

# SCANIA

SPECIFICATION

**P-, G- and R-series**

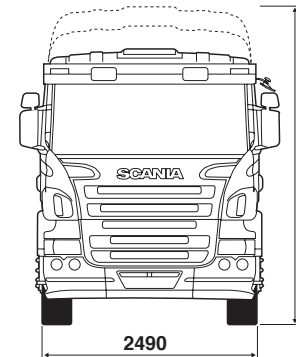
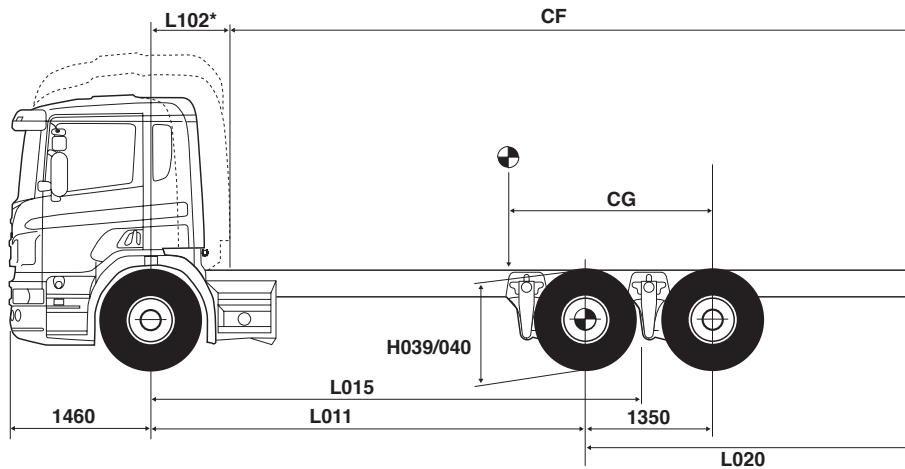
**P 250 DB6x2MNA**

**Euro 6**

26500Kg GVW

THREE AXLE RIGID/DRAWBAR

**P**



2855 Short/Day Cab  
3095 Sleeper Cab  
3295 Highline Cab

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

\* Increases by 15mm with air deflectors

### DIMENSIONS (mm)

L011		4300	4500	4700	4900	5100	5300	5500	5700	5900
L015		4904	5104	5304	5504	5704	5904	6104	6304	6504
L105	Day cab	7317	7668	8018	8372	8721	9067	9410	9690	9858
	(feet)	(24.0)	(25.2)	(26.3)	(27.5)	(28.6)	(29.7)	(30.9)	(31.8)	(32.3)
Sleeper		6821	7175	7525	7876	8225	8575	8925	9290	9594
	(feet)	(22.4)	(23.5)	(24.7)	(25.8)	(27.0)	(28.1)	(29.3)	(30.5)	(31.4)
CF	Day cab	7310	7670	8020	8370	8720	9060	9410	9690	9800
	Sleeper	6825	7175	7525	7875	8225	8575	8925	9285	9535
L020	Day cab	3620	3780	3930	4080	4230	4370	4520	4600	4510
	Sleeper	3400	3550	3700	3850	4000	4150	4300	4460	4510
L020 Max		4200	4400	4600	4800	5000	5120	4920	4720	4520
CG Max	Day cab	1515	1545	1576	1605	1637	1669	1705	1727	1751
	Sleeper	1498	1528	1558	1587	1618	1649	1684	1705	1729
CG Min	Day cab	1381	1405	1431	1454	1481	1507	1536	1552	1570
	Sleeper	1364	1388	1413	1435	1461	1486	1514	1530	1548

H039 unladen	H040 laden	Chassis Height
982 mm	957 mm	Normal (N)
878 mm	854 mm	Low (L) <sup>1</sup>

<sup>1</sup>'L' dimensions assume '60 series' tyre fitment

TWB = Theoretical wheelbase

L105 = 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 bogie centreline. Rear overhang (L020) 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. 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	4423	3085	7508
4500	4428	3104	7532
4700	4429	3122	7551
4900	4439	3142	7581
5100	4438	3167	7605
5300	4437	3197	7634
5500	4437	3285	7722
5700	4466	3286	7752
5900	4485	3275	7760

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

**P 250 DB6x2MNA**

SL5451294  
September 13

## ENGINE (EURO 6)

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

'250'

**Type:** 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:-**

'280'

**Type:** 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 for the following:-**

'320'

**Type:** 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 for the following:-**

'360'

**Type:** 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

**Emission Control:** Scania SCR

\*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 - N/A with GR905.

