



PONSSE

TECHNICAL DATA

- Elephant King -

Technical data, Elephant King

DIMENSIONS	
Length	10 150 – 11 060 mm (400– 436 in) + glide bunk 700 mm (27 in)
Width	3070 – 3210 mm (123 – 125 in)
Transportation height (Max)	3990 mm (157 in)
Ground clearance	800 mm (32 in)
Weight	8 wheel: 22 900 kg (50.500 lbs) Typical 8w: 23 700 kg (52.250 lbs)
LOAD CAPACITY	
Load capacity	20 000 kg (44 100 lbs)
Load space cross section	5,8 -6,7 m ² (62.5 – 72.2 sq ft)
Load space length	4 540 – 5 450 mm (179 -214 in) + glide bunk 700 mm (28 in)
Screen	Hydraulically movable and liftable/lowerable screen as standard
CRANE	
Model	PONSSE K121 / K100+
Lifting moment	K121: 195 kNm / K100+: 160 kNm
Reach, S/M model	K121: 8 m / 10 m, K100+: 7,8 m / 9,5 m (K121: 26.2ft / 31.2 ft, K100+: 25.6 ft / 31.2 ft)

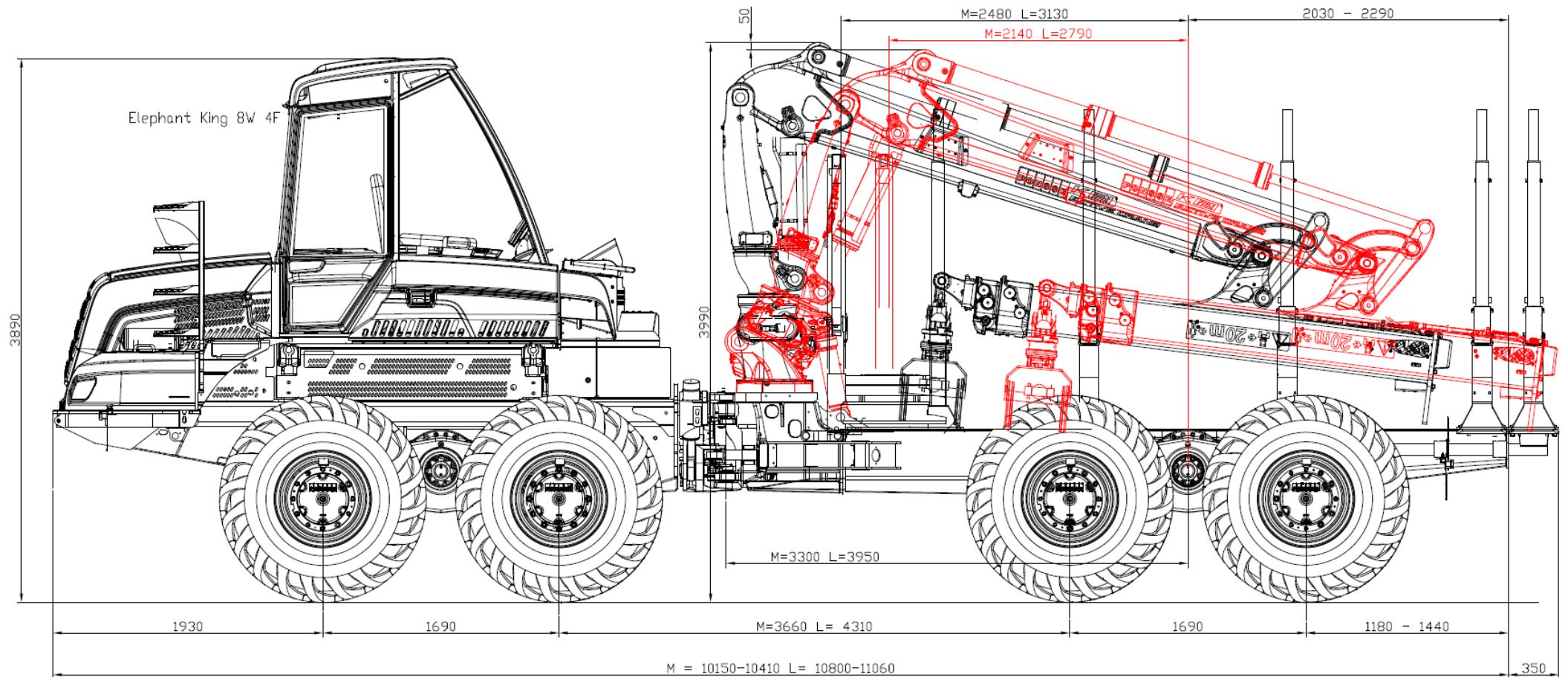
ENGINE	
Model	MB OM906 LA (3A) MB OM936 LA (EU Stage 4 & 5)
Power	3A: 205 kW (275 hp) EU Stage 4 & 5: 210 kW (286 hp)
Torque	3A: 1100 Nm (1200-1600 rpm) Eu Stage 4: 1150 Nm (1200-1600 rpm) Eu Stage 5: 1200 Nm (1200-1600 rpm)
Pulling power	240 kN (54.000 lbf)
Fuel tank capacity	260 l (67 gal, US)
TIRES	
Front and rear:	750/55 – 26,5” 750/50 – 26,5”
HYDRAULIC SYSTEM	
Control system	Ponsse OptiControl
Working pump	190 cm ³ (11.6 cu in)
Oil tank capacity	170l (45 gal)

