

SCANIA

SPECIFICATION

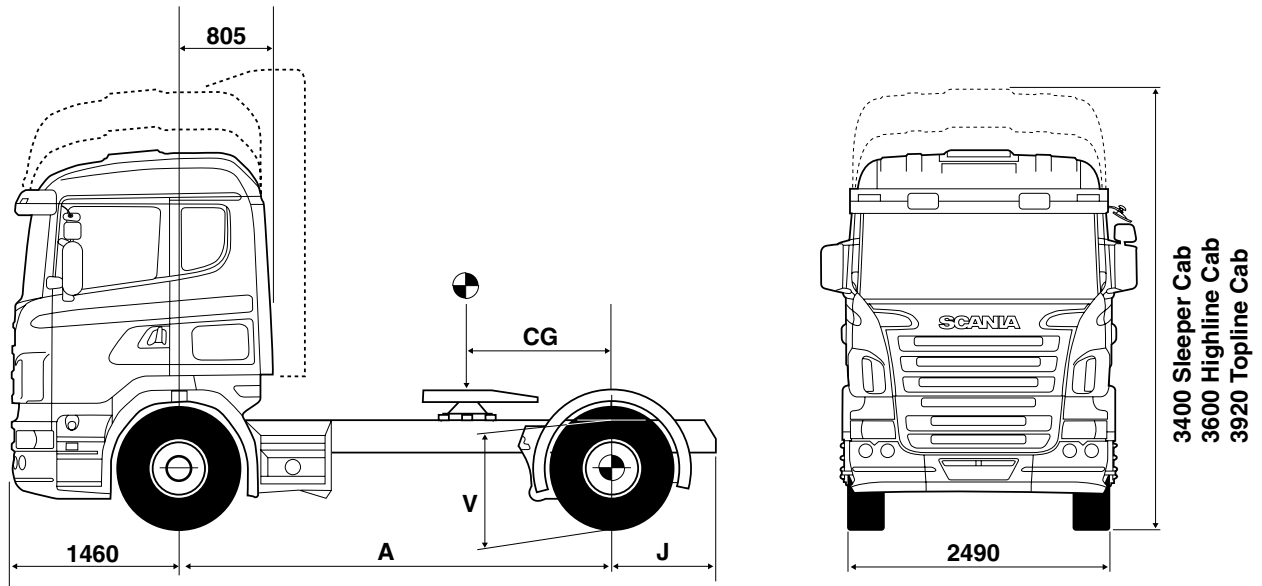
R-series

R 340 LA4x2MNA

60000Kg GTW

TWO AXLE TRACTOR

R



DIMENSIONS (mm)

A		3300	3550	3700
J		780	780	780
Sleeper Cab	CG Max	581	605	624
	CG Min	394	403	413
Fifth Wheel position to suit 16.5m overall length		N/A	510	660 forward of drive axle centre line

V unladen	V 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

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.
V dimension measured to top of frame at rear axle centreline

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

PLATED WEIGHTS – AWR

		Front Axle	Rear Axle	GVW	GTW
Design Gross	Kg	7500 [†]	11500	19000	60000
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	4880	1820	6700
3550	4915	1860	6775
3700	4920	1865	6785

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

R 340 LA4x2MNA

SL5450842
August 06

ENGINE (EURO 4)

Scania '12 litre' vertical six cylinder in-line turbocharged intercooled direct injection diesel with hydraulic unit injectors (H.P.I.).

