SCANIA

SPECIFICATION

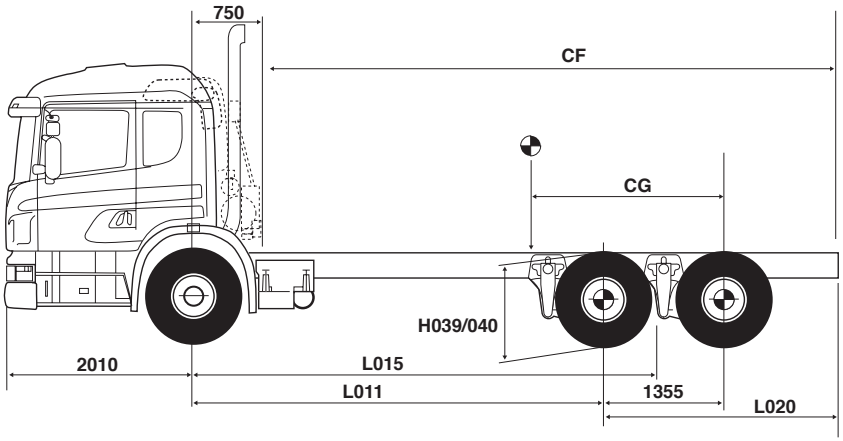
P-, G- and R-series

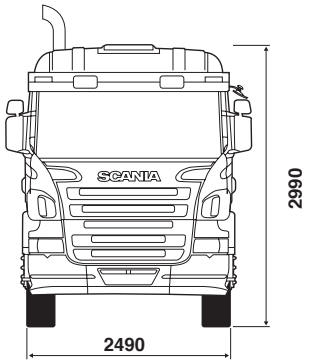
P 280 LB6x4MNB

27000Kg GVW

THREE AXLE REFUSE CHASSIS
(DOUBLE DRIVE)

P





DIMENSIONS (mm)

L011	**3900**	**4100**	**4300**	**4500**	**4700**	**4900**	**5100**
L015	**4578**	**4778**	**4978**	**5178**	**5378**	**5578**	**5778**
CF	**5750**	**5950**	**6150**	**6350**	**6550**	**6750**	**6950**
L020	**2600**	**2600**	**2600**	**2600**	**2600**	**2600**	**2600**
L020 Max	**4000**	**4200**	**4200**	**4400**	**4600**	**4800**	**5000**
CG Max	**1341**	**1347**	**1393**	**1419**	**1445**	**1470**	**1496**
CG Min	**1082**	**1096**	**1110**	**1125**	**1139**	**1152**	**1166**

H039 unladen	H040 laden	Chassis Height
1000 mm	970 mm	Normal (N)

CG dimension for body and payload calculated for standard model at standard GB plated weights. Height dimensions measured to top of frame at rear bogie centreline. Rear overhang (L020) can be specified in 10 mm steps up to maximum – check legality.

PLATED WEIGHTS – AWR

		Front Axle	Rear Bogie	GVW Axle	GTW
Design Gross	Kg	8000	19000	27000	30500
Legal Max in GB	Kg	8000	19000	26000	29500

Plated weights dependent on statutory tyre limitations.

CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

Axle distance	Front	Rear Bogie	Total (kg)
3900	5241	2894	8135
4100	5250	2900	8150
4300	5259	2906	8165
4500	5268	2912	8180
4700	5277	2918	8195
4900	5286	2924	8210
5100	5295	2930	8225

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

ENGINE (EURO 5)

Scania '9 litre' vertical five cylinder in-line turbocharged intercooled direct injection diesel with Scania XPI.

	'280'
Type:	**DC9-38**
Swept Volume:	9.3 litres
Bore:	130 mm
Stroke:	140 mm
Compression Ratio:	17:1
***Max. Power:**	206kW (280 h.p.) at 1900 rev/min
***Max. Torque:**	1400 Nm (1033 lbf.ft) between 1000 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:	42 litres
Oil Capacity:	31 litres
Air Cleaner:	Dry replaceable paper element
Engine driven PTO provision:	ED120

Options:-

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

	'320'
Type:	**DC9-37**
***Max. Power:**	235kW (320 h.p.) at 1900 rev/min
***Max. Torque:**	1600 Nm (1180 lbf.ft) between 1100 and 1200 rev/min

***(2)** Details as above but engines fitted with Diesel Particulate Filters and EEV certified:– '280' DC9-29, '320' DC9-32*

*With fan at max. slip

GEARBOX

Type: Scania GA867 – (Allison 4000) with 1 o'clock P.T.O. output. Automatic 6 speed electronically controlled.

