

# SCANIA

SPECIFICATION

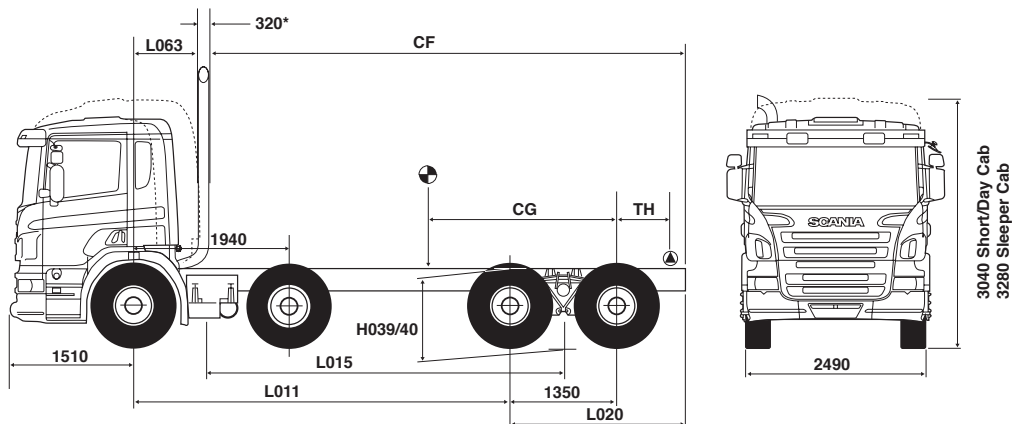
P-, G- and R-series

## P 360 CB8x4MHZ

34000Kg 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)

<b>L011</b>		5100	5300	5500	5700	5900
<b>L100</b>	Short Cab	6858	7088	7315	7620	7925
	(feet)	(22.5)	(23.25)	(24.0)	(25.0)	(26.0)
	Day	6630	6858	7088	7315	7620
	(feet)	(21.75)	(22.5)	(23.25)	(24.0)	(25.0)
	Sleeper	N/A	6248	6630	6858	7087
	(feet)		(20.5)	(21.75)	(22.5)	(23.25)
<b>CF</b>	Short Cab	6640	6840	7040	7240	7440
	Day	6350	6550	6750	6950	7150
	Sleeper	6150	6350	6550	6750	6950
<b>L020</b>		2160	2160	2160	2160	2160
<b>CG Max</b>	Short Cab	2333	2400	2467	2535	2602
	Day	2328	2395	2462	2529	2596
	Sleeper	2311	2377	2443	2509	2575
<b>CG Min</b>	Short Cab	2081	2137	2194	2250	2307
	Day	2075	2132	2188	2244	2300
	Sleeper	2057	2112	2168	2223	2278
<b>TH</b>		730	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. 5.9m axle distance model designed for bulk tipping operations with free flowing loads.

### PLATED WEIGHTS – AWR

		Front Bogie	Rear Bogie	GVW	GTW†
Design					
Gross	Kg	15000*	21000	34000	37500
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	6184	2791	8975
5300	6194	2796	8990
5500	6201	2799	9000
5700	6208	2802	9010
5900	6215	2805	9020

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

## P 360 CB8x4MHZ

SL5451081  
July 09

## 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 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

1st 10.34:1  
 2nd 7.19:1  
 3rd 5.08:1  
 4th 3.75:1

### High Range

5th 2.76:1  
 6th 1.92:1  
 7th 1.35:1  
 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 / 3.93 / 4.22

## FRONT AXLES

**Type:** Scania AM900 | section rigid beam - 'H' chassis.  
 Scania AM920 | 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  
 5.9m A/D 24.4m

## 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
<b>Length:</b>	1820mm	1820mm	1530mm
<b>No. of leaves:</b>	3 x 29mm	3 x 29mm	4 x 41mm
<b>Design Capacity:</b>	8500Kg	8500Kg	21000Kg

