SCANIA

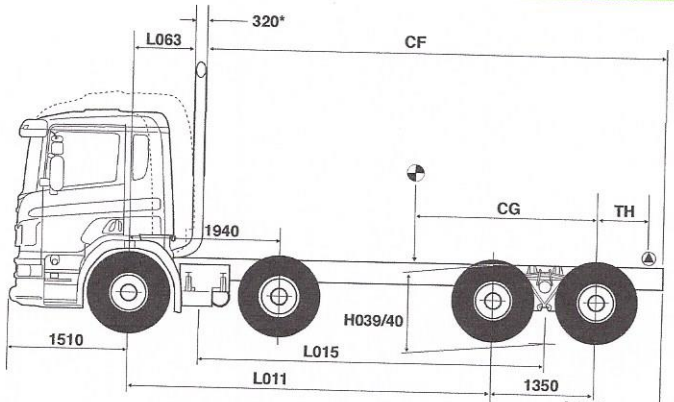
SPECIFICATION

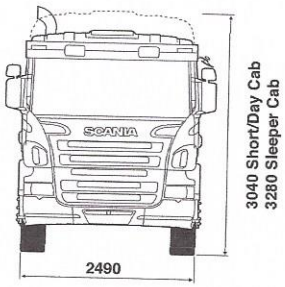
P-, G- and R-series

P 370 CB8x4MHZ
Euro 6
36000Kg GVW

FOUR AXLE TIPPER

P





L063 (centreline of front axle to back of cab) Short – 300 Day – 590 Sleeper – 860

*Reduces to 250mm with sleeper cab

DIMENSIONS (mm)

L011		5100	5300	5500	5700
L100	Short Cab	6858	7088	7315	7620
	(feet)	(22.5)	(23.25)	(24.0)	(25.0)
	Day	6630	6858	7088	7315
	(feet)	(21.75)	(22.5)	(23.25)	(24.0)
	Sleeper	N/A	6248	6630	6858
	(feet)		(20.5)	(21.75)	(22.5)
CF	Short Cab	6640	6840	7040	7240
	Day	6350	6550	6750	6950
	Sleeper	6150	6350	6550	6750
L020		2160	2160	2160	2160
CG Max	Short Cab	2279	2347	2413	2477
	Day	2272	2340	2405	2469
	Sleeper	2262	2330	2394	2457
CG Min	Short Cab	2024	2081	2135	2188
	Day	2016	2073	2127	2179
	Sleeper	2005	2061	2115	2167
TH		730	730	730	730

Frame Height	H039 unladen	H040 laden
'H'	1110mm	1062mm
'S'	1060mm	1012mm

L015 (Theoretical wheelbase) = L011 - 295mm.
L100 = Nominal tipper bodylength to suit weight distribution. CG dimension for body and payload calculated for standard model at standard GB plated weights. TH = Tipper hinge. Height dimensions measured to top of frame at rear bogie centreline.

PLATED WEIGHTS – AWR

		Front Bogie	Rear Bogie	GVW	GTW†
Design Gross	Kg	15000*	21000	36000	39500
Legal Max in GB	Kg	14200	19000	32000	35500

† With trailer brakes design = 60000 kg. Max. in GB = 44000 kg.
Rear bogie load in GB (with trailer attached) = 17000 kg
* 14200Kg with 2x32mm front springs.
Plated weights dependent on statutory tyre limitations.

CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

Axle distance	Front Bogie	Rear Bogie	Total (kg)
5100	6544	2728	9272
5300	6548	2764	9312
5500	6554	2768	9322
5700	6574	2783	9357

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

ENGINE (EURO 6)

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

	'370'
Type:	**DC13-116**
Swept Volume:	12.74 litres
Bore:	130 mm
Stroke:	160 mm
Compression Ratio:	20:1
***Max. Power:**	272kW (370 h.p.) at 1900 rev/min
***Max. Torque:**	1900 Nm (1401 lbf.ft) between 1000 and 1300 rev/min
Engine Management System:	EMS – incorporating Cruise Control and speed limiter
Emission Control:	Scania EGR/SCR
Cooling:	Water cooled with rubber mounted 2 row radiator and electronically regulated fan
Coolant Capacity:	55 litres
Oil Capacity:	40 litres
Air Cleaner:	Dry replaceable paper element
Engine Driven P.T.O. provision:	ED120

