
Air suspension front	+40 +15 +55
3 x 29mm front springs	+44 0 +44
385/55 Tyres/11.75 rims	+46 N/A +46
385/65 Tyres/11.75 rims	+54 N/A +54
315/80 Tyres/9.00 rims	+18 +54 +72
Aluminium Wheels	
8.25x22.5	-24 -72 -96
9.00x22.5	-30 -90 -120
11.75x22.5	-44 N/A -44
Side skirts	+20 +19 +39
FUP steel bumper	+67 -13 +54
Centre tow pin	+29 -5 +24
Retarder	+101 +20 +121
140Ah Batteries	-13 -4 -17
225Ah Batteries	+31 +8 +39
Std. Tank Full	+116 +118 +234
2 x 300l W	+143 +133 +276
Sliding 5th wheel	+8 +52 +60
Vertical exhaust outlet	+37 +8 +45
CP14 Cab	-35 +2 -33
CP19 Sleeper Cab	+65 +15 +80
CP19 Highline Cab	+89 +21 +110
Air deflectors – CP14	+40 +2 +42
– CP16/19/19H	+39 +3 +42
EG Series PTOs	+15 +3 +18
EK Series PTOs	+42 +5 +47

ENGINE PERFORMANCE



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			
		DC13-06		DC13-05	
		44T	60T	44T	60T
R 780 2.71*	43 - 56	>35	28.4	>35	32.8
R 780 2.92*	40 - 53	>35	30.9	>35	>35
R 780 3.08 Std	43 - 56	>35	28.5	>35	32.9
R 780 3.27	41 - 54	>35	30.4	>35	>35
R 780 3.42	39 - 51	>35	32.0	>35	>35
R 780 3.80	35 - 46	>35	>35	>35	>35

*2.71 and 2.92 ratio only available 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.