REAR AXLES

Type: **Both:** Scania ADA1300

Capacity: 26000 Kg

Pressed steel housing with magnetic oil drain plugs.

REAR AXLE GEAR

Type: Scania RB662 – first axle
Scania R660 – second axle

Single reduction hypoid in both axles. Crown wheels and pinions matched during manufacture. Pneumatically operated inter-axle and cross axle differential locks.

FRONT AXLE

Type: Scania AMA860 – I section rigid beam

Capacity: 8000Kg

STEERING

Type: Recirculating ball. Hydraulically assisted power steering.

Steering wheel: Diameter 450mm. Lock to lock 4.9 turns

Turning circle: Kerb to kerb

3.9m A/D 17.5m	4.1m A/D 18.3m	4.3m A/D 19.0m
4.5m A/D 19.8m	4.7m A/D 20.5m	4.9m A/D 21.3m
5.1m A/D 22.0m		

SUSPENSION

Type Front: Two bag air with axle located by tie rods. Front anti-roll bar.

Type Rear: (2 bag) Quarter elliptic with air bellows on both axles. Chassis height may be raised or lowered to assist loading. Double acting telescopic shock absorbers are fitted to all axles.

WHEELS & TYRES

Front: 9.00 x 22.5 ten stud spigot mounted disc wheels fitted with 315/80R22.5 radial tubeless tyres.

Drive 1: 8.25 ten stud spigot mounted disc wheels fitted with 295/80R22.5 radial tubeless tyres (4).

Drive 2: 8.25 ten stud spigot mounted disc wheels fitted with 295/80R22.5 radial tubeless tyres (4).

Options:-

***(1)** 11.75 x 22.5 wheels with 385/65R22.5 or 385/55R22.5 tyres - steered axles only.*
***(2)** Aluminium wheels - machined or polished surface finish.*
***(3)** Wheel embellishers - steered axle only.*

FRAME

Type: F950-50

Flat top constant depth 'U' channel with riveted crossmembers

Sidemember Dimensions:

F950 – 270 x 90 x 9.5mm

Pre-drilled for bodywork mounting brackets.

Width over parallel section of frame = 770mm

Bumper: Aerodynamic incorporating FUP

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 truck brakes
Secondary Circuit:	First position of park brake lever actuates spring brakes.
Parking Brake:	Actuates spring chambers on front and first drive axles.
Exhaust Brake:	Air actuated operated by foot switch
Brake Antifreeze Protection:	Air dryer
Brake Wear Adjusters:	Automatic

Options:-

***(1)** Gearbox integral retarder*

BRAKE DIMENSIONS

Pad lining area: 2 x 190cm² on all axles
Swept area of each disc: 2 x 940cm²

ELECTRICAL SYSTEM

Type: 24V neg (-ve) earth **Alternator:** 100A
Batteries: Twin 140Ah
Rear H.I. lamps, Reversing lights, Battery connection - 200A

Options:-
(1) *180Ah batteries,* ***(2)*** *225Ah batteries,*
(3) *Bodywork electrical preparation – see separate document.*

FUEL TANK

1 x 300 litre steel RHS

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 (4300)*
	200		*300*	*300 (4300)*
	300	*300 (4300)*	*350*	
	450 (4300)	*450 (4300)*	*400*	*400*
			500	
			600 (4300)	
			700 (4300)	

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

Front tow pin.
Vertical exhaust outlet.

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

CP19E – Municipal Cab

Four man, easy access walk-through safety cab. Individual driver and passenger seats plus two man bench seat. 3 point set belts for all seats. Electrically operated driver and passenger windows. Rear wall storage modules plus wet weather clothes hanging facility.

