

SCANIA

SPECIFICATION

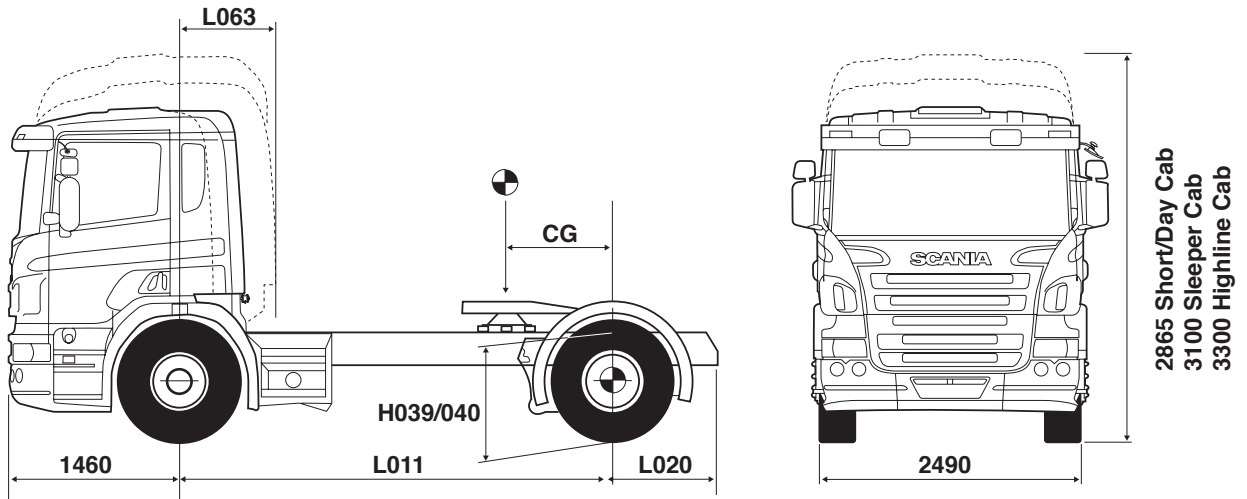
P-, G- and R-series

P 360 LA4x2MNA

60000Kg GTW

TWO AXLE TRACTOR

P



L063 (centreline of front axle to back of cab) Short – 295 Day – 590 Sleeper – 860

DIMENSIONS (mm)

| | | | | |
|---|--------|------|------|---------------------------------------|
| L011 | | 3300 | 3550 | 3700 |
| L020 | | 780 | 780 | 780 |
| Day Cab | CG Max | 685 | 734 | 763 |
| | CG Min | 509 | 545 | 566 |
| Sleeper Cab | CG Max | 670 | 719 | 747 |
| | CG Min | 494 | 529 | 549 |
| Fifth Wheel position to suit 16.5m overall length | | N/A | 510 | 660 forward of drive axle centre line |

| H039 unladen | H040 laden | Chassis Height |
|--------------|------------|---|
| 1000 mm | 970 mm | Normal (N) |
| 878 mm | 854 mm | Low (L) ¹ |
| 813 mm | 787 mm | Extra Low (E) ¹ – N/A with 3.3m A/D. Air suspension front and rear mandatory |

¹Both 'L' and 'E' dimensions assume '60 series' tyre fitment

CG dimension for imposed load calculated for standard model at standard GB plated weights. This dimension can be varied to suit specific trailer swing clearances but may result in a reduction in imposed load. Height dimensions measured to top of frame at rear axle centreline.

PLATED WEIGHTS – AWR

| | Front Axle | Rear Axle | GVW | GTW |
|-----------------|------------|-----------|-------|-------|
| Design Gross | Kg 7500† | 11500 | 19000 | 60000 |
| Legal Max in GB | Kg 7100¶ | 11500 | 18000 | 40000 |

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

¶ Legal front axle capacity limited by tyres.

Plated weights dependent on statutory tyre limitations.

CHASSIS/CAB WEIGHTS

(Tolerance +/- 2.5%)

| Axle distance | Front | Rear | Total (kg) |
|---------------|-------|------|------------|
| 3300 | 4579 | 1866 | 6445 |
| 3550 | 4581 | 1871 | 6452 |
| 3700 | 4584 | 1876 | 6460 |

Chassis cab weight includes 20 litres of fuel, oil and water.

Driver not included. See overleaf for option weights.

P 360 LA4x2MNA

SL5451104
January 10

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 |
| Crawler | 16.41 | 13.28 | | |
| 1st | 11.32 | 9.16 | 7.19 | 5.82 |
| 2nd | 4.63 | 3.75 | 3.02 | 2.44 |
| 3rd | 1.92 | 1.55 | 1.24 | 1.00 |
| Reverse | 14.77 | | | |

Options:-

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

(2) Type: Scania GRS895 as GRS905 but without crawler gears.