Options:-

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

	'410'
Type:	**DC13-115**
***Max. Power:**	302kW (410 h.p.) at 1900 rev/min
***Max. Torque:**	2150 Nm (1586 lbf.ft) between 1000 & 1300 rev/min
Emission Control:	Scania SCR

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

	'450'
Type:	**DC13-124**
***Max. Power:**	331kW (450 h.p.) at 1900 rev/min
***Max. Torque:**	2350 Nm (1733 lbf.ft) between 1000 & 1300 rev/min
Emission Control:	Scania EGR/SCR

*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:	16.5 litres (17.5 litres with oil cooler)

Options:- ***(1)*** *Oil cooler – standard with DC13-124 engine*

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 GRS0905 fourteen speed range change/splitter including 2 crawler gears and overdrive top gear.*

(3) Opticruise: *Gearchange management system. Only with GRS gearboxes and Traction Control.*

REAR AXLES

Type:	Both Scania AD1300
Capacity:	26000 Kg

Pressed steel housing with magnetic oil drain plugs.

Option:-

(1) Type: *Both Scania AD1101P for hub reduction axles. Capacity: 23000Kg*

REAR AXLE GEAR

Type:	Scania RB662 - first axle / 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.

Option:-

***(1)* Type:**	Scania RBP735 - first axle RP735 - second axle

Single reduction spiral bevel plus epicyclic hub reduction.

Overall ratios - 3.67 / 4.05 / 4.35 / 4.66

FRONT AXLES

Type:	Scania AM900 I section rigid beam -'H' chassis. Scania AM920 I section rigid beam - 'S' chassis
Capacity:	9000Kg each

STEERING

Type:	Recirculating ball. Hydraulically assisted power steering
Steering wheel:	Diameter 450mm. Lock to lock 4.9 turns
Turning circle:	Kerb to kerb

5.1m A/D 21.4m 5.3m A/D 22.2m 5.5m A/D 22.9m 5.7m A/D 23.6m

SUSPENSION

Type Front:	Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins damped by double acting telescopic shock absorbers.
Type Rear:	Two spring balance beam bogie fitted with rubber mounted radius arms and double acting telescopic shock absorbers.

Options:-

(1) *Rear or front and rear anti-roll bar(s) – rear N/A with tipper specification.*

SPRING SIZE

	Front 1	Front 2	Rear
Length:	1820mm	1820mm	1530mm
No. of leaves:	3 x 29mm	3 x 29mm	4 x 41mm
Design Capacity:	8500Kg	8500Kg	21000Kg

Options:-

(1) *Semi-elliptic parabolic springs (Z) front (2 x 32mm) – design capacity 7500Kg.* ***(2)*** *Progressive parabolic rear springs – 2 x 38mm + 2 x 45mm.*

WHEELS & TYRES

Front:	8.25 x 22.5 ten stud spigot mounted disc wheels fitted with 295/80R22.5 radial tubeless tyres.
Rear:	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 tyres – front axles only.*
(3) *Aluminium wheels – machined or polished surface finish.*
(4) *Front wheel embellishers.*

FRAME

Type: F950-50 for 'M' class
F958–50 for 'H' class

Flat top constant depth 'U' channel with riveted crossmembers

Sidemember Dimensions:
F950–50 – 270 x 90 x 9.5mm
F958–50 – 270 x 90 x 9.5mm External member
247 x 78 x 8mm Internal member

Rear of chassis prepared for tipper hinge – 5.1 to 5.7m axle distance and F950-50 frame only. Width over parallel section of frame = 770mm

Bumper: Pressed steel

Options:- ***(1)*** *Brackets for front end tipping ram - only with F950 frame and day cabs.* ***(2)*** *F958 frame. (N/A with preparation for tipper hinge).* ***(3)*** *Aerodynamic bumper incorporating FUP – reduces front overhang to 1460mm.* ***(4)*** *Centre tow-pin – steel bumper only.*

BRAKE SYSTEM

Type:	Dual circuit, full air, EC brake system incorporating category 1 ABS. 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 second front and first rear axle.
Parking Brake:	Actuates spring chambers on second front and first rear axle.
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*
(3) *Traction control – Anti-slip device*