Machine width - different offset/wheels

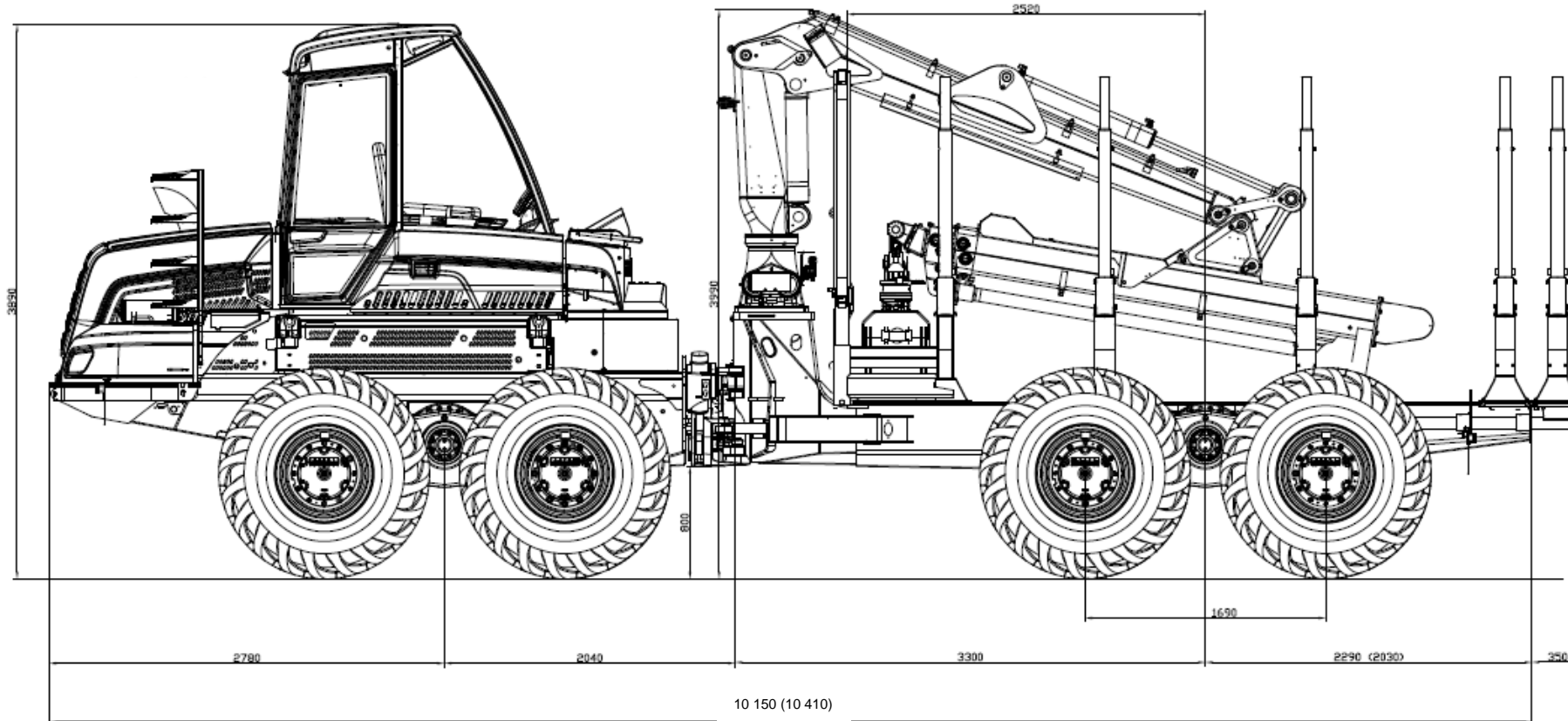
Bogie PO 116			
Wheel rim offset	750/55-26,5 Offset 0	750/55-26,5 Offset +40	750/55-26,5 Offset +70
Machine width (order sheets)	3210 mm	3130 mm	3070 mm
Max. track width	1050 mm	970 mm	910 mm

- With offset +40 there is possibility to turn rim and get offset -55. Then machine width is 3358mm. Maximum symmetrical track width is 1200mm.