'340'

Type:	DC12-10
Swept Volume:	11.7 litres
Bore:	127 mm
Stroke:	154 mm
Compression Ratio:	17:1
*Max. Power:	250kW (340 h.p.) at 1800 rev/min
*Max. Torque:	1700 Nm (1255 lbf.ft) between 1100 and 1350 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 electronically regulated fan
Coolant Capacity:	55 litres
Oil Capacity:	33 litres
Air Cleaner:	Dry replaceable paper element

Options:-

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

'380'

Type:	DC12-13
*Max. Power:	280kW (380 h.p.) at 1800 rev/min
*Max. Torque:	1900 Nm (1402 lbf.ft) between 1100 & 1350 rev/min

(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 GR905 eight speed synchromesh (four speed main fitted with two speed planetary range unit), plus one crawler gear.
Oil Capacity:	15.6 litres

GEAR RATIOS

Crawler	16.41:1		
Low Range		High Range	
1st	10.34:1	5th	2.76:1
2nd	7.19:1	6th	1.92:1
3rd	5.08:1	7th	1.35:1
4th	3.75:1	8th	1.00:1
Reverse	14.78:1		

Options:-

(1) **Type:** Scania GRS905 - fourteen speed range change/splitter including two crawler gears.

(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
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Single reduction hypoid. Crown wheel and pinion matched during manufacture. Pneumatically differential operated 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.

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 or 8000 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

FRAME

Type:	F800-50 for 'M' class F950-50 for 'H' class and Extra Low chassis
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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)

(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:	80A
Batteries:	Twin 180 Ah		
	Rear H.I. lamps, Reversing lights		

Options:-

(1) 100A Alternator, **(2)** 140Ah batteries, **(3)** 225Ah batteries, **(4)** Battery connection – 200A, **(5)** Bodywork electrical preparation – see separate document

FUEL TANK

1 x 300 litre RHS aluminium

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

	RH Side	LH Side	RH Side	LH Side
Steel - G	150	150	Aluminium - W	200
	200	200		200
	300	300 (3550)		300
	450 (3550)	450 (3550)		350
				400
				500 (3550)
				500
				600 (3550)
				700 (3700)
				700 (3700)

Tank sizes can be supplied in LH + RH combinations of the above but steel and aluminium cannot be mixed. Aluminium tanks are not available with 'E' frame height. Sides viewed from rear.

GENERAL EQUIPMENT

Fixed 5th wheel – 245mm 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 – 210 to 760mm in 50mm increments
(2) Sliding 5th wheel - 263mm above frame
(3) Vertical exhaust outlet
(4) ADR to EXIII/EXIII, FL, OX or AT

INSTRUMENTS & CONTROLS

Two man, 1 day, EC digital tachograph, rev-counter, gauges for air pressure (2), coolant temperature and fuel. 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

CR19 Sleeper Cab

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

Options:-

- (1)** CR19 Highline
(2) CR19 Topline

P.T.O. OPTIONS Check gearbox availability

	G670	GR875/GRS895	GR905/GRS905	GRS0905
EG550CC/560:	6 0.69			
EG551CC/561:	6 0.54			
EG650CC/660:	5		1.00/1.24H	
EG651CC/661:	5		1.28/1.58H	
EG652CC/662:	5			0.82/1.03H
EG653CC/663:	5			1.03/1.29H
EG654CC/664:	5	1.00/1.24H		
EG655CC/665:	5	1.28/1.58H		
EK730CC/740:	12	1.00	1.00	1.00

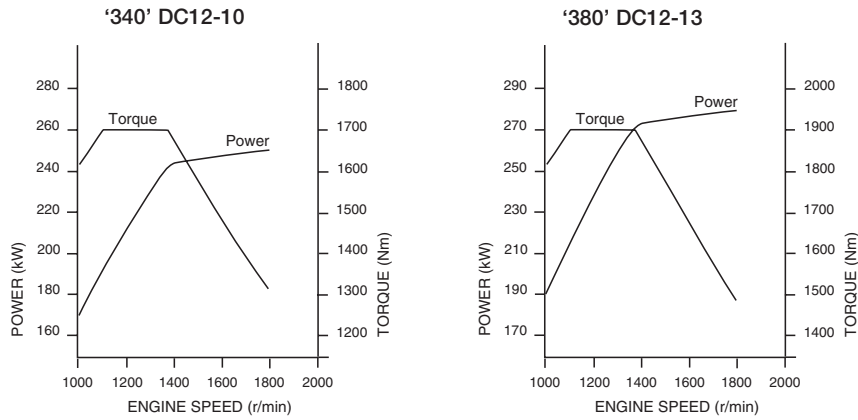
CC = close coupled H = High on 'S' splitter gearboxes only