BRAKE DIMENSIONS

Front Axle 1:	Size	413 x 203mm	**Front Axle 2:**	Size	413 x 203mm
	Area	1880cm²		Area	1880cm²
Rear Axle 1:	Size	413 x 203mm	**Rear Axle 2:**	Size	413 x 203mm
	Area	1880cm²		Area	1880cm²
Total Area:	Service	7520cm²			
	Parking	3760cm²			

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)*** *150A alternator.*
(3) *Bodywork electrical preparation – see separate document.*

FUEL TANK

1 x 300 litre steel RHS

AdBlue tank on RHS - capacity 47 litres.

Options:- *Capacity - 80 litres*

Fuel Tank Options:- (*Minimum axle distance in brackets*)

Steel - G		*Aluminium - W*	
LH side	***RH side***	***LH side***	***RH side***
200	*200*	*300*	*300*
300(5500)	*300*	*350(5300)*	*350*
	450(5300)	*500(5700)*	*500*
			600(5300)

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

GENERAL EQUIPMENT

Vertical exhaust outlet – N/A with ADR to EXII/EXIII or FL

Front tow pin

Options:-

(1) *ADR to EXII/EXIII, FL, OX or AT*

INSTRUMENTS & CONTROLS

Two man, 1 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 intermittent wipe and 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

For applicability and specification information please visit :-

www.scania.co.uk/trucks/ > Bodybuilder > Bodywork Information > Power take-offs and hydraulics.

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

Axle Distance	51	53	55	57
DC13-115 engine	–57 +4 –53	–57 +4 –53	–57 +4 –53	–57 +4 –53
GRS905/GRSO905	+6 +3 +9	+6 +3 +9	+6 +3 +9	+6 +3 +9
AD1101P R/Axles	0 +64 +64	0 +64 +64	0 +64 +64	0 +64 +64
Anti-roll bars	+50 +48 +98	+50 +48 +98	+50 +48 +98	+50 +48 +98
2 x 32mm F/Springs	–84 0 –84	–84 0 –84	–84 0 –84	–84 0 –84
2 x 38mm + 2 x 45mm rear	0 +9 +9	0 +9 +9	0 +9 +9	0 +9 +9
315/80 tyres/9.00 rims	+36 +72 +108	+36 +72 +108	+36 +72 +108	+36 +72 +108
385/65 tyres/11.75 rims	+92 N/A +92	+92 N/A +92	+92 N/A +92	+92 N/A +92
Aluminium wheels				
8.25 x 22.5	–48 –96 –144	–48 –96 –144	–48 –96 –144	–48 –96 –144
9.00 x 22.5	–60 –120 –180	–60 –120 –180	–60 –120 –180	–60 –120 –180
11.75 x 22.5	–88 N/A –88	–88 N/A –88	–88 N/A –88	–88 N/A –88
F/E ram brackets	+51 –3 +48	+51 –3 +48	+51 –3 +48	+51 –3 +48
Delete tipper hinge prep.	+24 –99 –75	+24 –99 –75	+24 –99 –75	+24 –99 –75
F958 frame	+116 +182 +298	+122 +187 +309	+128 +192 +320	+133 +192 +325
Aerodynamic bumper	–19 +2 –17	–19 +2 –17	–19 +2 –17	–19 +2 –17
Centre tow pin	+29 –5 +24	+29 –5 +24	+29 –5 +24	+29 –5 +24
Retarder	+102 +20 +122	+102 +20 +122	+103 +19 +122	+104 +18 +122
180 Ah Batteries	+17 0 +17	+17 0 +17	+17 0 +17	+17 0 +17
Std Tank Full	+120 +104 +224	+124 +100 +224	+128 +96 +224	+132 +92 +224
*1 x 450l G	N/A	+54 +87 +141	+57 +84 +141	+60 +81 +141
CP14 Cab	–51 –4 –55	–51 –4 –55	–51 –4 –55	–51 –4 –55
CP19 Sleeper Cab	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79
EG Series PTOs	+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

* Additional to standard tank full of fuel.