**(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

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**

**(3) Scania AMA950 - air only - capacity 9000kg**

## 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 17.8m 4.5m A/D 18.5m 4.7m A/D 19.2m

4.9m A/D 19.9m 5.1m A/D 20.7m 5.3m A/D 21.4m

5.5m A/D 22.1m 5.7m A/D 22.8m 5.9m A/D 23.5m

## 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, 8000 or 9000 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 315/70R22.5 tyres (2 off)

**Drive:** 9.00 x 22.5 wheels with 315/70R22.5 tyres (4 off)

**Trailing:** 9.00 x 22.5 wheels with 315/70R22.5 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, (4) Tyre Pressure Monitoring - TPM**

## FRAME

**Type:** F950-50 for 'M' class

F957-50 for 'H' class

Flat top constant depth 'U' channel with riveted crossmembers

### Sidemember Dimensions:

F950 - 270 x 90 x 9.5mm

F957 - 270 x 90 x 9.5mm External member

247 x 78 x 7mm 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. 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 brakes
<b>Secondary Circuit:</b>	First position of park brake lever actuates spring chambers on all axles
<b>Parking Brake:</b>	Actuates spring chambers on all 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>	<b>(1)</b> 2 line EC trailer brake pipes to rear section of chassis, <b>(2)</b> Scania Hydraulic Retarder, <b>(3)</b> ESP – Electronic Stability Programme.

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

## FUEL TANK

1 x 300 litre aluminium RHS  
 AdBlue tank on RHS - capacity 47 litres.

**Options:-** Capacity - 80 litres  
**Options:-** (Minimum axle distance and suspension type in brackets)

	RH Side	LH Side	RH Side	LH Side
<b>Steel - G</b>	<b>150</b>	<b>150</b>	<b>200</b>	<b>200</b>
	200	200	300	300
	300	300	350	350
	450	450	400	400
			500	500
			600	600
			700	700

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

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

Axle Distance	43	45	47	49	51	53	55	57	59
DC09-108/112 engines	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37	-39 +2 -37
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	+3 0 +3	+3 0 +3	+3 0 +3	+3 0 +3	+3 0 +3	+3 0 +3	+3 0 +3	+3 0 +3	+3 0 +3
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	+18 +72 +90	+18 +72 +90	+18 +72 +90	+18 +72 +90	+18 +72 +90	+18 +72 +90	+18 +72 +90	+18 +72 +90	+18 +72 +90
385/55 tyres/ 11.75 rims	+22 N/A +22	+22 N/A +22	+22 N/A +22	+22 N/A +22	+22 N/A +22	+22 N/A +22	+22 N/A +22	+22 N/A +22	+22 N/A +22
385/65 tyres/ 11.75 rims	+32 N/A +32	+32 N/A +32	+32 N/A +32	+32 N/A +32	+32 N/A +32	+32 N/A +32	+32 N/A +32	+32 N/A +32	+32 N/A +32
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
F957-50 frame	+78 +159 +237	+82 +163 +245	+87 +167 +253	+91 +171 +261	+95 +174 +269	+99 +178 +277	+103 +182 +285	+108 +186 +293	+112 +190 +301
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
Dual Batteries	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42	+35 +7 +42
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	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55	-53 -2 -55
CP19 Sleeper Cab	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79	+73 +6 +79
CP19 Highline Cab	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111	+102 +9 +111
Air deflectors- CP14	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46	+44 +2 +46
- CP16/19/19H	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46	+43 +3 +46
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.

