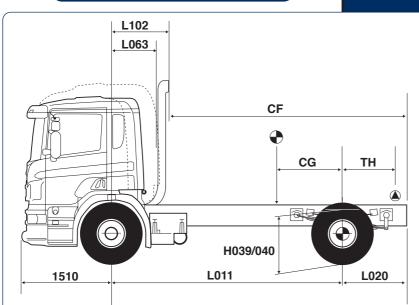
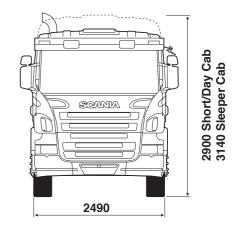


P-, G- and R-series

# P 250 DB4x2HNZ Euro 6 19000Kg GVW TWO AXLE TIPPER





L063 (centreline of front axle to back of cab) Short – 295 Day – 590 Sleeper – 860 L102 (centreline of front axle to front of body) Short – 710 Day – 830 Sleeper – 1130

#### **DIMENSIONS (mm)**

L011		3900	4300	4500	4700	
L100	Day Cab	4585	5181	5486*	5791*	
	(feet)	(15.0)	(17.0)	(18.0)	(19.0)	
CF		4190	4590	4790	4990	
L020		1200	1200	1200	1200	
L020 Max		3600	4000	4000	4000	
CG Max		802	879	915	956	
CG Min		600	654	680	710	
тн		1030	1030	1030	1030	

H039 unladen = 1073mm H040 laden = 958mm.

L100 = Tipper bodylength to suit weight distribution.\*=Subframe requirements subject to application. 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 axle centreline. Rear overhang (L020) can be specified in 10mm steps up to maximum – check legality.

#### **PLATED WEIGHTS – AWR**

		Front Axle	Rear Axle	GVW	GTW\$
Design Gross	Kg	7500†	11500	19000	22500
Legal Max in GB	Kg	7100*	11500	18000	21500

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

\*Legal front axle capacity limited by tyres.

\$ GTW 28000kg design and GB when fitted with trailer brakes. Increases to 40000kg with '280', '320' or '360' engine.

GR905 gearbox recommended as minimum.

Plated weights dependent on statutory tyre limitations.

#### CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

Axle distance	Front	Rear	Total (kg)
3900	4576	1706	6282
4300	4599	1743	6342
4500	4609	1748	6357
4700	4609	1758	6367

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

# P 250 DB4x2HNZ

# IGINE (EURO 6)

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

	'250'
Туре:	DC09-111
Swept Volume:	9.3 litres
Bore:	130 mm
Stroke:	140 mm
Compression Ratio:	18:1
*Max. Power:	184kW (250 h.p.) at 1900 rev/min
*Max. Torque:	1250 Nm (922 lbf.ft) between 1000 and 1350 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:	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:-

	er tre rene ring.
	'280'
Туре:	DC09-113
*Max. Power:	206kW (280 h.p.) at 1900 rev/min
*Max. Torque:	1400 Nm (1033 lbf.ft) between 1000 and 1350 rev/min
(2) Details as above except f	or the following:-
	'320'
Туре:	DC09-108
*Max. Power:	235kW (320 h.p.) at 1900 rev/min
*Max. Torque:	1600 Nm (1180 lbf.ft) between 1050 and 1300 rev/min
Emission Control:	Scania SCR
(3) Details as above except f	or the following:-
	'360'
Туре:	DC09-112
*Max. Power:	265kW (360 h.p.) at 1900 rev/min
*Max. Torque:	1700 Nm (1254 lbf.ft) between 1100 and 1350 rev/min

Scania SCR

Single dry plate

planetary range unit)

11.1 litres

Air assisted with clutch wear protection

Scania GR875 eight speed synchromesh

(four speed main fitted with two speed

**Emission Control:** \*With fan at max. slip

# CLUTCH

Type:

**Operation:** 

## GEARBOX

Type:

**Oil Capacity:** 

# **GEAR RATIOS**

Low F	Range	High Ra	ange
1st	9.17:1	5th	2.45:1
2nd	6.26:1	6th	1.67:1
3rd	4.65:1	7th	1.24:1
4th	3.75:1	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 - or GRS895 - Traction Control mandatory.