SCANIA

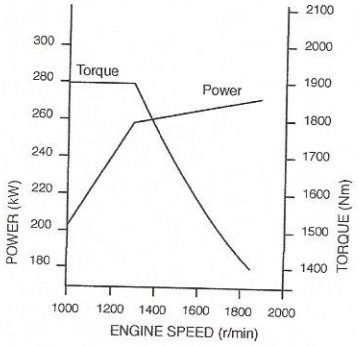
SPECIFICATION

P 370 CB8x4MHZ
Euro 6
36000Kg GVW

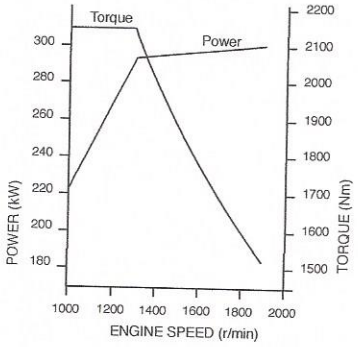
FOUR AXLE TIPPER

ENGINE PERFORMANCE

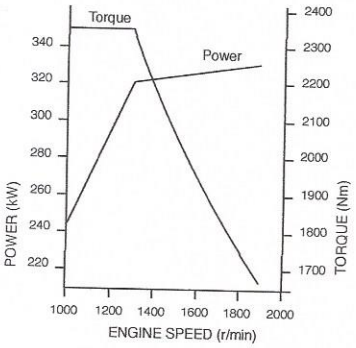
'370' DC13-116



'410' DC13-115

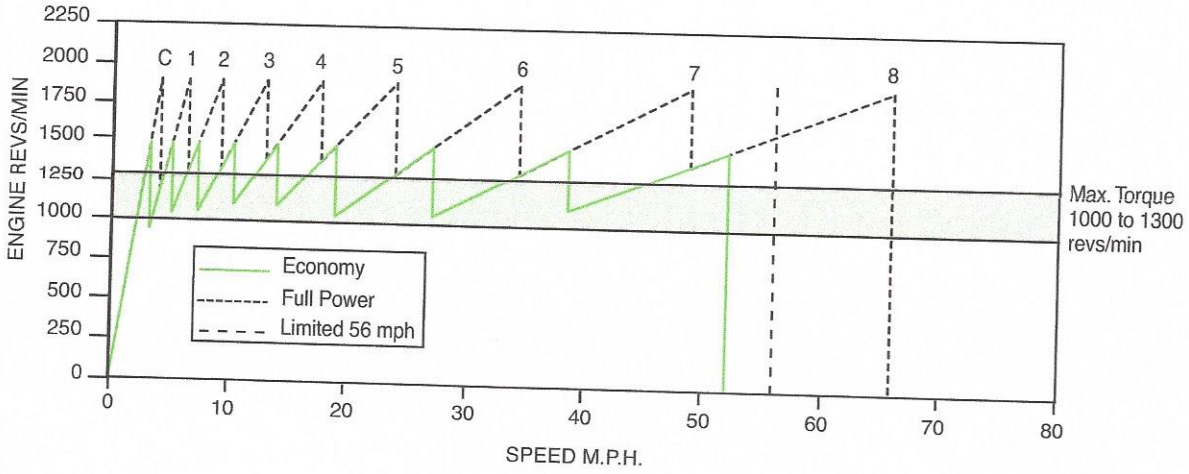


'450' DC13-124



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					
			DC13-116		DC13-115		DC13-124	
			32T	44T	32T	44T	32T	44T
RB 662	2.92	46 – 56	33.5	23.9	>35	27.3	>35	30.0
RB 662	3.07	43 – 56	>35	25.2	>35	28.8	>35	31.6
RB 662	3.42 std.	39 – 51	>35	28.3	>35	32.3	>35	>35
RB 662	3.80	35 – 46	>35	31.7	>35	>35	>35	>35
RB 662	4.22	32 – 42	>35	>35	>35	>35	>35	>35
RB 662	4.88	27 – 36	>35	>35	>35	>35	>35	>35

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.

SCANIA
www.scania.co.uk

Scania (Great Britain) Limited,
Tongwell, Milton Keynes MK15 8HB
Telephone: 01908 210210 Fax: 01908 215040

SL5451301/02.14