### Options:-

(1) Semi-elliptic parabolic springs (Z) front (2 x 32mm) – design capacity 7500Kg

## 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 5.9m 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 - N/A with F958 frame or sleeper cab. (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

<b>Type:</b>	Dual circuit, full air, EC brake system incorporating category 1 ABS. Brake pipes manufactured from either rust protected steel or high impact synthetics
<b>Service Circuit:</b>	Actuates all truck brakes
<b>Secondary Circuit:</b>	First position of park brake lever actuates spring chambers on second front and first rear axle.
<b>Parking Brake:</b>	Actuates spring chambers on second front and first rear axle.
<b>Exhaust Brake:</b>	Air actuated operated by brake pedal
<b>Brake Antifreeze Protection:</b>	Air dryer
<b>Brake Wear Adjusters:</b>	Automatic
<b>Options:-</b>	(1) 2 line EC trailer brake pipes to rear section of chassis. (2) Scania hydraulic retarder (3) Traction control – Anti-slip device

## BRAKE DIMENSIONS

<b>Front Axle 1:</b>	Size 413 x 178mm Area 1640cm <sup>2</sup>	<b>Front Axle 2:</b>	Size 413 x 178mm Area 1640cm <sup>2</sup>
<b>Rear Axle 1:</b>	Size 413 x 203mm Area 1880cm <sup>2</sup>	<b>Rear Axle 2:</b>	Size 413 x 203mm Area 1880cm <sup>2</sup>
<b>Total Area:</b>	Service 7040cm <sup>2</sup> Parking 3520cm <sup>2</sup>		

## ELECTRICAL SYSTEM

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

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

## FUEL TANK

1 x 300 litre steel RHS

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

	RH Side	LH Side	RH Side	LH Side
<b>Steel – G 200</b>		200(5300)	<b>Aluminium – W 300</b>	300(5300)
	300	300(5700)	350	350(5500)
	450(5300)		500	500(5900)
			600(5300)	

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

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 Check gearbox availability

	Rear Mount	GR875 / GRS895 / GR/S905	GRSO905
Pump	Flange		
<sup>1</sup> EG640P	<sup>1</sup> EG640F	1.65 / 2.04H	
<sup>1</sup> EG641P	<sup>1</sup> EG641F		1.33 / 1.67H
EG650P	EG660F	1.00 / 1.24H	
<sup>1</sup> EG651P	<sup>1</sup> EG661F	1.28 / 1.58H	
EG652P	EG662F		0.82 / 1.03H
<sup>1</sup> EG653P	<sup>1</sup> EG663F		1.03 / 1.29H
	<b>Side Mount</b>		
EG500P	EG500F	1.33 / 1.65H	
EG501P	EG501F		1.78 / 2.22H
<sup>2</sup> EG502P	<sup>2</sup> EG502F	1.33 / 1.65H	
<sup>2</sup> EG503P	<sup>2</sup> EG503F		1.78 / 2.22H
	<b>Sandwich</b>		
EK730	EK740	1.00	1.00

<sup>1</sup> = Not in combination with side mounted P.T.O.

<sup>2</sup> = 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

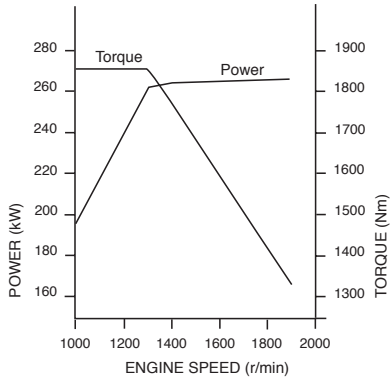
## WEIGHTS FOR OPTIONAL EQUIPMENT IN KILOGRAMS (Front – Rear – Total)