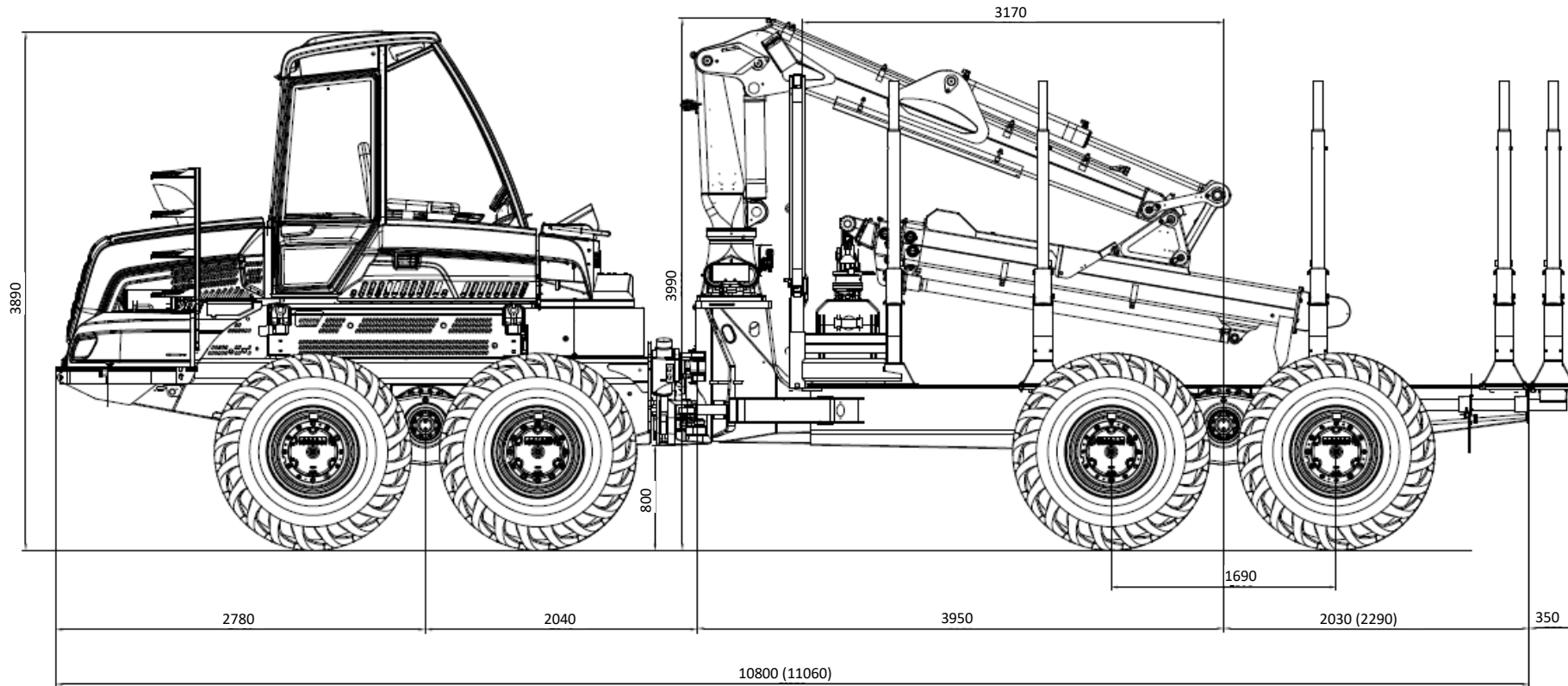
Elephant King K121



Elephant King K100+ 3300 back frame, short/long extension

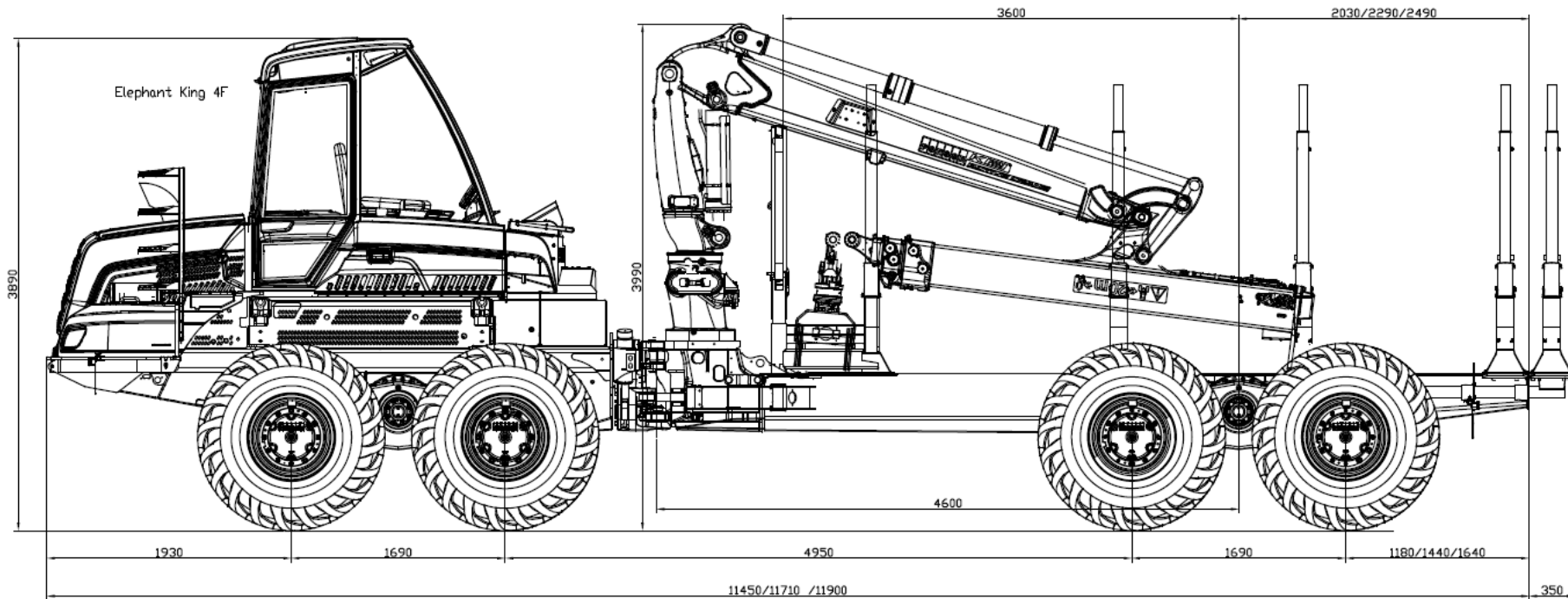


Elephant King K100+ 3900 back frame, short/long extension

