SCANIA

SPECIFICATION

P-, G- and R-series

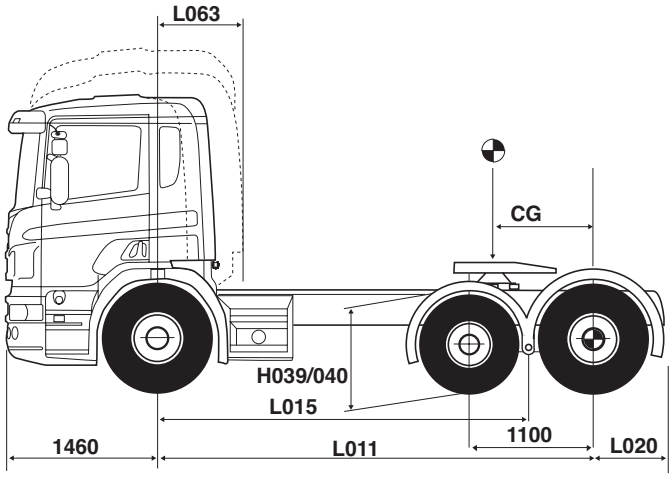
P 360 LA6x2/2MNA

60000Kg GTW

MID - LIFT TRACTOR

MLA2

P



DIMENSIONS (mm)

L011	**3900**
L015	**3524**
L020	**780**
Day Cab CG	**859**
Sleeper Cab CG	**847**

Fifth Wheel position to suit 16.5m overall length.

860 forward of drive axle centre line
Max imposed load = 15578kg Day Cab
= 15498kg 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 axle centreline.

PLATED WEIGHTS – AWR

	Front Axle	Mid Axle	Rear Axle	GVW	GTW
Design Gross Kg	7500	5450	10500	23450	60000
Legal Max in GB Kg	7100*	5450	10500	23050	44000

* 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)
3900	4772	2391	7163

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

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 AXLES

Type: Midlift axle – Hendrickson MLA2 19.5" pusher

Drive axle - Scania ADA1100

Capacity: Combined 16950 Kg

REAR AXLE GEAR

Type: Scania R780

Single reduction hypoid. Crown wheel and pinion matched during manufacture. Pneumatically operated differential lock.
Drive axle has pressed steel housing with magnetic oil drain plug.

FRONT AXLE

Type: Scania AM740 I section rigid beam.

Capacity: 7500Kg

STEERING

Type: Recirculating ball. Hydraulically assisted power steering.

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

Turning circle: Kerb to kerb 3.90m A/D 12.96m

SUSPENSION

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

Type Rear: Pusher axle -air bellows 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

WHEELS & TYRES

Axles 1 and 3 : 8.25 x 22.5 ten stud spigot mounted disc wheels fitted with 295/80R22.5 radial tubeless tyres.

Axle 2 : 7.50 x 19.5 eight stud spigot mounted disc wheels fitted with 265/70R19.5 radial tubeless tyres.

Options:-

(1) *Aluminium wheels - Machined or Polished surface finish.*

(2) *Wheel embellishers – Steering axle.*

(3) *Axle 1 - 9.00 x 22.5 wheels with 315/80R22.5 tyres.*

(4) *Axle 2 – 7.50 x 19.5 wheels with 285/70R19.5 tyres.*

FRAME

Type: F800

Flat top constant depth 'U' channel with riveted crossmembers.

Sidemember Dimensions:
F800 - 270 x 90 x 8.0mm

Width over parallel section of frame = 770mm

Bumper: Aerodynamic plastic bumper.

Options:-

(1) *Steel bumper – increases front overhang to 1510mm.*

(2) *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 190cm² on axles 1 and 3
	2 x 150cm² on axle 2
Swept area of each disc:	2 x 940cm² on axles 1 and 3
	2 x 745cm² on axle 2

ELECTRICAL SYSTEM

Type: 24V neg (-ve) earth **Alternator:** 100A

Batteries: Twin 140Ah

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

Options:-

(1) *180Ah batteries,* ***(2)*** *225Ah batteries,* ***(3)*** *Bodywork electrical preparation – see separate document*

FUEL TANK

1 x 300 Litre LHS

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

	RH Side	***LH Side***		***RH Side***	***LH Side***
Steel - G	*200*	*150*	***Aluminium - W***	*–*	*200*
		200		*300*	*300*

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 fifth wheel - 290mm above frame

Lead-on ramps

Double Manwalk with step and coupling lamp

Rear Wings

Front tow pin

Brake blow-off hose

Options:-

(1) *Fifth wheel position in front of drive axle centre line – 660 to 1210mm in 50mm increments.*

(2) *Sliding fifth wheel - 285mm above frame.*

(3) *Vertical exhaust outlet – N/A with ADR to EXII/EXIII or FL.*

(4) *ADR to EXII/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*** *Short Cab,* ***(3)*** ***CP19H*** *Highline Cab.*

