

SCANIA

SPECIFICATION

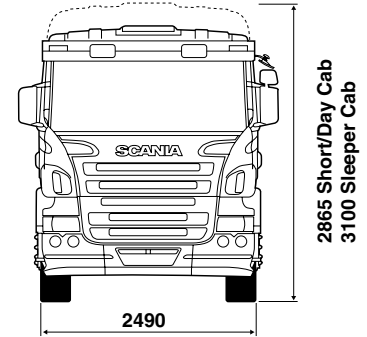
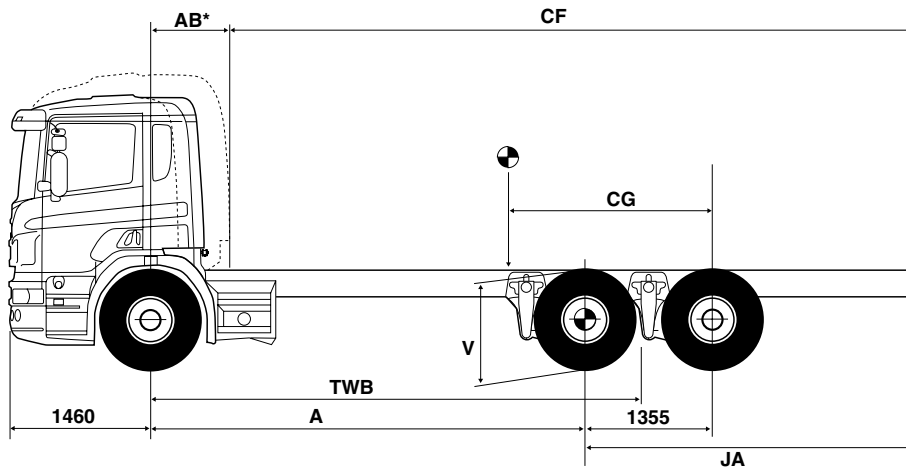
P-series

P 230 DB6x2MNA

26500Kg GVW

THREE AXLE RIGID/DRAWBAR

P



AB (centreline of front axle to start of bodywork) Short — 450 Day — 610 Sleeper — 875

* Increases by 15mm with air deflectors

DIMENSIONS (mm)

A		4300	4500	4700	4900	5100	5300	5500	5700	5900
TWB		4906	5106	5306	5506	5706	5906	6106	6306	6506
BLR	Day cab	7198	7550	7841	8186	8615	8970	9348	9727	9930
	(feet)	(23.6)	(24.8)	(25.7)	(26.9)	(28.3)	(29.4)	(30.6)	(31.9)	(32.6)
	Sleeper	6707	7061	7351	7698	8130	8486	8885	9270	9648
	(feet)	(22.0)	(23.2)	(24.1)	(25.3)	(26.7)	(27.8)	(29.2)	(30.4)	(31.6)
CF	Day cab	7190	7550	7840	8180	8610	8970	9340	9720	9800
	Sleeper	6705	7055	7345	7695	8125	8485	8885	9265	9535
JA	Day cab	3500	3660	3750	3890	4120	4280	4450	4630	4510
	Sleeper	3280	3430	3520	3670	3900	4060	4260	4440	4510
JA Max		4200	4400	4600	4800	5000	5110	4910	4710	4510
CG Max	Day cab	1578	1607	1667	1700	1692	1720	1738	1754	1771
	Sleeper	1561	1587	1647	1679	1670	1698	1707	1719	1735
CG Min	Day cab	1447	1470	1525	1553	1538	1561	1572	1583	1594
	Sleeper	1429	1450	1504	1531	1516	1537	1538	1546	1556

V unladen	V laden	Chassis Height
1000 mm	970 mm	Normal (N)
878 mm	854 mm	Low (L) ¹

¹'L' dimensions assume '60 series' tyre fitment

TWB = Theoretical wheelbase

BLR = Max. bodylength to suit weight distribution. CG dimension for body and payload calculated for standard model at standard GB plated weights.

V dimension measured to top of frame at rear bogie centreline. Rear overhang (JA) can be specified in 10 mm steps up to maximum – check legality.

PLATED WEIGHTS – AWR

	Front Axle	Drive Axle	Trailing Axle	GVW	GTW \$
Design Gross	Kg 7500†	10500	8500	26500	30000
Legal Max in GB	Kg 7500	10500	8500	26000	29500

\$ GTW 40000kg when fitted with trailer brakes and either '270' or '310' engine. GR905 gearbox recommended as minimum.