(3) Opticruise: Gearchange management system. Only with GRS895/905.

REAR AXLE

| | |
|------------------|----------------|
| Type: | Scania ADA1100 |
| Capacity: | 11500 Kg |

Pressed steel housing with magnetic oil drain plug.

Options:-

(1) Type: Scania ADA1300

Capacity: 13000 kg – F950 frame mandatory, 'H' duty class only

REAR AXLE GEAR

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

FRONT AXLE

Type: Scania AM740 I section rigid beam – AMA740 if air suspension
AMA860 with air suspension on 'Extra Low' chassis

Capacity: 7500Kg

Options:-

(1) Scania AM950 – capacity 9000 kg.

(2) Scania AMA860 – air only – capacity 8000 kg.

STEERING

Type: Recirculating ball. Hydraulically assisted power steering

Steering wheel: Diameter 450mm. Lock to lock 4.9 turns

Turning circle: Kerb to kerb
3.30m A/D 12.4m 3.55m A/D 13.0m 3.70m A/D 13.5m

SUSPENSION

Type Front: Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins. Anti-roll bar.

Type Rear: Quarter elliptic with air bellows (A). Chassis height may be raised or lowered to assist loading. Double acting telescopic shock absorbers are fitted to both axles.

SPRING SIZE

| | Front |
|------------------------|----------|
| Length: | 1820mm |
| No. of leaves | 2 x 32mm |
| Design Capacity | 7500Kg |

Options:-

(1) Air suspension on front axle – design capacity 7500 or 8000 kg. Mandatory with 'E' Extra Low frame height.

(2) 3 x 29mm leaves – design capacity 8500 kg.

(3) 4 x 28mm leaves – design capacity 9000 kg.

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

(5) Tyre Pressure Monitoring (TPM)

FRAME

Type: F800-50 for 'M' class
F950-50 for 'H' class and Extra Low chassis
Flat top constant depth 'U' channel with riveted crossmembers

Sidemember Dimensions:

F800 - 270 x 90 x 8mm

F950 - 270 x 90 x 9.5mm

Width over parallel section of frame = 770mm

Bumper: Aerodynamic incorporating FUP

Options:-

(1) Side skirts (N/A with Extra Low chassis)
– 580mm deep – N/A with XW fuel tanks
– 730mm deep

(2) Steel bumper – increases front overhang to 1510mm

(3) Centre tow pin – steel bumper only

BRAKE SYSTEM

| | |
|-------------------------------------|---|
| Type: | 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 |
| Service Circuit: | Actuates all tractor and trailer brakes |
| Secondary Circuit: | First position of park brake lever actuates tractor spring brakes plus trailer brakes |
| Parking Brake: | Actuates spring chambers on both axles |
| Exhaust Brake: | Air actuated operated by brake pedal |
| Brake Antifreeze Protection: | Air dryer |
| Brake Wear Adjusters: | Automatic |
| Options:- | |
| (1) | Scania Hydraulic Retarder |
| (2) | ESP – Electronic Stability Programme |

BRAKE DIMENSIONS

| | |
|---------------------------------|-------------------------------------|
| Pad lining area: | 2 x 190cm ² on all axles |
| Swept area of each disc: | 2 x 940cm ² |

ELECTRICAL SYSTEM

| | | | |
|-------------------|---------------------|--------------------|------|
| Type: | 24V neg (-ve) earth | Alternator: | 100A |
| Batteries: | Twin 180 Ah | | |

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

Options:-
(1) 140Ah batteries, **(2)** 225Ah batteries, **(3)** Rear mounted 225Ah batteries – only with LH fuel tank ≤ 860 litre, **(4)** Bodywork electrical preparation – see separate document.

FUEL TANK

1 x 300 litre aluminium RHS

Options:- (Minimum axle distance in brackets)

| Steel – G | | Aluminium – W | | Aluminium – XW | |
|-----------|---------|---------------|-----------|----------------|-------------|
| LH side | RH side | LH side | RH side | LH side | RH side |
| 150 | 150 | 200 | 200 | 1 640(3550) | 2 500(3700) |
| 200 | 200 | 300 | 300 | 1 700(3550) | 2 550(3550) |
| 300(3550) | 300 | 350 | 350 | 1 750(3700) | 1 700(3550) |
| | | 400 | 400 | 2 860(3550) | 1 750(3700) |
| | | 500(3550) | 500 | 2 950(3550) | |
| | | 600(3550) | 600(3550) | 2 1000(3700) | |
| | | 700(3700) | 700(3700) | | |

Mandatory battery position – 1=LHS, 2=Rear – suspension dependencies may apply with XW tanks. Tank sizes can be supplied in LH + RH combinations of the above (except XW where RH is only available together with LH) but steel and aluminium cannot be mixed. Max. volume for EU cross border traffic is 1500 litres. Aluminium tanks are not available with 'E' frame height. Sides viewed from rear.