P.T.O. OPTIONS Check gearbox availability

Rear Mount Pump	Flange	GR875 / GRS895 / GR/S905	GRSO905
[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

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

Axle Distance	**3900**
DC13-05 engine	+7 +4 +11
GR905 Gearbox	–6 –3 –9
Aluminium Wheels	–24 –66 –90
315/80 tyres + 9.00x22.5 rims – Axle 1	+18 0 +18
285/70 tyres + 7.50x19.5 rims – Axle 2	0 +10 +10
Retarder	+101 +20 +121
180Ah Batteries	+13 +4 +17
225Ah Batteries	+44 +12 +56
Std. Tank Full	+116 +118 +234
*2x300l W	+143 +133 +276
Sliding 5th wheel	+8 +52 +60
Vertical exhaust outlet	+37 +8 +45
CP14 Cab	–35 +2 –33
CP19 Sleeper Cab	+65 +15 +80
CP19H Highline Cab	+89 +21 +110
Air Deflectors CP14	+40 +2 +42
CP16/19/19H	+39 +3 +42
EG Series PTOs	+15 +3 +18
EK Series PTOs	+42 +5 +47

* Additional to standard tank full of fuel

SCANIA

SPECIFICATION

P 360 LA6x2/2MNA

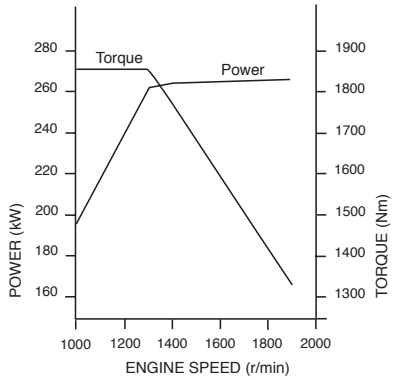
60000Kg GTW

MID - LIFT TRACTOR

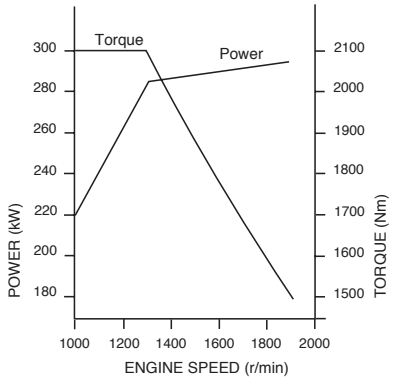
MLA2

ENGINE PERFORMANCE

'360' DC13-06

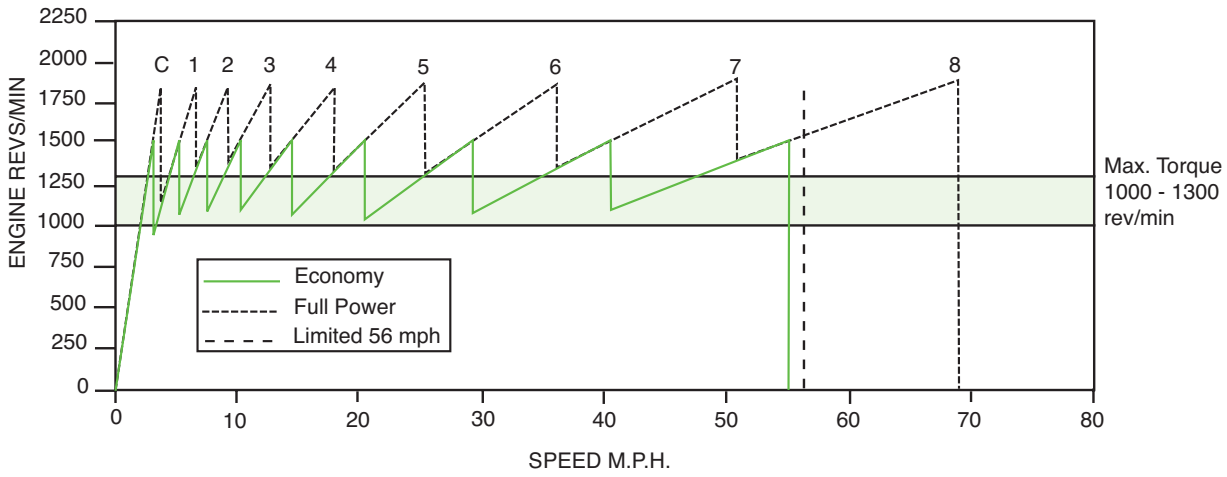


'400' DC13-05



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	2.59*	45 – 56	>35	27.8	>35	32.0
R 780	2.71*	43 – 56	>35	29.2	>35	33.7
R 780	2.92*	40 – 53	>35	31.8	>35	>35
R 780	3.08 Std	43 – 56	>35	29.3	>35	33.7
R 780	3.27	41 – 54	>35	31.3	>35	>35
R 780	3.42	39 – 51	>35	32.9	>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.

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