

SCANIA

SPECIFICATION

P-, G- and R-series

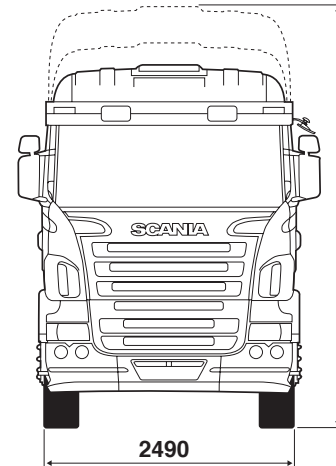
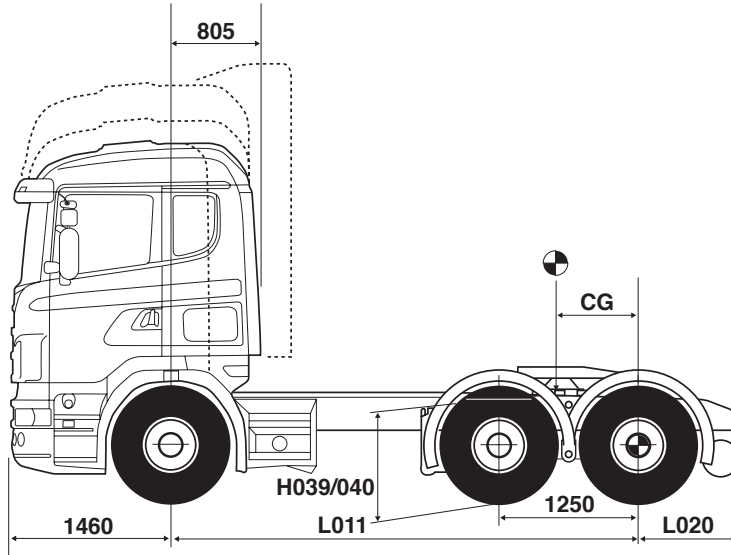
R/G 410 LA6x2/4MNA

Euro 6

45000Kg GTW

TWIN STEER TRACTOR

R



| | R | G |
|--------------|------|------|
| Day Cab | 3160 | 3090 |
| Sleeper Cab | 3400 | 3330 |
| Highline Cab | 3600 | 3530 |
| Topline Cab | 3920 | N/A |

DIMENSIONS (mm)

| | |
|----------------|------|
| L011 | 4000 |
| L015 | 3532 |
| L020 | 780 |
| Sleeper Cab CG | 892 |

Fifth Wheel position to suit 16.5m overall length

960 forward of drive axle centre line
Max. imposed load = 12572 kg – Sleeper Cab

H039 unladen = 1000mm H040 laden = 970mm L015 = theoretical wheelbase

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 bogie centreline

PLATED WEIGHTS – AWR

| | Front Axle | Second Steer | Rear Axle | GVW | GTW |
|-----------------|------------|--------------|-----------|-------|-------|
| Design Gross | Kg 7500† | 6100 | 10200 | 23800 | 45000 |
| Legal Max in GB | Kg 7100¶ | 6000 | 10000 | 23100 | 44000 |

† Front axle capacity up to a maximum of 8000 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 | Bogie | Total (kg) |
|---------------|-------|-------|------------|
| 4000 | 5133 | 2871 | 8004 |

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

Driver not included. See overleaf for option weights.

R/G 410 LA6x2/4MNA

SL5451284
August 13

ENGINE (EURO 6)

Scania '13 litre' vertical six cylinder in-line turbocharged intercooled direct injection diesel with Scania XPI.

| | |
|--|--|
| | '410' |
| Type: | DC 13-115 |
| Swept Volume: | 12.74 litres |
| Bore: | 130 mm |
| Stroke: | 160 mm |
| Compression Ratio: | 20:1 |
| *Max. Power: | 302kW (410 h.p.) at 1900 rev/min |
| *Max. Torque: | 2150 Nm (1586 lbf.ft) between 1000 & 1300 rev/min |
| Engine Management System: | EMS incorporating Cruise Control and speed limiter |
| Emission Control: | Scania SCR |
| Cooling: | Water cooled with rubber mounted 2 row radiator and electronically regulated fan |
| Coolant Capacity: | 55 litres |
| Oil Capacity: | 40 litres |
| Air Cleaner: | Dry replaceable paper element |
| Engine Driven P.T.O. provision: | ED120 |

Options:-

(1) Details as above except for the following:-

| | |
|----------------------|---|
| | '450' |
| Type: | DC13-124 |
| *Max. Power: | 331kW (450 h.p.) at 1900 rev/min |
| *Max. Torque: | 2350 Nm (1733 lbf.ft) between 1000 & 1300 rev/min |

Emission Control: Scania EGR/SCR

(2) Details as above except for the following:-

| | |
|----------------------|---|
| | '490' |
| Type: | DC13-125 |
| *Max. Power: | 360kW (490 h.p.) at 1900 rev/min |
| *Max. Torque: | 2500 Nm (1844 lbf.ft) between 1000 & 1300 rev/min |

Emission Control: Scania EGR/SCR

*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: | 16.5 litres (17.5 litres with oil cooler) |