RFAR AXI F

Type: Capacity: Scania AD1300 13000 Ka

Pressed steel housing with magnetic oil drain plug.

## **REAR AXLE GEAR**

#### Type:

Single reduction hypoid.Crown wheel and pinion matched during manufacture. Pneumatically operated differential lock.

Scania R660

### FRONT AXLE

Туре:	Scania AM740 I section rigid beam
Capacity:	7500Kg
Outloner	(4) 0 1 444050 11 00001

Options:- (1) Scania AM950 - capacity 9000kg

### STEERING

Туре:	Recirculating ball. Hydraulically assisted power steering		sted		
Steering w	heel:	Diameter	450mm. Lo	ock to lock 4.9 turns	
Turning cir	cle:	Kerb to ke	ərb		
3.9m A/D	14.2m	4.3m A/D	15.6m	4.5m A/D	16.4m
4.7m A/D	17.1m				

### SUSPENSION

Type Front: Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins. Type Rear: Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins. Anti-roll bar. Double acting telescopic shock absorbers are fitted to both axles.

Options:- (1) Front anti-roll bar

### SPRING SIZE

	Front	Rear			
Length:	1820mm	1780mm			
No. of leaves:	3 x 29mm	3 x 24mm + 1 x 41mm			
Design Capacity:	8500Kg	13000Kg			
<b>Options:- (1)</b> Multi-leaf springs at rear - 5 x 16mm + 2 x 27mm -					

11500Kg design capacity

(2) 4 x 28mm front springs – design capacity 9000kg

WHEELS & TYRES

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 or 385/55R22.5 tyres - front axle only, (3) Aluminium wheels - machined or polished surface finish (4) Front wheel embellishers

# FRAME

F800-50 Type:

F950-50 where front axle capacity ≥8000kg

Flat top constant depth 'U' channel with riveted crossmembers

#### Sidemember Dimensions:

F800 - 270 x 90 x 8mm F950 - 270 x 90 x 9.5mm

Pre-drilled for bodywork mounting brackets

Width over parallel section of frame = 770mm

Bumper: Pressed steel with FUP

Options:- (1) Aerodynamic incorporating FUP - reduces front overhang to 1460mm.

(2) Centre tow-pin - steel bumper only



# **BRAKE SYSTEM**

Туре:	Dual circuit, full air, EC brake system incorporating load sensing and 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 both axles
Parking Brake:	Actuates spring chambers on both axles
Exhaust Brake:	Air actuated operated by brake pedal
Brake Antifreeze Protection	<b>n:</b> Air dryer
Brake Wear Adjusters:	Automatic

Options:- (1) Traction Control anti-slip device - Std. with Opticruise

(2) Scania Hydraulic Retarder

# **BRAKE DIMENSIONS**

Front Axle: Size<br/>Area413 x 203mm<br/>1880cm²Total Area: Service<br/>Parking3760cm²<br/>3760cm²

Rear Axle: Size413 x 203mmArea1880cm²

# ELECTRICAL SYSTEM

Type:24V neg (-ve) earthAlternator:100ABatteries:Twin 140Ah

Rear H.I. lamps, Reversing lights, Battery connection - 200A

#### **Options:-**

(1) 180Ah batteries, (2) 225Ah batteries, (3) 150A alternator, (4) Dual battery system, (5) Bodywork electrical preparation – see separate document.

## FUEL TANK

1 x 200 litre steel RHS

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

	LH Side	RH Side	LH Side	RH Side
Steel - G	150	150 Aluminium - W	200	200
	200	200	300	300
	300	300	350	350
	450 (4300)	450 (4300)	500	500
			600 (4300)	600 (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**

Rear light brackets

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

#### **Options:-**

(1) ADR to EXII/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.



