

# SCANIA

SPECIFICATION

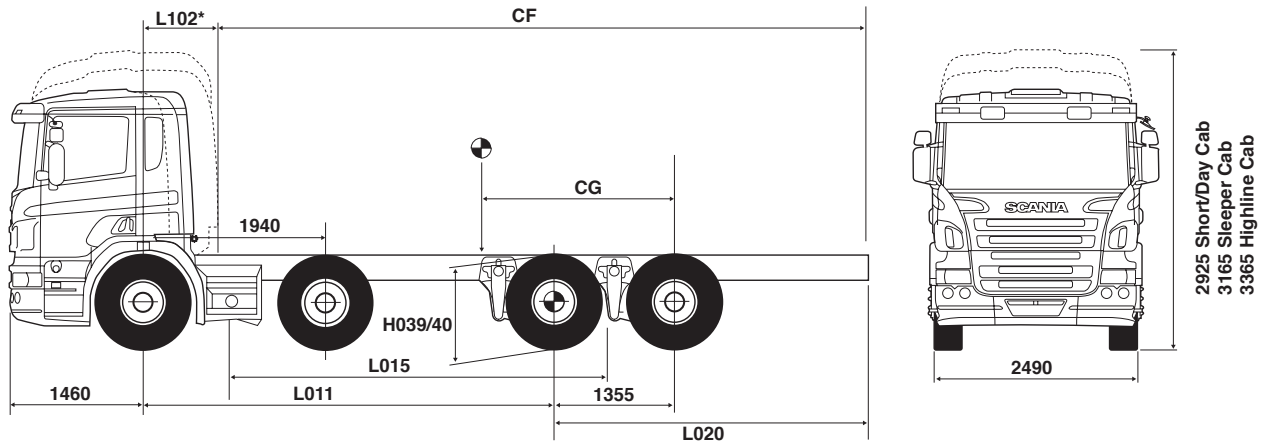
P-, G- and R-series

## P 360 LB8x2\*6HSA

33200Kg GVW/60000Kg GTW

FOUR AXLE RIGID (REAR STEER)

# P



L102 (centreline of front axle to start of bodywork) Short – 450 Day – 610 Sleeper – 875

\* Increases by 15mm with air deflectors

### DIMENSIONS (mm)

<b>L011</b>		5100	5300	5500	5700	5900
<b>L015</b>		4668	4868	5068	5268	5468
<b>BLR</b>	Day cab	7384	7664	7942	8217	8496
	(feet)	(24.2)	(25.1)	(26.0)	(27.0)	(27.9)
	Sleeper	6876	7152	7429	7707	7986
	(feet)	(22.6)	(23.4)	(24.4)	(25.3)	(26.2)
<b>CF</b>	Day cab	7380	7660	7940	8210	8490
	Sleeper	6875	7145	7425	7705	7985
<b>L020</b>	Day cab	2890	2970	3050	3120	3200
	Sleeper	2650	2720	2800	2880	2960
<b>L020 Max</b>		4000	4000	4000	4000	4000
<b>CG Max</b>	Day cab	2397	2468	2540	2612	2684
	Sleeper	2387	2460	2533	2605	2676
<b>CG Min</b>	Day cab	2153	2213	2274	2335	2396
	Sleeper	2142	2204	2266	2326	2387

H039 unladen = 1012mm H040 laden = 979mm

BLR = Max. bodylength to suit weight distribution. CG dimension for body and payload calculated for standard model at standard GB plated weights. Height dimensions measured to top of frame at rear axle centreline – 315/80R22.5 tyres. Rear overhang (L020) can be specified in 10mm steps up to maximum – check legality.

### PLATED WEIGHTS – AWR

	Front Bogie	Drive Axle	Trailing Axle	GVW	GTW
Design					
Gross Kg	14200	11500	7500	33200	60000
Legal Max in GB Kg	14200	11500	7500	32000	44000

¶ Increases to 17000kg Design with either 3 x 29mm or 4 x 28mm front springs.

Plated weights dependent on statutory tyre limitations.

### CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

Axle distance	Front Bogie	Rear Bogie	Total (kg)
5100	6289	2600	8889
5300	6279	2642	8921
5500	6267	2686	8953
5700	6258	2728	8986
5900	6250	2769	9019

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

## P 360 LB8x2\*6HSA

SL5451096  
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 GRS905 fourteen speed with synchromesh on all except two crawler gears. Incorporating range change and splitter.  
**Oil Capacity:** 15.6 litres

## GEAR RATIOS

	Low Range Split		High Range Split	
	L	H	L	H
<b>Crawler</b>	16.41	13.28		
<b>1st</b>	11.32	9.16	7.19	5.82
<b>2nd</b>	4.63	3.75	3.02	2.44
<b>3rd</b>	1.92	1.55	1.24	1.00
<b>Reverse</b>	14.77			

### Options:-

**(1) Type:** Scania GR905 nine speed range change including one crawler gear.

**(2) Type:** Scania GRS0905 fourteen speed range change including 2 crawler gears and overdrive top gear.

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

## REAR AXLES

**Type:** Scania: Driving ADA1300 Trailing ARA900  
**Capacity:** Combined 19000 Kg  
 Pressed steel housing with magnetic oil drain plug.