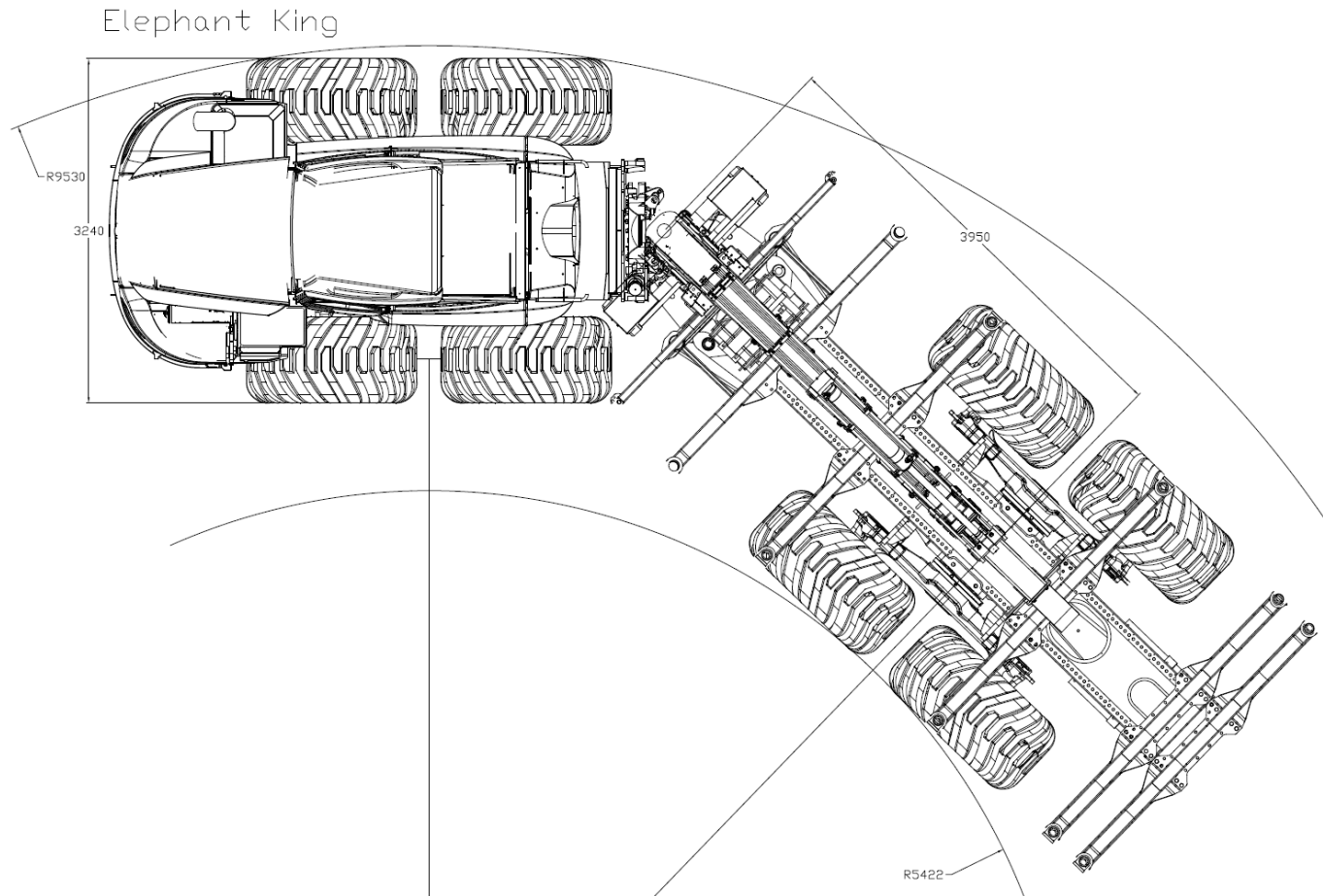


Elephant King K121

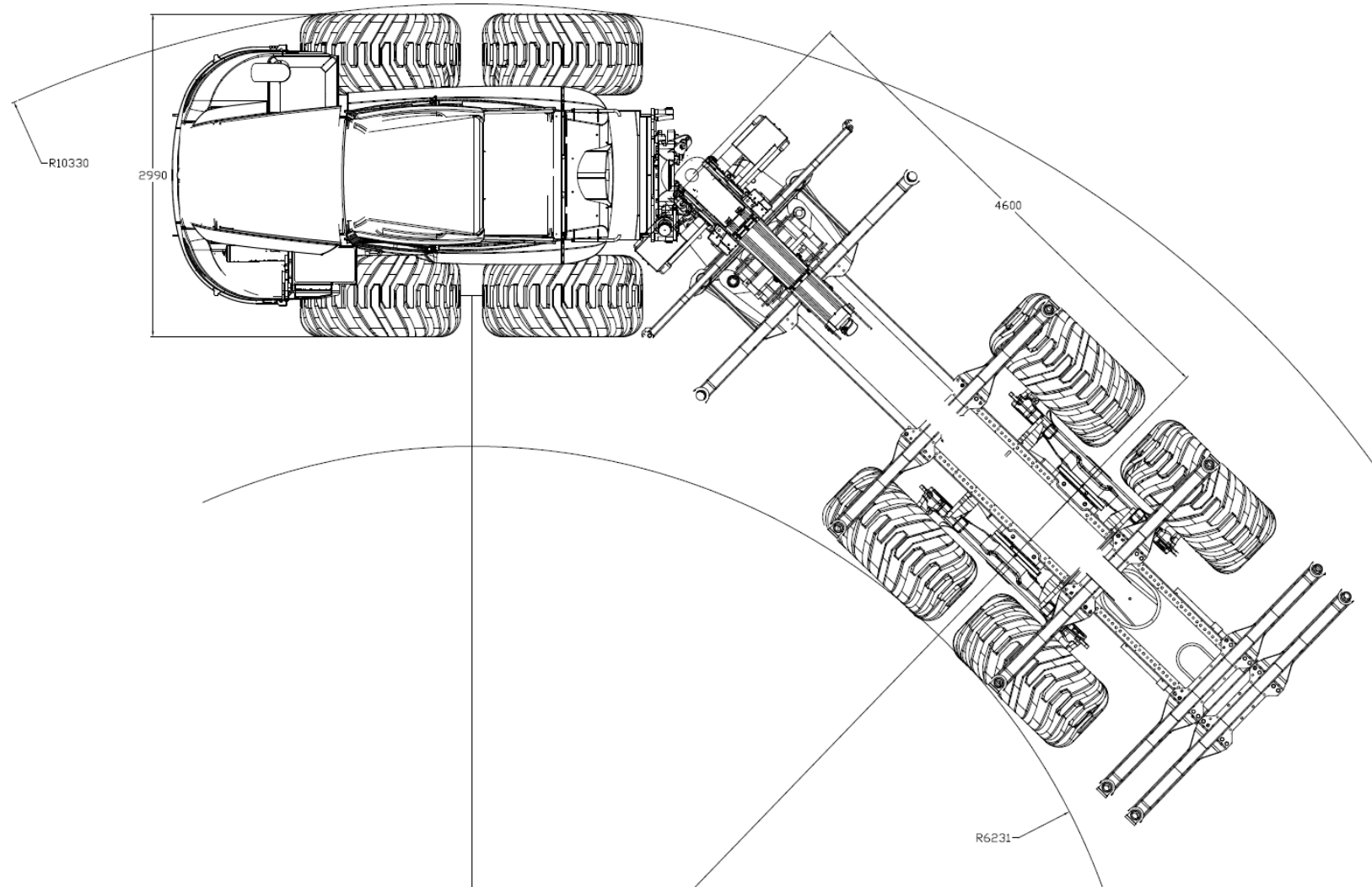
4600 back frame, short/long extension



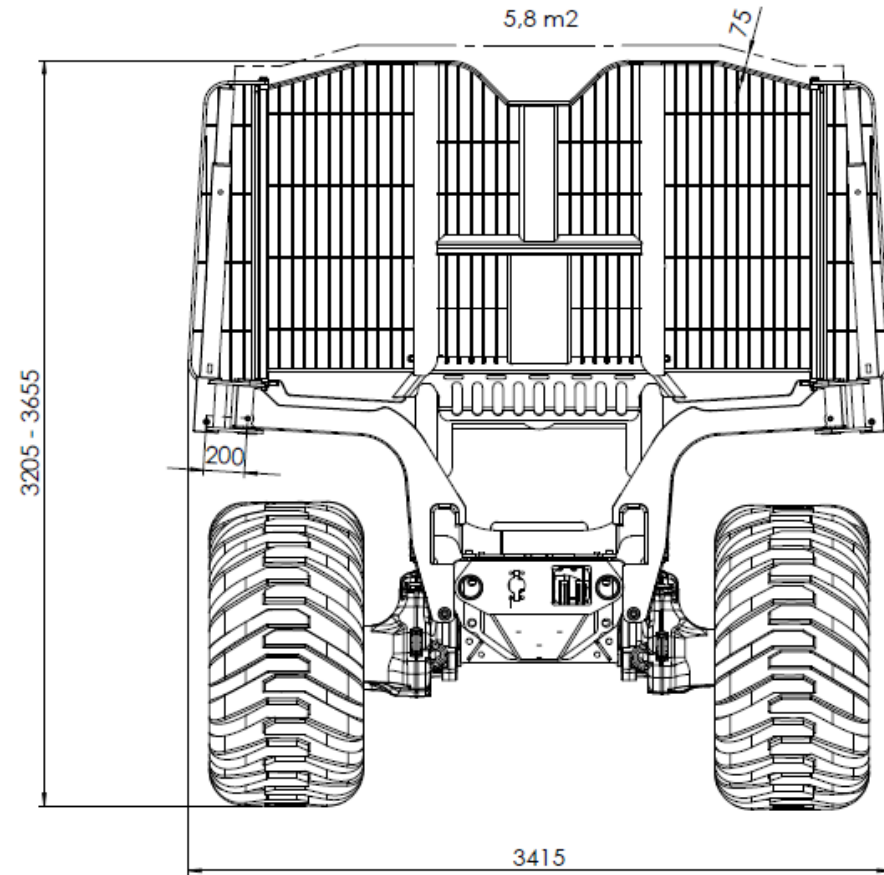
Elephant King, rear frame 3950 mm turning radius