P.T.O. OPTIONS

EG210: 1.08:1 Propshaft output

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

Axle Distance	39	41	43	45	47	49	51
385/55 tyres/ 11.75 rims	+30 +0 +30	+30 +0 +30	+30 +0 +30	+30 +0 +30	+30 +0 +30	+30 +0 +30	+30 +0 +30
385/65 tyres/ 11.75 rims	+38 +0 +38	+38 +0 +38	+38 +0 +38	+38 +0 +38	+38 +0 +38	+38 +0 +38	+38 +0 +38
Aluminium Wheels							
8.25x22.5	–24 –96 –120	–24 –96 –120	–24 –96 –120	–24 –96 –120	–24 –96 –120	–24 –96 –120	–24 –96 –120
9.00x22.5	–30 –120 –150	–30 –120 –150	–30 –120 –150	–30 –120 –150	–30 –120 –150	–30 –120 –150	–30 –120 –150
11.75x22.5	–44 0 –44	–44 0 –44	–44 0 –44	–44 0 –44	–44 0 –44	–44 0 –44	–44 0 –44
Retarder	+22 +8 +30	+23 +7 +30	+24 +6 +30	+24 +6 +30	+24 +6 +30	+24 +6 +30	+24 +6 +30
180 Ah batteries	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17
225 Ah batteries	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56
Std tank-full	+131 +93 +224	+135 +89 +224	+138 +86 +224	+142 +82 +224	+145 +79 +224	+148 +76 +224	+150 +74 +224
*1x450l G	+71 +100 +171	+75 +96 +171	+79 +92 +171	+83 +88 +171	+86 +85 +171	+89 +82 +171	+92 +79 +171
EG Series PTOs	+26 +4 +30	+26 +4 +30	+26 +4 +30	+26 +4 +30	+26 +4 +30	+26 +4 +30	+26 +4 +30

* Additional to standard tank full of fuel.

SCANIA

SPECIFICATION

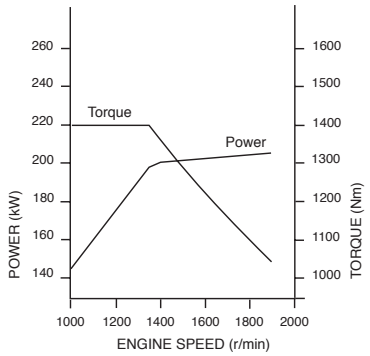
P 280 LB6x4MNB

27000Kg GVW

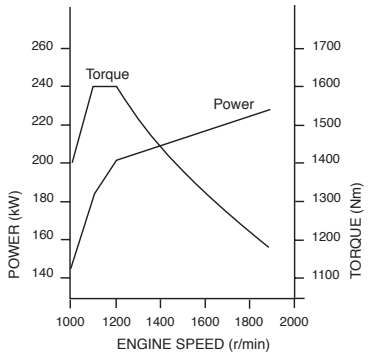
THREE AXLE REFUSE CHASSIS
(DOUBLE DRIVE)

ENGINE PERFORMANCE

'280' DC9-38/29

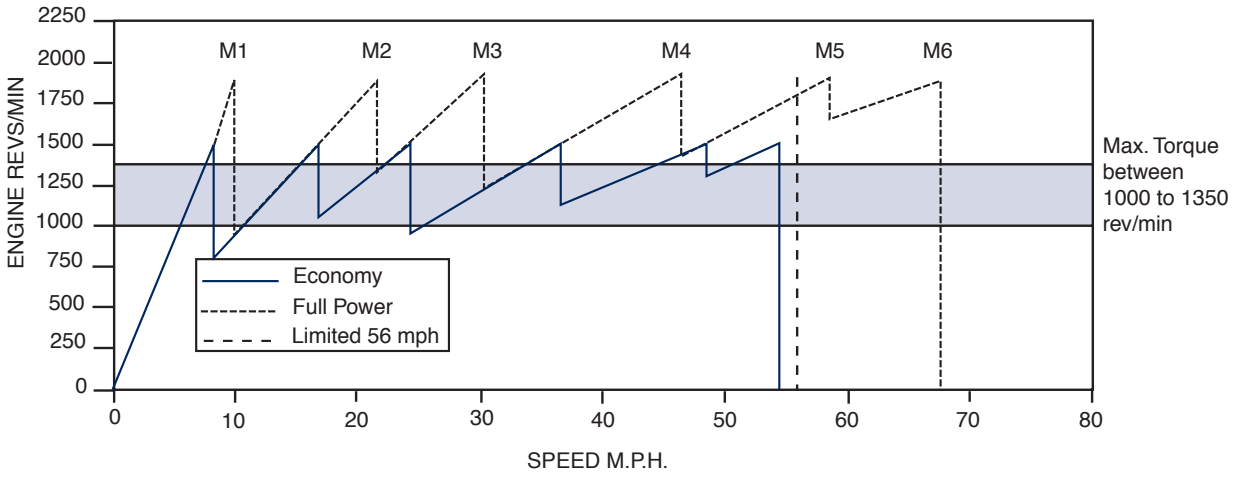


'320' DC9-37/32



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	
			DC9-38 26T	DC9-37 26T
RB 660	4.88	42 – 55	30.0	32.4

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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