## REAR AXLE GEAR

**Type:** Scania R780  
 Single reduction hypoid. Crown wheel and pinion matched during manufacture. Pneumatically operated differential lock.

## FRONT AXLES

**Type:** Scania AM920 I section rigid beam  
**Capacity:** AM920 - 9000Kg each

## STEERING

**Type:** Recirculating ball. Hydraulically assisted power steering to first and last axle.  
**Steering wheel:** Diameter 450mm. Lock to lock 4.9 turns  
**Turning circle:** Kerb to kerb  
 5.1m A/D 18.5m 5.3m A/D 19.2m 5.5m A/D 19.9m  
 5.7m A/D 20.6m 5.9m A/D 21.3m

## SUSPENSION

**Type Front:** Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins damped by double acting telescopic shock absorbers.

**Type Rear:** Quarter elliptic with air bellows (A) on both axles.  
 (2 bag) Pneumatic tag-axle hoist. Chassis height may be raised or lowered to assist loading. Doubles acting telescopic shock absorbers are fitted to both axles.

### Options:-

**(1) Anti-roll bar front.**

## SPRING SIZE

	Front 1	Front 2
<b>Length:</b>	1820mm	1820mm
<b>No. of leaves:</b>	2 x 32mm	2 x 32mm
<b>Design Capacity:</b>	7500Kg	7500Kg

### Options:-

**(1) 3 x 29mm leaves – design capacity 8500Kg**

**(2) 4 x 28mm leaves – design capacity 9000Kg**

## WHEELS & TYRES

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

**Drive:** 9.00x22.5 ten stud spigot mounted disc wheels fitted with 315/80R22.5 radial tubeless tyres.

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

### 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 axles only.**

## FRAME

**Type:** F958  
 Flat top constant depth 'U' channel with riveted crossmembers

**Sidemember Dimensions:**  
 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

<b>Type:</b>	Ventilated disc brakes on all axles. Dual circuit, full air, EC brake system incorporating Category 1 ABS and Traction Control. 2 line EC trailer brake pipes to rear section of chassis. Electronic signalling with pneumatic back-up. Pad wear indicator. Brake pipes manufactured from either rust protected steel or high impact synthetics
<b>Service Circuit:</b>	Actuates all truck and trailer brakes.
<b>Secondary Circuit:</b>	First position of park brake lever actuates spring brakes plus trailer brakes.
<b>Parking Brake:</b>	Actuates spring chambers on second front and both rear axles.
<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) Scania hydraulic retarder.

## BRAKE DIMENSIONS

<b>Pad lining area:</b>	2 x 190cm <sup>2</sup> on all axles
<b>Swept area of each disc:</b>	2 x 940cm <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 aluminium RHS

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

RH Side Steel - G	LH Side	RH Side Aluminium - W	LH Side
200	150 (5300)	300	200 (5300)
300	200 (5500)	350	300 (5500)
450 (5300)	300 (5700)	500	350 (5500)
		600 (5300)	500 (5900)

Tank sizes can be supplied in LH and 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 – N/A with ADR to EXIII/EXIII or FL.
- (2) ADR to EXIII/EXIII, FL, OX or AT.

## 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

**CP16 Day Cab**

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

**Options:-**

- (1) CP19 Sleeper Cab
- (2) CP14
- (3) CP19 Highline Cab

## P.T.O. OPTIONS Check gearbox availability

Rear Mount		GR875 / GRS895 / GR/S905	GRS0905
Pump	Flange		
<sup>1</sup> EG640P	<sup>1</sup> EG640F	1.65 / 2.04H	1.33 / 1.67H
<sup>1</sup> EG641P	<sup>1</sup> EG641F		
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
Side Mount			
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
Sandwich			
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

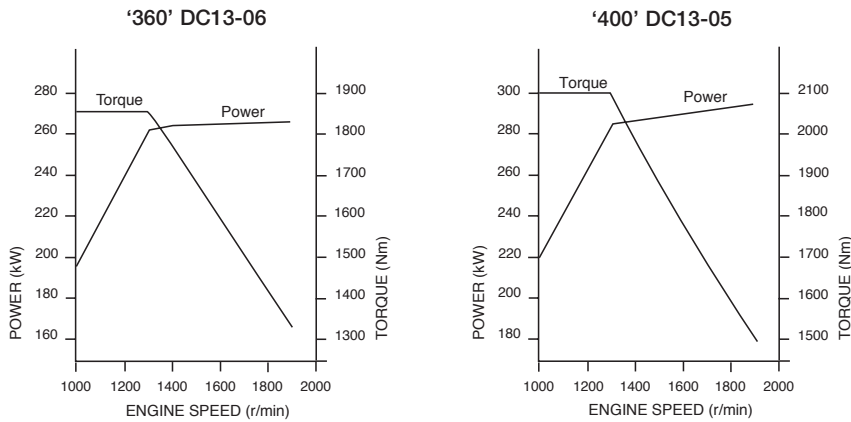
## WEIGHTS FOR OPTIONAL EQUIPMENT IN KILOGRAMS (Front – Rear – Total)