Options:-

(1) Oil cooler – standard with DC13-124 and DC13-125 engines

GEAR RATIOS

| | Low Range Split | | High Range Split | |
|----------------|-----------------|---------|------------------|--------|
| | L | H | L | H |
| Crawler | 16.41:1 | 13.28:1 | | |
| | 11.32:1 | 9.16:1 | 7.19:1 | 5.82:1 |
| | 4.63:1 | 3.75:1 | 3.02:1 | 2.44:1 |
| | 1.92:1 | 1.55:1 | 1.24:1 | 1.00:1 |

Reverse 14.77:1

Options:-

(1) Type: Scania GRS0905 fourteen speed overdrive range change/splitter including two crawler gears

(2) Opticruise: Gearchange management system.

REAR AXLES

| | |
|------------------|---|
| Type: | Second steer axle - Scania ARA820 Drive axle - Scania ADA 1100 |
| Capacity: | Combined 19000 Kg |

Drive axle has 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 AXLE

| | |
|---|--|
| Type: | Scania AM740 I section rigid beam – AMA740 if air suspension |
| 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 4.000m A/D 14.58m |

SUSPENSION

| | |
|--------------------|---|
| Type Front: | Semi-elliptic parabolic springs with swinging shackles and threaded shackle pins. Anti-roll bar. |
| Type Rear: | Second steer axle - quarter elliptic with air bellows (A) (2 bag) which may be evacuated from the cab to increase drive axle traction. Pneumatic mid-axle hoist. Drive axle - quarter elliptic with air bellows. Chassis height may be raised or lowered to assist loading. Double acting telescopic shock absorbers are fitted to all 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.

(2) 3 x 29mm leaves – design capacity 8500 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) Wheel embellishers - steering axles, (5) Tyre Pressure Monitoring (TPM).

FRAME

Type: F950-50
Flat top constant depth 'U' channel with riveted crossmembers

Side member Dimensions:

F950 - 270 x 90 x 9.5mm

Width over parallel section of frame = 770mm

Bumper: Aerodynamic incorporating FUP

Options:- (1) Side skirts

– 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: | Actuates split service system plus trailer brakes |
| Parking Brake: | Actuates spring chambers on front and drive 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, Side marker lamps, Battery connection – 200A.

Options:-

(1) 140Ah batteries, **(2)** 225Ah batteries – left or rear mounted, **(3)** 150A Alternator, **(4)** Dual battery system, **(5)** Bodywork electrical preparation – see separate document.

FUEL TANKS

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

Options:- Capacity - 80 litres

| Steel - G | | Aluminium - W | | Aluminium - XW | |
|-----------|---------|---------------|---------|----------------|---------|
| LH side | RH side | LH side | RH side | LH side | RH side |
| – | – | – | – | 1 320 | 175 |
| 200 | – | 300 | 175 | 2 540 | |

Mandatory battery position – ₁ = LHS, ₂ = Rear. 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

Fixed 5th wheel - 285mm above frame
Lead-on ramps
Double Manwalk with step and coupling lamp
Rear Wings
Front tow pin

Options:-

- (1)** Fifth wheel position in front of drive axle centre line - 635 to 1085mm in 50mm increments
- (2)** Sliding fifth wheel - 303mm above frame.
- (3)** Vertical exhaust outlet – N/A with ADR to EXIII/EXIII or FL.
- (4)** ADR to EXIII/EXIII, FL, OX or AT
- (5)** Scania Lane Departure Warning (LDW)
- (6)** Adaptive Cruise Control (ACC) – retarder mandatory.

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

| Axle Distance | 4000 |
|--|----------------|
| DC13-124/125 engines | +57 -4 +53 |
| AM950 front axle | +13 0 +13 |
| Air suspension front | +40 +15 +55 |
| 3 x 29mm front springs | +44 0 +44 |
| 9.00x22.5 Wheels + 315/80 Tyres | +18 +54 +72 |
| 11.75x22.5 Wheels + 385/65 Tyres | +54 N/A +54 |
| 11.75x22.5 Wheels + 385/55 Tyres | +46 N/A +46 |
| Aluminium Wheels 8.25x22.5 | -24 -72 -96 |
| 9.00x22.5 | -30 -90 -120 |
| 11.75x22.5 | -44 N/A -44 |
| Side skirts | +20 +19 +39 |
| FUP steel bumper | +67 -13 +54 |
| Centre tow pin | +29 -5 +24 |
| Retarder | +101 +20 +121 |
| 140Ah Batteries | -13 -4 -17 |
| 225Ah Batteries | +31 +8 +39 |
| Dual Batteries | +22 +2 +24 |
| Std. Tank Full | +116 +118 +234 |
| *1 x 300l + 1 x 175l W | +92 +80 +172 |
| Sliding 5th wheel | +8 +52 +60 |
| Vertical exhaust outlet | +37 +8 +45 |
| CR16 cab with defl. | -173 +8 -165 |
| CR19 Highline cab with defl. | +40 +2 +42 |
| CR19 Topline cab with defl. | +128 +7 +135 |
| CG14 short cab with defl. | -201 +5 -196 |
| CG16 day cab with defl. | -184 +9 -175 |
| CG19 sleeper cab with defl. | -69 -4 -73 |
| CG19 Highline cab with defl. | -34 -2 -36 |
| Delete air deflectors – EG Series PTOs | -65 -15 -80 |
| EK Series PTOs | +15 +3 +18 |
| | +42 +5 +47 |

* Additional to standard tank full of fuel.