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

#### **Options:-**

CP16 Day Cab

(1) CP19 Sleeper Cab

(2) CP14



For applicability and specification information please visit :-

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

le Distance	39	43	45	47
09-108/112 engines	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37
1905	+33 +10 +43	+34 +9 +43	+34 +9 +43	+35 +8 +43
S895	+2 0 +2	+2 0 +2	+2 0 +2	+2 0 +2
950 front axle	+13 0 +13	+13 0 +13	+13 0 +13	+13 0 +13
anti-roll bar	+34 -1 +33	+34 -1 +33	+34 -1 +33	+34 -1 +33
mm front springs	+29 0 +29	+29 0 +29	+29 0 +29	+29 0 +29
springs 5x16 + 2x27	0 +64 +64	0 +64 +64	0 +64 +64	0 +64 +64
80 tyres/9.00 rims	+18 +36 +54	+18 +36 +54	+18 +36 +54	+18 +36 +54
55 tyres/11.75 rims	+46 N/A +46	+46 N/A +46	+46 N/A +46	+46 N/A +46
65 tyres/11.75 rims	+54 N/A +54	+54 N/A +54	+54 N/A +54	+54 N/A +54
ninium wheels				
x22.5	-24 -48 -72	-24 -48 -72	-24 -48 -72	-24 -48 -72
22.5	-30 -60 -90	-30 -60 -90	-30 -60 -90	-30 -60 -90
5x22.5	-44 N/A -44	-44 N/A -44	-44 N/A -44	-44 N/A -44
frame	+28 +41 +69	+29 +43 +72	+30 +45 +75	+31 +47 +78
der	+74 +15 +89	+75 +14 +89	+74 +15 +89	+75 +14 +89
h batteries	+14 +3 +17	+14 +3 +17	+14 +3 +17	+14 +3 +17
h batteries	+45 +11 +56	+45 +11 +56	+45 +11 +56	+45 +11 +56
atteries	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42
ank full	+81 +63 +144	+87 +57 +144	+90 +54 +144	+92 +52 +144
00I G	+46 +52 +98	+51 +47 +98	+53 +45 +98	+55 +43 +98
4 cab	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55
9 sleeper cab	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79
eflectors – CP14	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46
- CP16/19	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46
eries PTOs	+15 +3 +18	+15 +3 +18	+15 +3 +18	+15 +3 +18
eries PTOs	+42 +5 +47	+42 +5 +47	+42 +5 +47	+42 +5 +47

WEIGHTS FOR OPTIONAL FOUIPMENT IN KILOGRAMS (Front - Bear - Total)

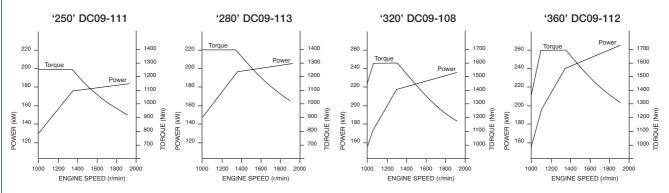
\* Additional to standard tank full of fuel.

# P 250 DB4x2HNZ



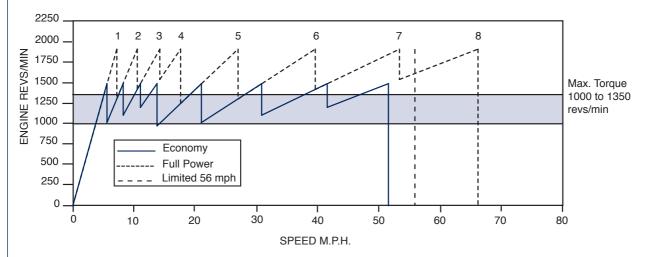
# P 250 DB4x2HNZ Euro 6 19000Kg GVW TWO AXLE TIPPER

### **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			
			DC09-111 18T	DC09-113 18T	DC09-108 18T	DC09-112 18T
R 660	3.07	44 – 56	>35	>35	>35	>35
R 660	3.42 std.	39 – 52	>35	>35	>35	>35
R 660	3.80	35 – 47	>35	>35	>35	>35
R 660	4.22	32 - 42	>35	>35	>35	>35
R 660	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.



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