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

| Axle Distance | 33 | 35 | 37 |
|-------------------------|----------------|----------------|----------------|
| GR905 | -6 -3 -9 | -6 -3 -9 | -6 -3 -9 |
| ADA1300 rear axle | 0 +21 +21 | 0 +21 +21 | 0 +21 +21 |
| AM950 front axle | +13 0 +13 | +13 0 +13 | +13 0 +13 |
| Air suspension front | +40 +15 +55 | +40 +15 +55 | +40 +15 +55 |
| 3 x 29mm f/springs | +44 0 +44 | +44 0 +44 | +44 0 +44 |
| 4 x 28mm f/springs | +70 0 +70 | +70 0 +70 | +70 0 +70 |
| 315/80 tyres/9.00 rims | +18 +36 +54 | +18 +36 +54 | +18 +36 +54 |
| 385/55 tyres/11.75 rims | +46 N/A +46 | +46 N/A +46 | +46 N/A +46 |
| 385/65 tyres/11.75 rims | +54 N/A +54 | +54 N/A +54 | +54 N/A +54 |
| Aluminium Wheels | | | |
| 8.25x22.5 | -24 -48 -72 | -24 -48 -72 | -24 -48 -72 |
| 9.00x22.5 | -30 -60 -90 | -30 -60 -90 | -30 -60 -90 |
| 11.75x22.5 | -44 N/A -44 | -44 N/A -44 | -44 N/A -44 |
| F950-50 frame | +25 +25 +50 | +25 +25 +50 | +25 +25 +50 |
| FUP steel bumper | +67 -13 +54 | +67 -13 +54 | +67 -13 +54 |
| Centre two pin | +29 -5 +24 | +29 -5 +24 | +29 -5 +24 |
| Side skirts | +18 +17 +35 | +18 +18 +36 | +19 +18 +37 |
| Retarder | +97 +24 +121 | +98 +23 +121 | +99 +22 +121 |
| 140Ah Batteries | -14 -3 -17 | -14 -3 -17 | -14 -3 -17 |
| 220Ah Batteries | +31 +8 +39 | +31 +8 +39 | +31 +8 +39 |
| Std. Tank Full | +109 +115 +224 | +117 +107 +224 | +121 +103 +224 |
| *1 x 500l W | +62 +122 +184 | +71 +113 +184 | +75 +109 +184 |
| *1 x 350 + 1 x 500l W | +204 +304 +508 | +230 +278 +508 | +257 +251 +508 |
| Sliding 5th wheel | +7 +53 +60 | +9 +51 +60 | +11 +49 +60 |
| Vertical exhaust outlet | +45 +12 +57 | +45 +12 +57 | +45 +12 +57 |
| CP14 cab | -35 +2 -33 | -35 +2 -33 | -35 +2 -33 |
| CP19 sleeper cab | +65 +15 +80 | +65 +15 +80 | +65 +15 +80 |
| CP19 Highline cab | +89 +21 +110 | +89 +21 +110 | +89 +21 +110 |
| Air deflectors – CP14 | +40 +2 +42 | +40 +2 +42 | +40 +2 +42 |
| CP16/19/19H | +39 +3 +42 | +39 +3 +42 | +39 +3 +42 |
| EG Series PTOs | +15 +3 +18 | +15 +3 +18 | +15 +3 +18 |
| EK Series PTOs | +42 +5 +47 | +42 +5 +47 | +42 +5 +47 |

* Additional to standard tank full of fuel.

GENERAL EQUIPMENT

Fixed 5th wheel – 250mm above frame
 Lead-on ramps
 Double Manwalk with step and coupling lamp
 Rear Wings
 Front tow pin

Options:-

(1) 5th wheel position in front of drive axle centre line – 210 to 760mm in 50mm increments. **(2)** Sliding 5th wheel - 265mm above frame – N/A with XW fuel tanks. **(3)** Vertical exhaust outlet – N/A with ADR to EXIII/EXIII or FL. **(4)** ADR to EXIII/EXIII, FL, OX or AT. **(5)** Adaptive Cruise Control (ACC) – retarder mandatory.