Elephant King, rear frame 4600 mm turning radius



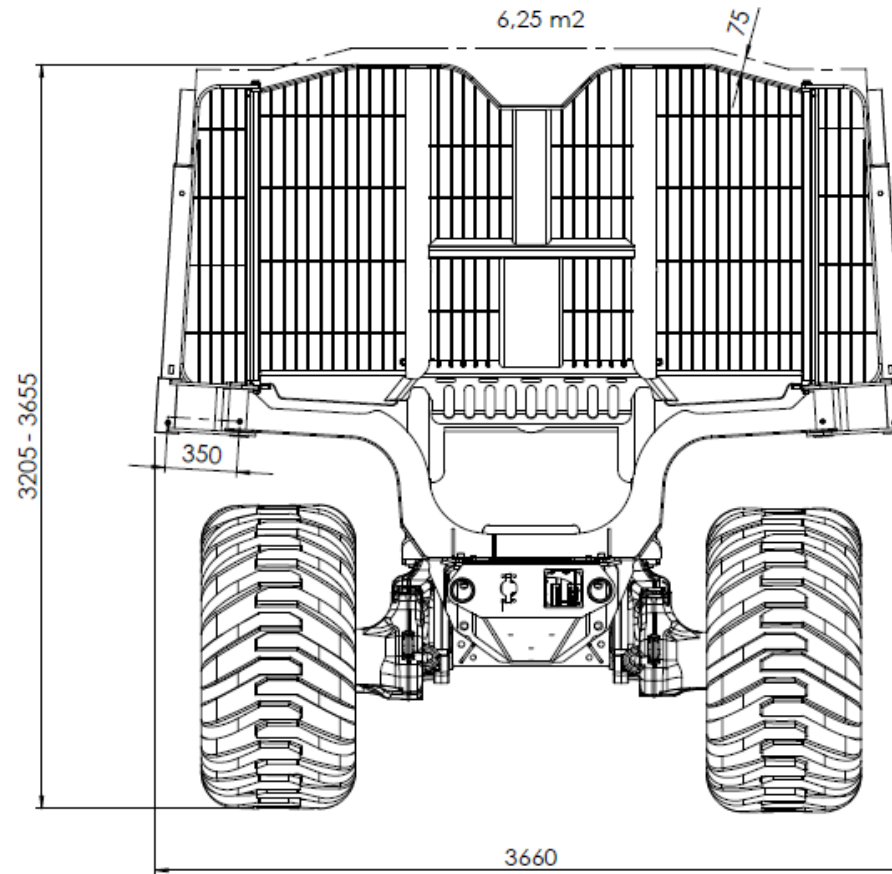
Loadspace 5.8 m²



Standard

K01380
K01383

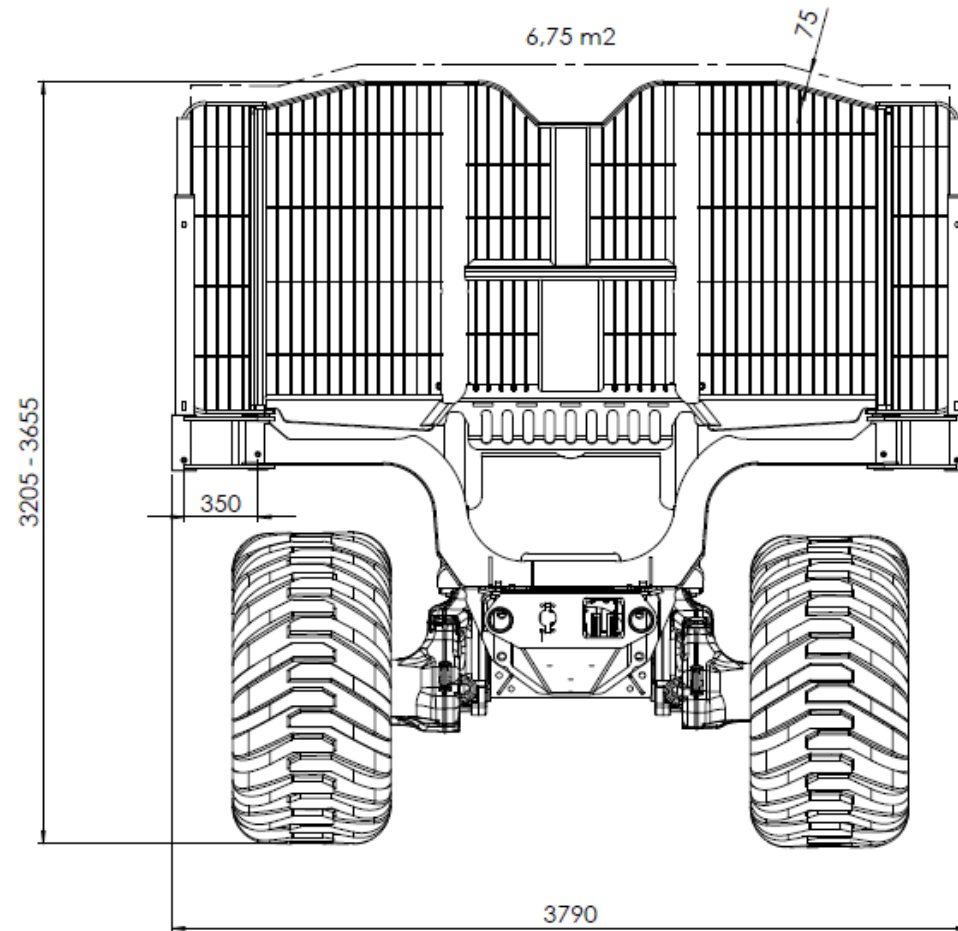
Loadspace 6.25 m²



Standard+extension 350mm

K01294
K01382

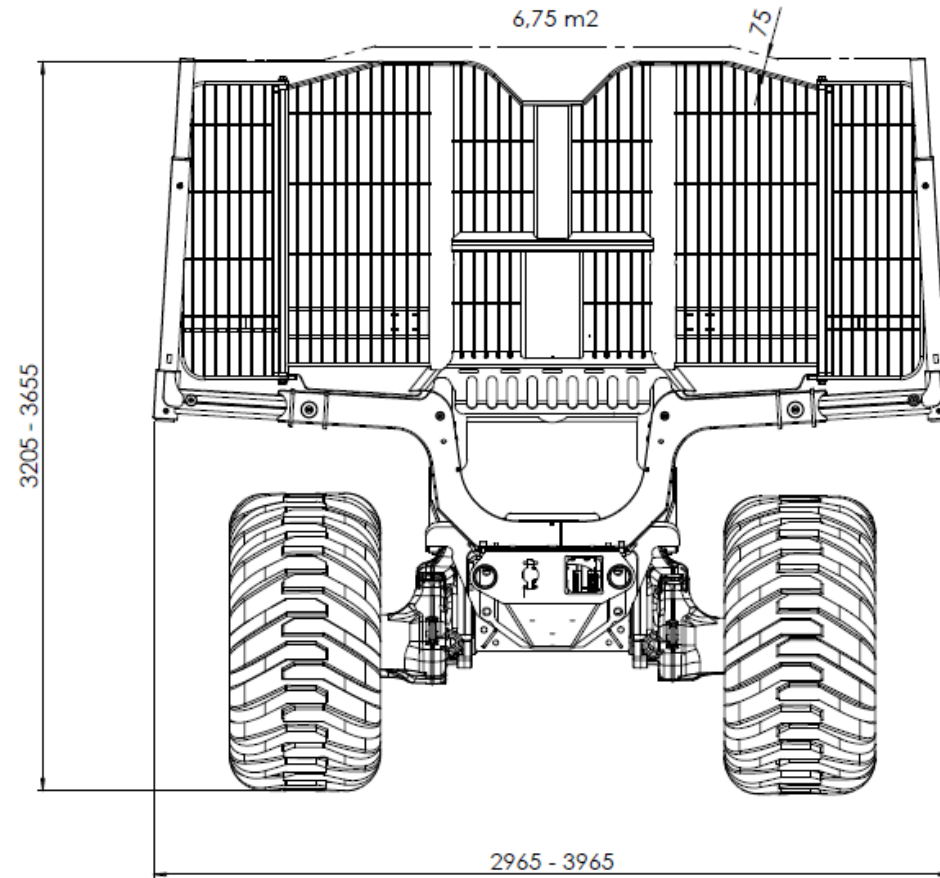
Loadspace 6.75 m²



350mm extensions 6,75m²

K01290

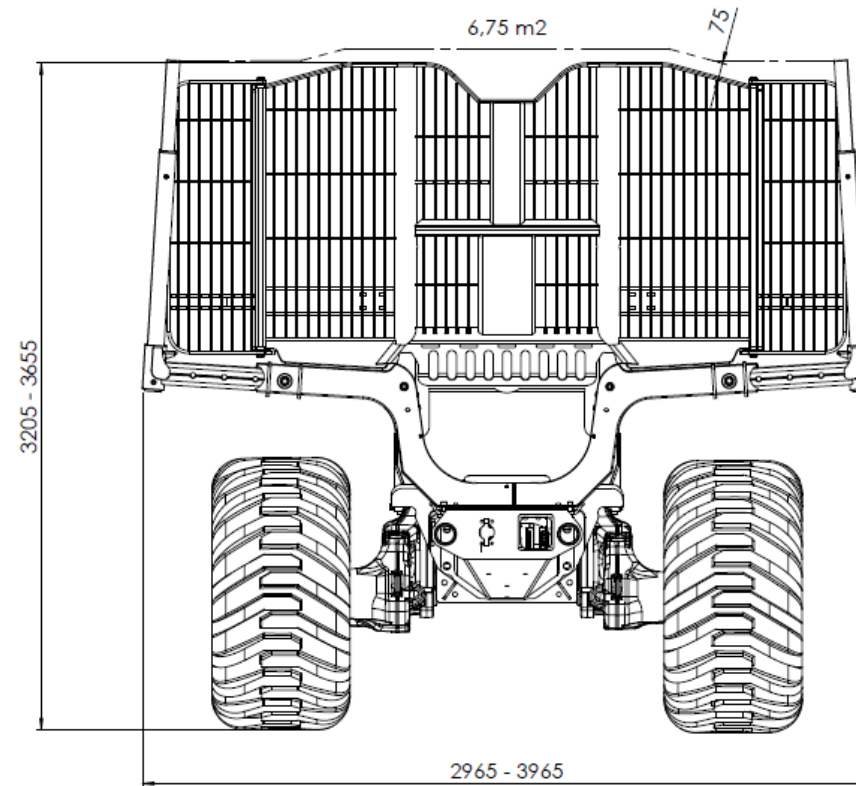
Load space Hydraulic VLA



Hydraulic VLA

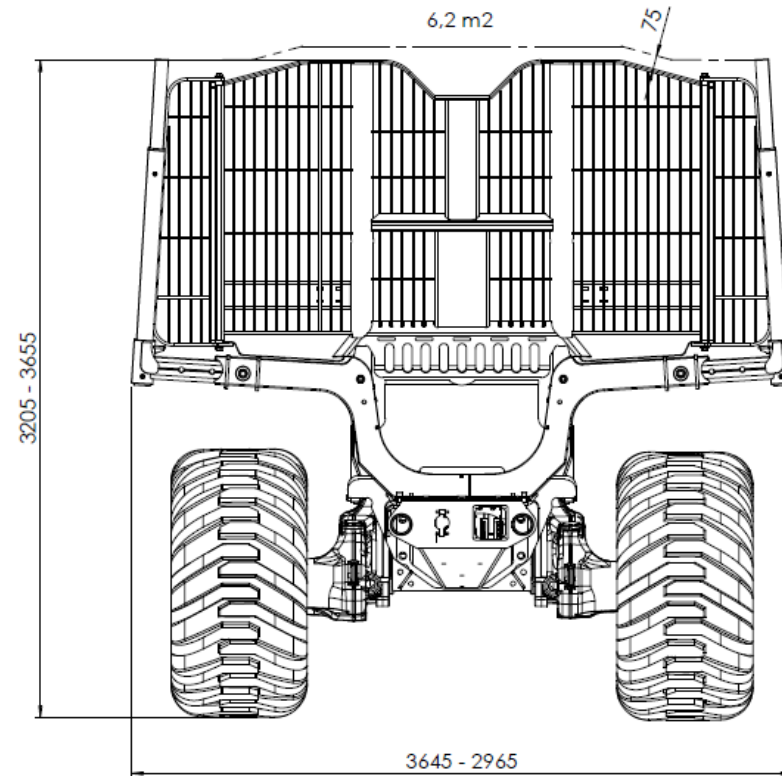
K01184

Load space mechanical VLA



VLA, mechanical
K01384

Load space mechanical VLA & limited opening



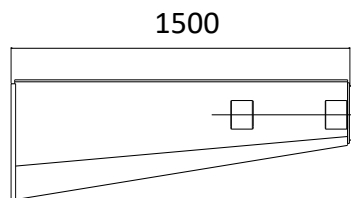
VLA, mechanical & limited

K01385

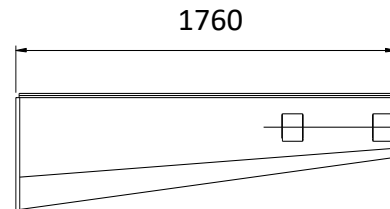
PONSSE ElephantKing

LOAD AREA LENGTH WITH DIFFERENT OPTIONS

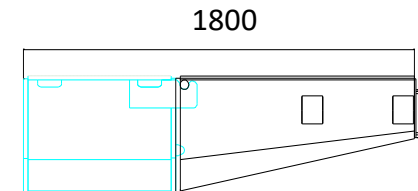
REAR FRAME EXTENSION 3 OPTION	LOAD AREA LENGTH WITH DIFFERENT FRAME OPTIONS, REAR FRAME EXTENSION OPTIONS AND GLIDE BUNK			