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

Plated weights dependent on statutory tyre limitations.

CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

Axle distance	Front	Rear Bogie	Total (kg)
4300	4140	3004	7144
4500	4161	3018	7179
4700	4181	3033	7214
4900	4201	3048	7249
5100	4222	3062	7284
5300	4239	3075	7314
5500	4295	3087	7382
5700	4349	3100	7449
5900	4399	3115	7514

Chassis cab weight includes 20 litres of fuel, oil and water.

Driver not included. See overleaf for option weights.

P 230 DB6x2MNA

SL5450848
August 06

ENGINE (EURO 4)

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

'230'

Type:	DC9-16
Swept Volume:	8.9 litres
Bore:	127 mm
Stroke:	140 mm
Compression Ratio:	17:1
*Max. Power:	169kW (230 h.p.) at 1800 rev/min
*Max. Torque:	1050 Nm (774 lbf.ft) between 1100 and 1500 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:	27 litres
Air Cleaner:	Dry replaceable paper element

Options:-

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

'270'

Type:	DC9-17
*Max. Power:	199kW (270 h.p.) at 1800 rev/min
*Max. Torque:	1250 Nm (922 lbf.ft) between 1100 and 1450 rev/min

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

'310'

Type:	DC9-18
*Max. Power:	228kW (310 h.p.) at 1800 rev/min
*Max. Torque:	1550 Nm (1143 lbf.ft) between 1100 and 1350 rev/min

(3) 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 GR875 eight speed synchromesh (four speed main fitted with two speed planetary range unit)
Oil Capacity:	11.1 litres

GEAR RATIOS

Low Range

1st	9.17:1
2nd	6.26:1
3rd	4.65:1
4th	3.75:1

High Range

5th	2.45:1
6th	1.67:1
7th	1.24:1
8th	1.00:1

Reverse 11.00:1

Options:-

(1) Type: Scania GR905 - eight speed synchromesh (four speed main fitted with two speed planetary range unit) plus one crawler gear.

(2) Type: Scania GRS895 twelve speed synchromesh (three speed main fitted with two speed planetary range unit plus splitter).

(3) Opticruise: Gearchange management system - all engines with GR875 - '270' and '310' only with GRS895.

(4) Type: Automatic six speed electronically controlled.

REAR AXLE

Type:	Driving: Scania ADA1100 Trailing: Scania ASA1000
Capacity:	Combined 19000 Kg

Drive axle has pressed steel housing with magnetic oil drain plug.

REAR AXLE GEAR

Type:	Scania R660
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Single reduction hypoid. Crown wheel and pinion matched during manufacture. Pneumatically operated differential lock.

FRONT AXLE

Type:	Scania AM740 I section rigid beam - AMA740 with air suspension.
Capacity:	7500Kg

Options:-

(1) Scania AM950 - capacity 9000kg

(2) Scania AMA860 - air only - 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				
4.3m A/D	18.2m	4.5m A/D	18.8m	4.7m A/D	19.6m
4.9m A/D	20.2m	5.1m A/D	21.0m	5.3m A/D	21.8m
5.5m A/D	22.4m	5.7m A/D	23.3m	5.9m A/D	24.0m

SUSPENSION

Type Front: Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins.

Type Rear: Quarter elliptic with air bellows (A) SMS fast. Chassis height may be raised or lowered to assist loading. Pneumatic trailing axle hoist. Double acting telescopic shock absorbers are fitted to both axles.

Options:- (1) Front anti-roll bar

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.

(3) 4 x 28mm leaves - design capacity 9000 kg.

WHEELS & TYRES

Ten stud spigot mounted disc wheels fitted with radial tubeless tyres.

Front: 9.00 x 22.5 wheels with 315/80R22.5 tyres (2 off)

Drive: 8.25 x 22.5 wheels with 295/80R22.5 tyres (4 off)

Trailing: 8.25 x 22.5 wheels with 295/80R22.5 tyres (4 off)

Options:-

(1) 11.75 x 22.5 wheels with 385/65R22.5 or 385/55R22.5 tyres - front axle only

(2) Aluminium wheels - machined or polished surface finish

(3) Front wheel embellishers

FRAME

Type:	F950-50 for 'M' class F958-50 for 'H' class
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Flat top constant depth 'U' channel with riveted crossmembers

Sidemember Dimensions:

F950 -	270 x 90 x 9.5mm
F958 -	270 x 90 x 9.5mm External member 247 x 78 x 8mm Internal member

Pre-drilled for bodywork mounting brackets

Width over parallel section of frame = 770mm

Bumper: Aerodynamic incorporating FUP

Options:- (1) Steel bumper - increases front overhang to 1510mm.
(2) 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 truck brakes

Secondary Circuit: First position of park brake lever actuates spring chambers on axles 2 and 3

Parking Brake: Actuates spring chambers on axles 2 and 3

Exhaust Brake: Air actuated operated by brake pedal

Brake Antifreeze Protection: Air dryer

Brake Wear Adjusters: Automatic

Options:- (1) 2 line EC trailer brake pipes to rear section of chassis.
(2) Scania Hydraulic 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:-
(2) 180Ah batteries, (2) 225Ah batteries,
(3) Bodywork electrical preparation – see separate document.

FUEL TANK

1 x 300 litre aluminium 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	200		300
	300	300		350
	450	450		400
				500
				600
				700

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

Options:-

(1) Vertical exhaust outlet, (2) 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

CP16 Day Cab

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

Options:-

(1) CP19 Sleeper Cab
(2) CP14

P.T.O. OPTIONS Check gearbox availability

	G670	GR875/GRS895	GR905/GRS905	GRS0905
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	1.00

CC = close coupled H = High on 'S' splitter gearboxes only
Shaft output N/A on 6 x 2/4 chassis

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

Axle Distance	43	45	47	49	51	53	55	57	59
GR905	+34 +9 +43	+34 +9 +43	+35 +8 +43	+36 +7 +43	+36 +7 +43	+36 +7 +43	+36 +7 +43	+37 +6 +43	+37 +6 +43
GRS895	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2
AM950 front axle	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13
Front anti-roll bar	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33
Air suspension front	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55	+40 +15 +55
3 x 29mm f/springs	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44	+44 0 +44
4 x 28mm f/springs	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73	+73 0 +73
315/80 tyres/ 9.00 rims	+0 +72 +72	+0 +72 +72	+0 +72 +72	+0 +72 +72	+0 +72 +72	+0 +72 +72	+0 +72 +72	+0 +72 +72	+0 +72 +72
385/55 tyres/ 11.75 rims	+30 N/A +30	+30 N/A +30	+30 N/A +30	+30 N/A +30	+30 N/A +30	+30 N/A +30	+30 N/A +30	+30 N/A +30	+30 N/A +30
385/65 tyres/ 11.75 rims	+38 N/A +38	+38 N/A +38	+38 N/A +38	+38 N/A +38	+38 N/A +38	+38 N/A +38	+38 N/A +38	+38 N/A +38	+38 N/A +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	-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	-30 -120 -150	-30 -120 -150
11.75x22.5	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44
F958-50 frame	+110 +195 +305	+110 +195 +305	+115 +195 +310	+120 +200 +320	+130 +200 +330	+130 +210 +340	+140 +210 +350	+140 +220 +360	+150 +220 +370
Retarder	+73 +16 +89	+73 +16 +89	+74 +15 +89	+75 +14 +89	+75 +14 +89	+76 +13 +89	+76 +13 +89	+77 +12 +89	+77 +12 +89
180Ah Batteries	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17
225Ah Batteries	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56	+46 +10 +56
Std. Tank Full	+147 +77 +224	+150 +74 +224	+152 +72 +224	+155 +69 +224	+157 +67 +224	+160 +64 +224	+162 +62 +224	+164 +60 +224	+166 +58 +224
*1 x 450l G	+80 +91 +171	+84 +87 +171	+87 +84 +171	+90 +81 +171	+93 +78 +171	+96 +75 +171	+98 +73 +171	+100 +71 +171	+103 +68 +171
Vertical exh outlet	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57	+45 +12 +57
CP14 cab	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33
CP19 sleeper cab	+119 -13 +106	+119 -13 +106	+119 -13 +106	+119 -13 +106	+119 -13 +106	+119 -13 +106	+119 -13 +106	+119 -13 +106	+119 -13 +106
Air deflectors-CP14	+40 +2 +42	+40 +2 +42	+40 +2 +42	+40 +2 +42	+40 +2 +42	+40 +2 +42	+40 +2 +42	+40 +2 +42	+40 +2 +42
-CP16	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42
-CP19	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42	+39 +3 +42
EG Series PTOs	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18
EK Series PTOs	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47

* Additional to standard tank full of fuel.