## 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
- (3)** Scania Lane Departure Warning (LDW)

## 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 beam 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:-

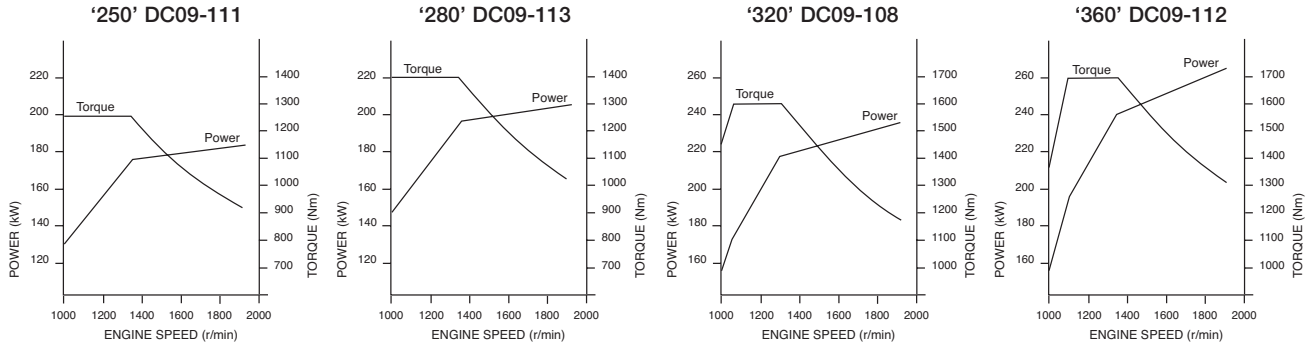
- (1)** CP19 Sleeper Cab
- (2)** CP14
- (3)** CP19 Highline Cab

## P.T.O. OPTIONS

For applicability and specification information please visit :-

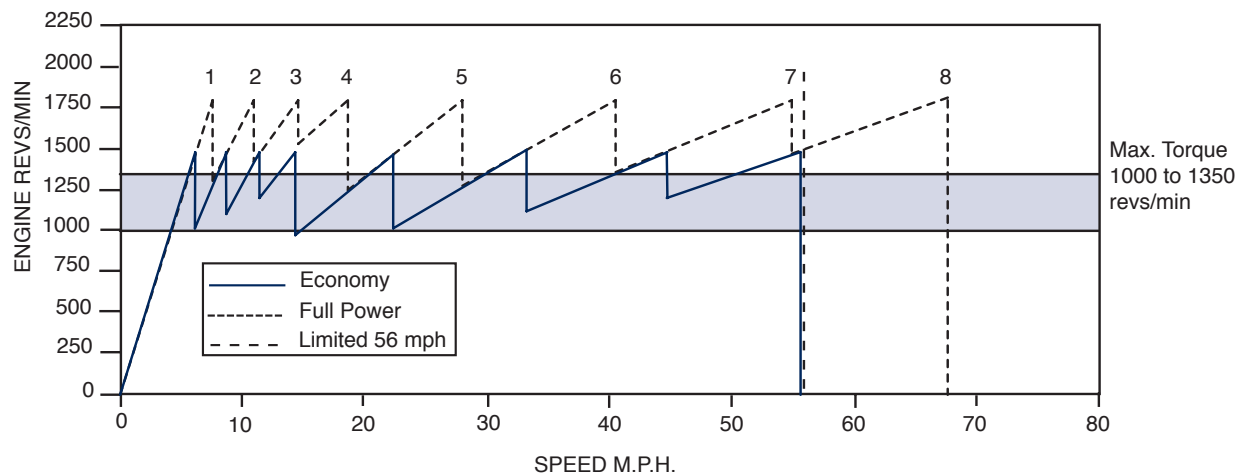
[www.scania.co.uk/trucks/](http://www.scania.co.uk/trucks/) > Bodybuilder > Bodywork Information > Power take-offs and hydraulics.

#### ENGINE PERFORMANCE



Net performance according to ISO 1585, SAE J 1349, ECE 24R-03, 80/1269\*1999/99/EC

#### 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 26T	DC09-113 26T	DC09-108 40T\$	DC09-112 26T 40T\$
R 660 2.92	46 - 56	24.7	27.9	20.0	34.3 24.6
R 660 3.07 std.	44 - 56	26.1	29.4	21.1	>35 26.0
R 660 3.42	39 - 52	29.3	33.0	23.7	>35 29.2
R 660 3.80	35 - 47	32.7	>35	26.5	>35 32.6
R 660 4.22	32 - 42	>35	>35	29.7	>35 >35
R 660 4.88	27 - 36	>35	>35	34.6	>35 >35

\$40T calculations shown with GR905 gearbox. 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.