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 | | |
| ¹ EG640P | ¹ EG640F | 1.65 / 2.04H | |
| ¹ EG641P | ¹ EG641F | | 1.33 / 1.67H |
| EG650P | EG660F | 1.00 / 1.24H | |
| ¹ EG651P | ¹ EG661F | 1.28 / 1.58H | |
| EG652P | EG662F | | 0.82 / 1.03H |
| ¹ EG653P | ¹ EG663F | | 1.03 / 1.29H |
| Side Mount | | | |
| EG500P | EG500F | 1.33 / 1.65H | |
| EG501P | EG501F | | 1.78 / 2.22H |
| ² EG502P | ² EG502F | 1.33 / 1.65H | |
| ² EG503P | ² EG503F | | 1.78 / 2.22H |
| Sandwich | | | |
| EK730 | EK740 | 1.00 | 1.00 |

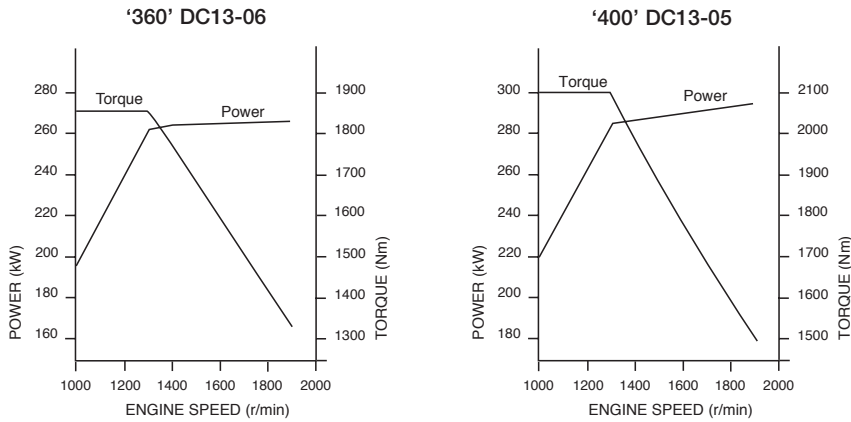
¹ = Not in combination with side mounted P.T.O.

² = Not in combination with rear mounted P.T.O.

H= High on 'S' splitter gearboxes only.

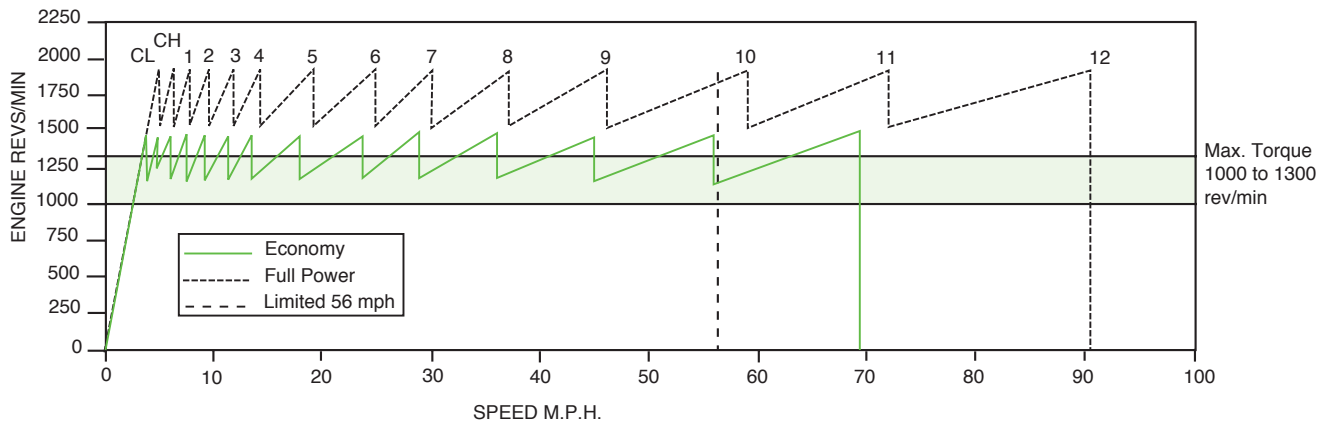
Flange output rear mount N/A on 6x2/4 or 6x2/2 chassis

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 | |
| | | 40T | 60T | 40T | 60T |
| R 780 2.71* | 43 - 56 | >35 | 28.4 | >35 | 32.8 |
| R 780 2.92* | 40 - 53 | >35 | 30.9 | >35 | >35 |
| R 780 3.08 Std | 43 - 56 | >35 | 28.5 | >35 | 32.9 |
| R 780 3.27 | 41 - 54 | >35 | 30.4 | >35 | >35 |
| R 780 3.40 | 39 - 51 | >35 | 32.0 | >35 | >35 |
| R 780 3.80 | 35 - 46 | >35 | >35 | >35 | >35 |

*2.59, 2.71 and 2.92 ratio shown with low profile tyres - calculations based on 295/60R22.5 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.