Axle Distance	51	53	55	57	59
GR905 Gearbox	-6 -3 -9	-6 -3 -9	-6 -3 -9	-6 -3 -9	-6 -3 -9
Front anti-roll bar	+50 -6 +44	+50 -6 +44	+50 -6 +44	+50 -6 +44	+50 -6 +44
3 x 29mm F/Springs	+84 0 +84	+84 0 +84	+84 0 +84	+84 0 +84	+84 0 +84
4 x 28mm F/Springs	+142 0 +142	+142 0 +142	+142 0 +142	+142 0 +142	+142 0 +142
385/55 tyres/11.75 rims	+60 N/A +60	+60 N/A +60	+60 N/A +60	+60 N/A +60	+60 N/A +60
385/65 tyres/11.75 rims	+76 N/A +76	+76 N/A +76	+76 N/A +76	+76 N/A +76	+76 N/A +76
Aluminium wheels					
8.25 x 22.5	-48 -96 -144	-48 -96 -144	-48 -96 -144	-48 -96 -144	-48 -96 -144
9.00 x22.5	-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
Steel bumper + FUP	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54	+67 -13 +54
Centre tow pin	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24	+29 -5 +24
Retarder	+103 +19 +122	+104 +18 +122	+104 +18 +122	+104 +18 +122	+105 +17 +122
180 Ah batteries	+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
Std Tank Full	+119 +105 +224	+124 +100 +224	+128 +96 +224	+131 +93 +224	+135 +89 +224
*1 x 500l W	+116 +67 +103	+119 +64 +103	+122 +61 +103	+124 +59 +103	+126 +57 +103
Vertical exh outlet	+44 +13 +57	+44 +13 +57	+44 +13 +57	+44 +13 +57	+44 +13 +57
CP14 cab	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33	-35 +2 -33
CP 19 Sleeper cab	+65 +15 +80	+65 +15 +80	+65 +15 +80	+65 +15 +80	+65 +15 +80
CP 19 Highline cab	+89 +21 +110	+89 +21 +110	+89 +21 +110	+89 +21 +110	+89 +21 +110
Air deflectors – CP14	+40 +2 +42	+40 +2 +42	+40 +2 +42	+40 +2 +42	+40 +2 +42
– CP16/19/19H	+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
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

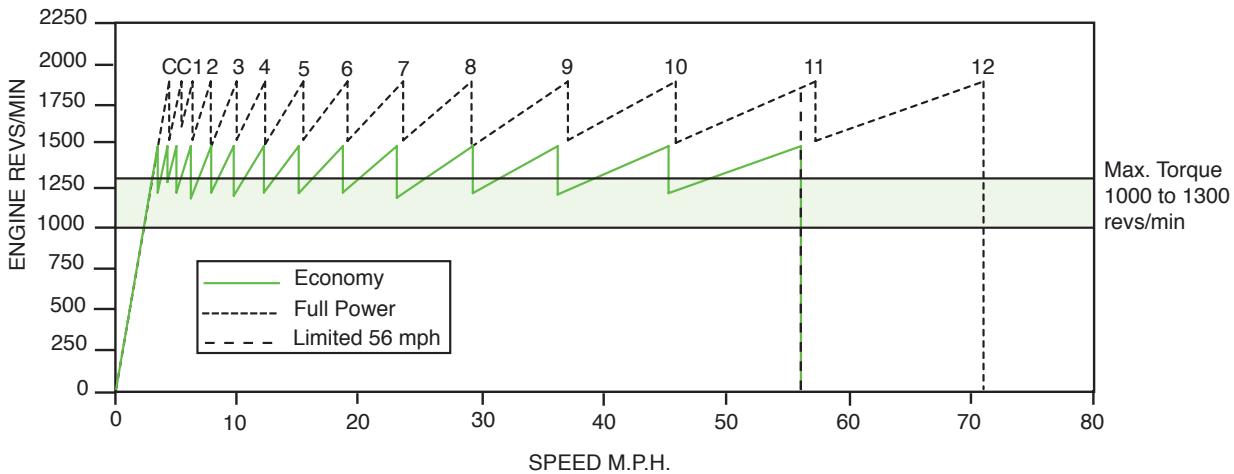
**P 360 LB8x2\*6HSA**

### 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			
		DC13-06		DC13-05	
		44T	60T	44T	60T
R 780 2.71*	48 - 56	>35	25.6	>35	29.5
R 780 2.92*	44 - 56	>35	27.8	>35	32.0
R 780 3.08	44 - 56	>35	27.6	>35	31.8
R 780 3.27 Std	42 - 55	>35	29.5	>35	34.0
R 780 3.40	40 - 53	>35	31.0	>35	>35
R 780 3.80	36 - 48	>35	34.9	>35	>35

\*2.71 and 2.92 only available with low profile tyres. Calculations based on 315/70R22.5 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.**