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

CR19 Sleeper Cab

Please see separate specification – ‘Scania Cabs’ for equipment levels.

Options:-

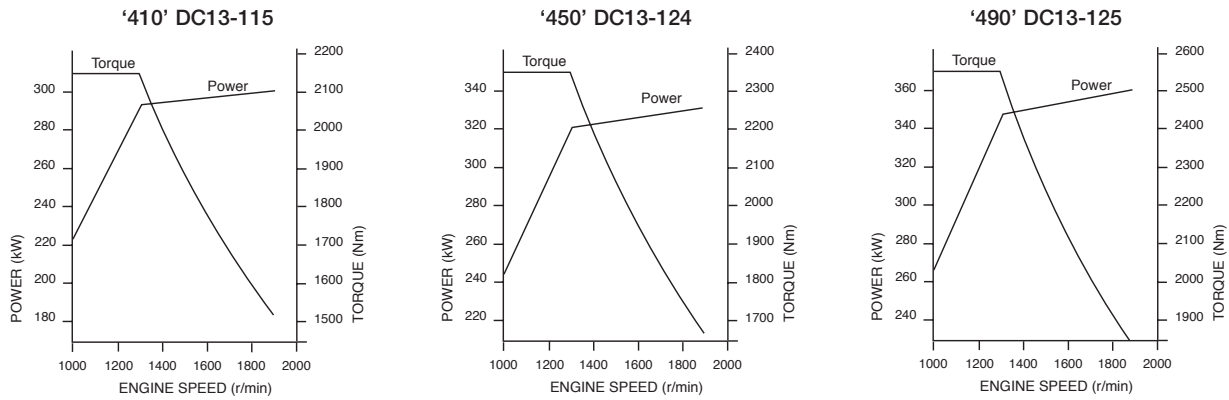
(1) CR16 Day Cab, **(2)** CR19 Highline, **(3)** CR19 Topline, **(4)** CG14 Short Cab, **(5)** CG16 Day Cab, **(6)** CG19 Sleeper, **(7)** CG19 Highline.

P.T.O. OPTIONS

For applicability and specification information please visit :-

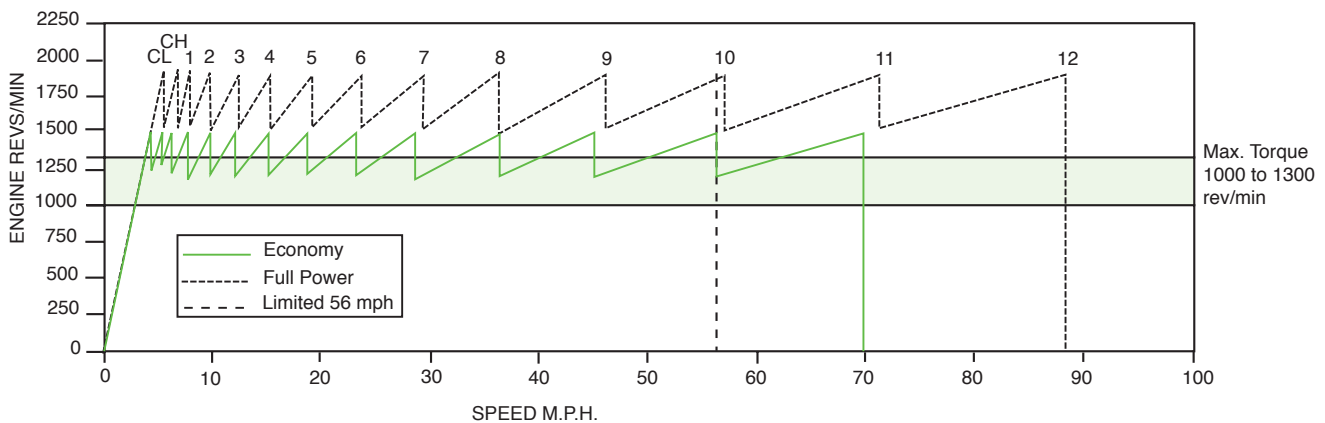
www.scania.co.uk/trucks/ > Bodybuilder > Bodywork Information > Power take-offs and hydraulics.

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 | | |
|---------------------|----------------------------------|--|----------|----------|
| | | DC13-115 | DC13-124 | DC13-125 |
| R 780 | 2.59 Std | 44T | 44T | 44T |
| R 780 | 2.71 | >35 | >35 | >35 |
| R 780 | 2.92 | >35 | >35 | >35 |
| R 780 | 3.08 | >35 | >35 | >35 |
| R 780 | 3.27 | >35 | >35 | >35 |
| R 780 | 3.42 | >35 | >35 | >35 |
| R 780 | 3.80 | >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.