Axle Distance	51	53	55	57	59
GRS905/GRSO905	+6 +3 +9	+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	0 +64 +64
Anti-roll bars	+50 +48 +98	+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	-84 0 -84
315/80 tyres/9.00 rims	+36 +72 +108	+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	+92 N/A +92
Aluminium wheels					
8.25 x 22.5	-48 -96 -144	-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	-60 -120 -180
11.75 x 22.5	-88 N/A -88	-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	+51 -3 +48
Delete tipper hinge prep.	+24 -99 -75	+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	+140 +198 +338
Aerodynamic bumper	-19 +2 -17	-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	+29 -5 +24
Retarder	+102 +20 +122	+102 +20 +122	+103 +19 +122	+104 +18 +122	+105 +17 +122
180 Ah Batteries	+17 0 +17	+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	+135 +89 +224
*1 x 450l G	N/A	+54 +87 +141	+57 +84 +141	+60 +81 +141	+63 +78 +141
CP14 Cab	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33
CP19 Sleeper Cab	+65 +15 +80	+65 +15 +80	+65 +15 +80	+65 +15 +80	+65 +15 +80
EG Series PTOs	+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

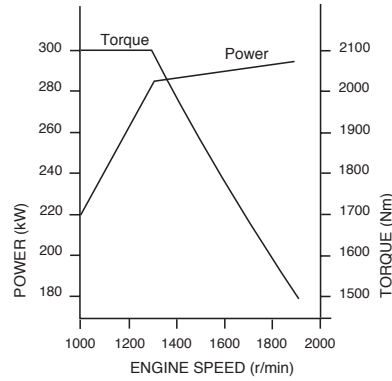
\* Additional to standard tank full of fuel.

### ENGINE PERFORMANCE

'360' DC13-06

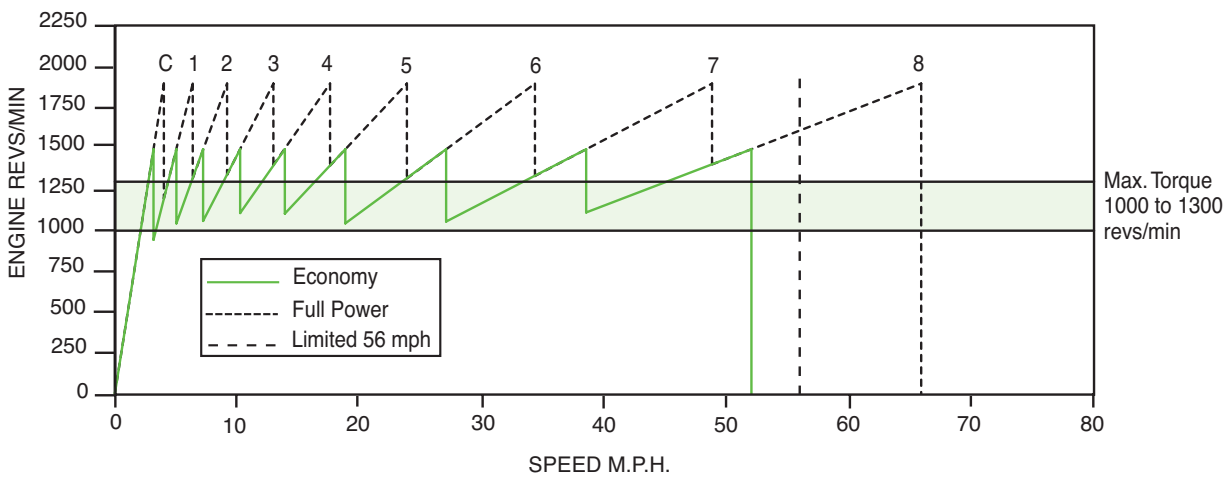


'400' DC13-05



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	
		32T	44T	32T	44T
RB 662 3.07	43 - 56	>35	>35	>35	>35
RB 662 3.42 std.	39 - 51	>35	>35	>35	>35
RB 662 3.80	35 - 46	>35	>35	>35	>35
RB 662 4.22	32 - 42	>35	>35	>35	>35
RB 662 4.88	27 - 36	>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.