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

Axle Distance	33	35	37
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 front springs	+44 0 +44	+44 0 +44	+44 0 +44
4 x 28mm front springs	+70 0 +70	+70 0 +70	+70 0 +70
9.00x22.5 Wheels + 315/80 Tyres	+18 +36 +54	+18 +36 +54	+18 +36 +54
11.75 Wheels + 385/55 Tyres	+46 N/A +46	+46 N/A +46	+46 N/A +46
11.75 Wheels + 385/65 Tyres	+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 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 +17 +35	+18 +17 +35
Retarder	+68 +21 +89	+69 +20 +89	+70 +19 +89
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	+37 +8 +45	+37 +8 +45	+37 +8 +45
CR16 (no deflectors)	-159 0 -159	-159 0 -159	-159 0 -159
CR19 Highline	+58 -10 +48	+58 -10 +48	+58 -10 +48
Topline cab incl. deflectors	+130 -30 +100	+130 -30 +100	+130 -30 +100
EG Series PTOs	+15 +3 +18	+15 +3 +18	+15 +3 +18
EK Series PTOs	+42 +5 +47	+42 +5 +47	+42 +5 +47

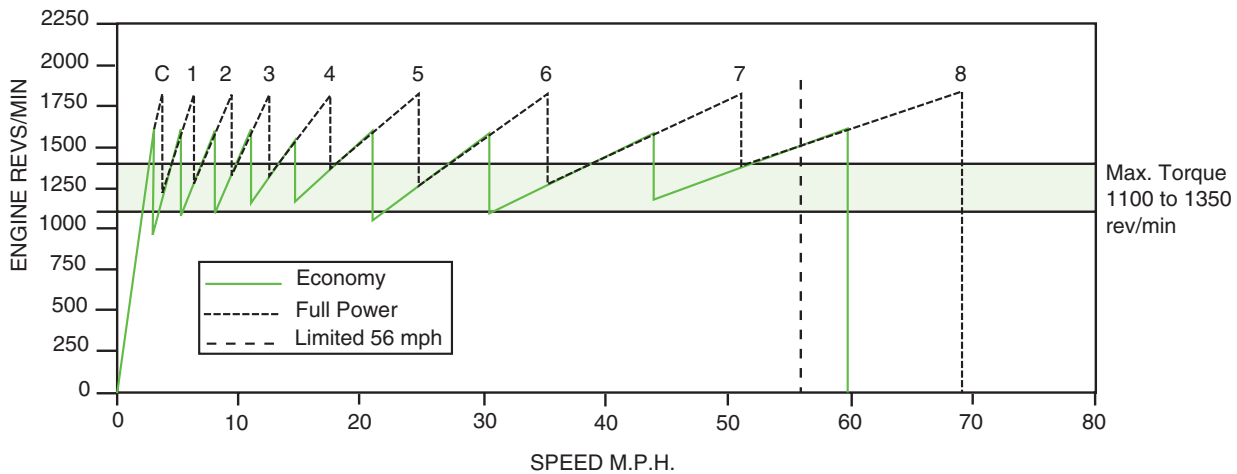
* Additional to standard tank full of fuel.

ENGINE PERFORMANCE



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			
		DC12-10		DC12-13	
		40T	60T	40T	60T
R 780 2.71*	56	>35	25.9	>35	29.3
R 780 2.92*	52-56	>35	28.1	>35	31.9
R 780 3.08 Std	56	>35	26.0	>35	29.4
R 780 3.27	52-56	>35	27.8	>35	31.4
R 780 3.40	50-53	>35	29.0	>35	32.8
R 780 3.80	45-48	>35	32.8	>35	>35

*2.71 and 2.92 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.