	Short rear frame 3300 mm without glide bunk	Short rear frame 3300 mm + glide bunk 700 mm	Long rear frame 3950 mm without glide bunk	Long rear frame 3950 mm + glide bunk 700 mm
(A) Standard rear frame extension 1500 mm	4540 mm	4540 mm – 5240 mm	5190 mm	5190 mm – 5890 mm
(B) Long rear frame extension 1760 mm	4800 mm	4800 mm – 5500 mm	5450 mm	5400 mm – 6150 mm
(C) Winch extension 1800 mm	4840 mm	4840 mm – 5540 mm	5490 mm	5490 mm – 6190 mm



(A) Standard rear frame extension

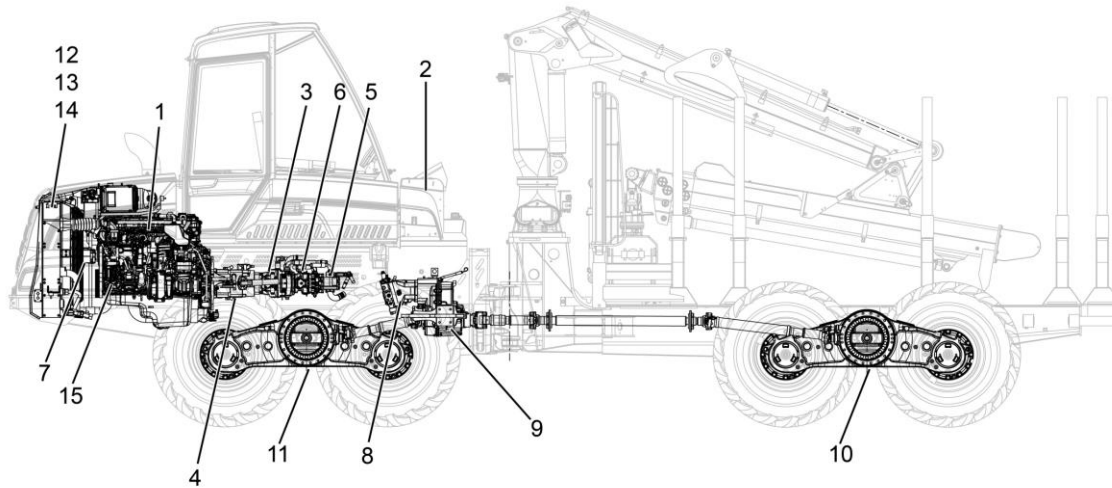


(B) long extension



(C) winch extension

Main components Elephant King



1. Engine

Europe: Mercedes-Benz OM 936 LA (EU Stage V & Tier4 Final)
Outside Europe: Mercedes-Benz OM 906 LA

(EU Stage 3A)

2. Directional valve

PARKER K220 LS

3. Drivetrain pump

Danfoss H1P210

4. Crane pump

REXROTH A11VLO190

5. Circulation pump

75 cm³

6. Hydraulic fan pump

Danfoss H1P45

7. Hydraulic fan motor

Danfoss LC25