SCANIA

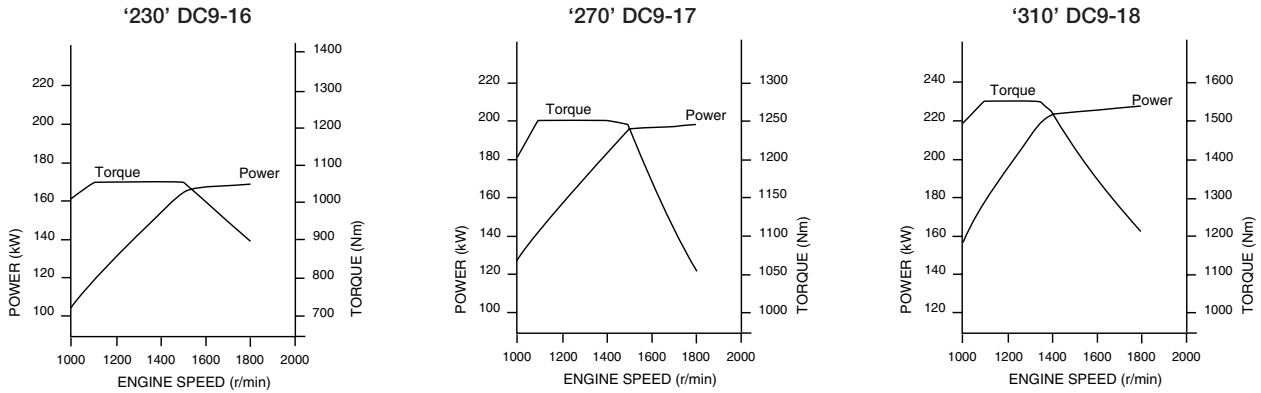
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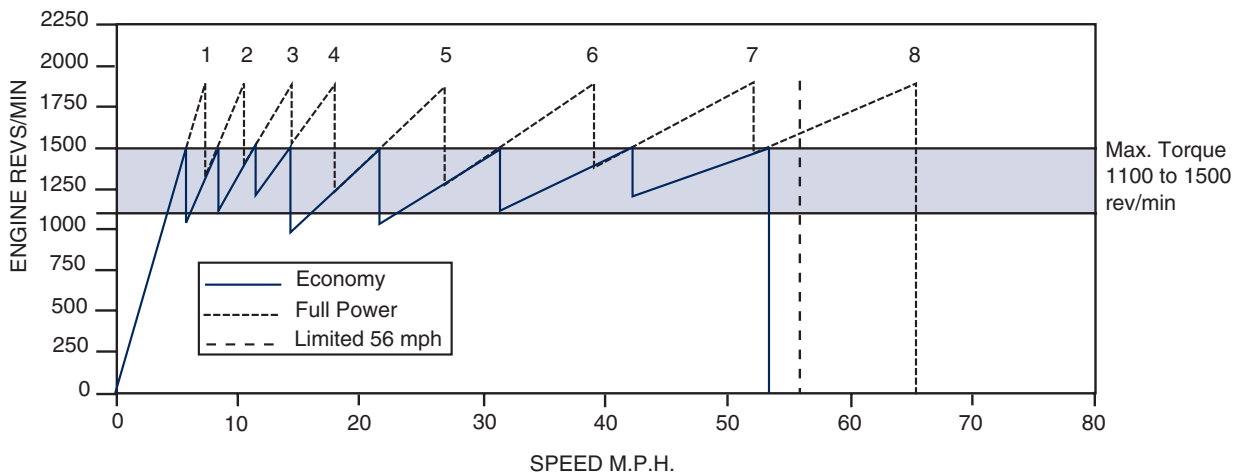
THREE AXLE RIGID/DRAWBAR

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				
		DC9-16 26T	DC9-17		DC9-18	
			26T	40T\$	26T	40T\$
R 660 2.92*	50 - 54	21.5	26.2	31.0	33.4	>35
R 660 3.07	54 - 56	19.9	24.1	28.5	30.7	>35
R 660 3.42 std.	48 - 51	22.3	27.1	32.1	34.7	>35
R 660 3.80	43 - 46	25.0	30.5	>35	>35	>35
R 660 4.22	39 - 42	28.0	34.3	>35	>35	>35
R 660 4.88	34 - 36	32.9	>35	>35	>35	>35

\$40T calculations shown with GR905 gearbox. *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.



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