8. Drivetrain motor

Danfoss H1B250

9. Transmission gear box

NAF PO93

10. Rear bogie

NAF PO116 (balanced), NAF PO96 (without

balancing)

11. Front bogie

NAF PO116 (balanced), NAF PO96 (without

balancing)

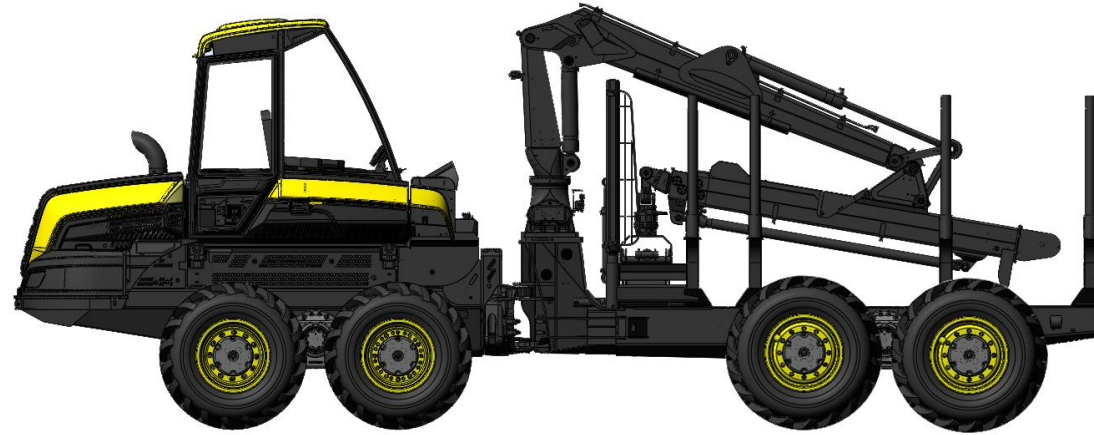
12. Engine cooler

13. Air conditioner cooler

14. Hydraulic oil cooler

15. Air compressor

Surface pressure Elephant King



	Front	Rear	Rear, 20 ton load
No tracks:	56 kPa	43 kPa	134 kPa
With 800mm tracks (rear):	33 kPa	26 kPa	72 kPa

Weight

Machines minimum weight is it's dry weight in lightest setup (smallest crane model, harvester head, tyres etc.) with NO optional equipment, fuel, hydraulic oil, tyre ballast liquid, tracks or chains.

Typical weight is machine in working condition with full tanks of fuel and hydraulic oil, equipment typically delivered from factory - but always without tracks or chains, tyre ballast or some other possible options or equipment.

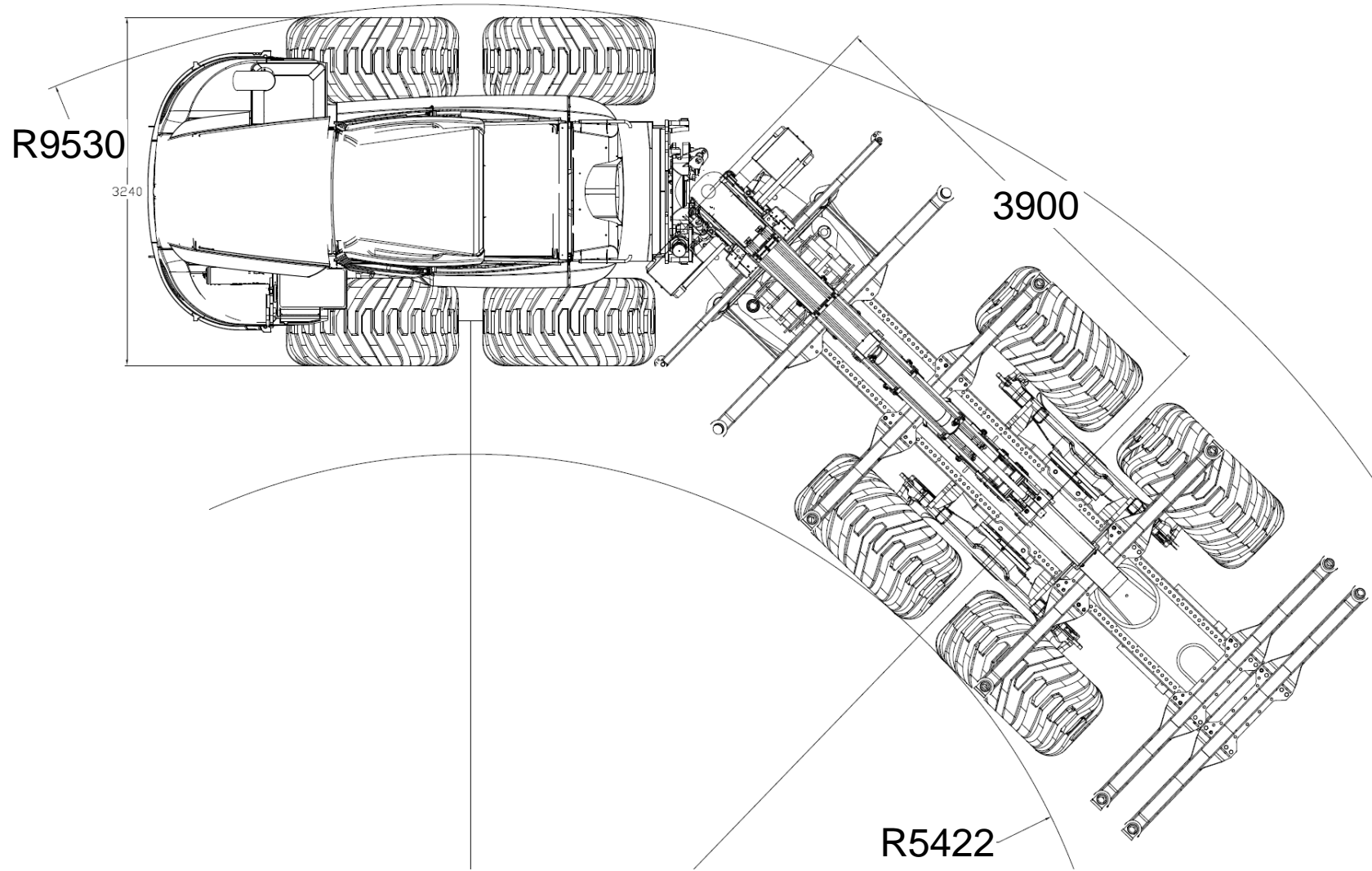
When talking about machine weight it's good to know that there are many factors that significantly effect the real weight of individual machine.

Examples of weight of different equipments or materials (not precise weights):

Fuel (empty → full):	310 kg
Hydraulic oil (empty → full tank):	230 kg
DEF (empty → full tank):	32 kg
Tyres, 710 vs 600,	300 / 400 kg (6 / 8-wheels)
Rear frame length S→L	250 kg
Glide bunk	250 kg
Turnable bunk extensions	30 kg/pcs
Balanced bogie	150 kg / axle
Bonnet guard	70 kg
Bulldozer blade	700 kg
ActiveFrame	700 kg
VLA load space	500 kg
Sepson winch	400 kg
Ponsse synchrowinch	2000 kg
Clam bunk	1000 kg

Tracks typically weight 1800-2100 kg/pair, chains 400-500 kg/pair

Turning radius Elephant King (3900 back frame and 0-offset)



Technical data comparison

FEATURE	PONSSE ElephantKing	JOHN DEERE 1910E (8wd)	VALMET 895 (8WD)
Load Capacity	20 000 kg	19 000 kg	20 000 kg
Load Area Length	4540 - 5450 mm (+700mm)	4800 - 5700 mm	-
Load Area Cross Section	5,8 – 6,7 m ²	5,3 / 6,6 m ²	5,2 m ² / 6,1 m ²
Tractive Force	250 kN	230 kN	260 kN
Weight (min)	22 900 kg	21 800 kg	23 800 kg
Length	10 150 – 11 060 mm (+700 mm)	10 370 – 11 270 mm	10 790 mm
Width (750 tires)	3070 – 3210 mm	3090 mm	3160 mm
Transport Height	3990 mm	3900 mm	4000 mm
Ground Clearance	800 mm	755 mm	790 mm
Articulated Steering Angle	±44°	±42°	±42°
Engine	EU & NA: MB OM936 LA (EU Stage V, tier 4F) Other: MB OM 906 LA (6 cyl.)	JD 6090 PowerTech plus (6 cyl.)	AGCO POWER 74 AWI-4V (6 cyl.)
Power	EU & NA: 210 kW / 286 hp Other: 205 kW / 275 hp	200kW / hp	214 kW / hp
Torque	EU: 1200 Nm (1200-1600 rpm) Other: 1100 Nm (1200-1600 rpm)	1315 Nm (1400 rpm)	1280 Nm (1200-1700 rpm)
Crane Pump	190 cm ³ / 235bar	180 cm ³ / 240 bar	180 cm ³ / 245 bar
Hydr.oil container	170 l	185 l	167 l
Crane	PONSSE K121+ (S/M)	CF8	Komatsu 165F
Lifting Moment (gross)	195 kNm	151 kNm	165 kNm
Max. Reach	8 / 10 m	7,2/8,5 m	7,5 / 8,5 m