



PONSSE

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# TECHNICAL DATA

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- Elephant -

# Technical data, Elephant

## DIMENSIONS

Length	10 150 – 11 060 mm (400– 436 in) + glide bunk 700 mm (27 in)
Width	2990 – 3300 mm (118 – 130 in)
Transportation height (Max)	3990 mm (157 in)
Ground clearance	800 mm (32 in)
Weight	8 wheel: 22 000 kg (48.500 lbs) Typical 8w: 22 800 kg (50.260 lbs)

## LOAD CAPACITY

Load capacity	18 000 kg (39.700 lbs)
Load space cross section	5,8 -6,25 m <sup>2</sup> (62.5 – 67.3 sq ft)
Load space length	4 540 – 5 450 mm (179 -214 in) + glide bunk 700 mm (28 in)

## CRANE

Model	PONSSE K100+
Lifting moment	160 kNm (118,01 lb-ft)
Reach	S: 7,8 m / M: 9,5 m (25.6 or 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	220 kN (49.500 lbf)
Fuel tank capacity	260 l (67 gal, US)

## TIRES

Front and rear:	750/55 – 26,5” 750/50 – 26,5”
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## HYDRAULIC SYSTEM

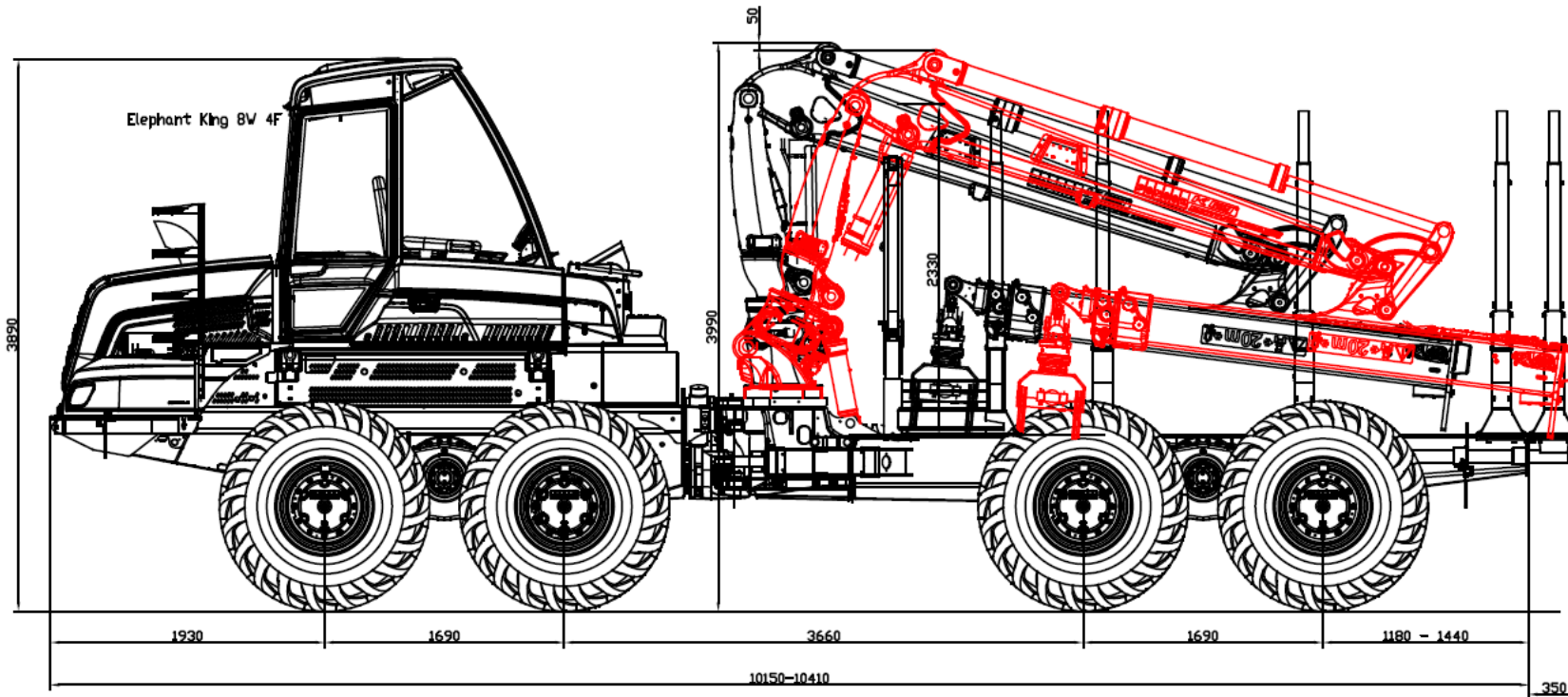
Control system	Ponsse OptiControl
Working pump	190 cm <sup>3</sup> (11.6 cu in)
Oil tank capacity	170l (45 gal)

# Machine width - different offset/wheels

Tyre	750/55-26,5	750/55-26,5	750/55-26,5
Rim offset	0	+40	+70
Machine width (nominal)	3130 mm	3050 mm	2990 mm
Max. track width	970 mm	840 mm	No tracks

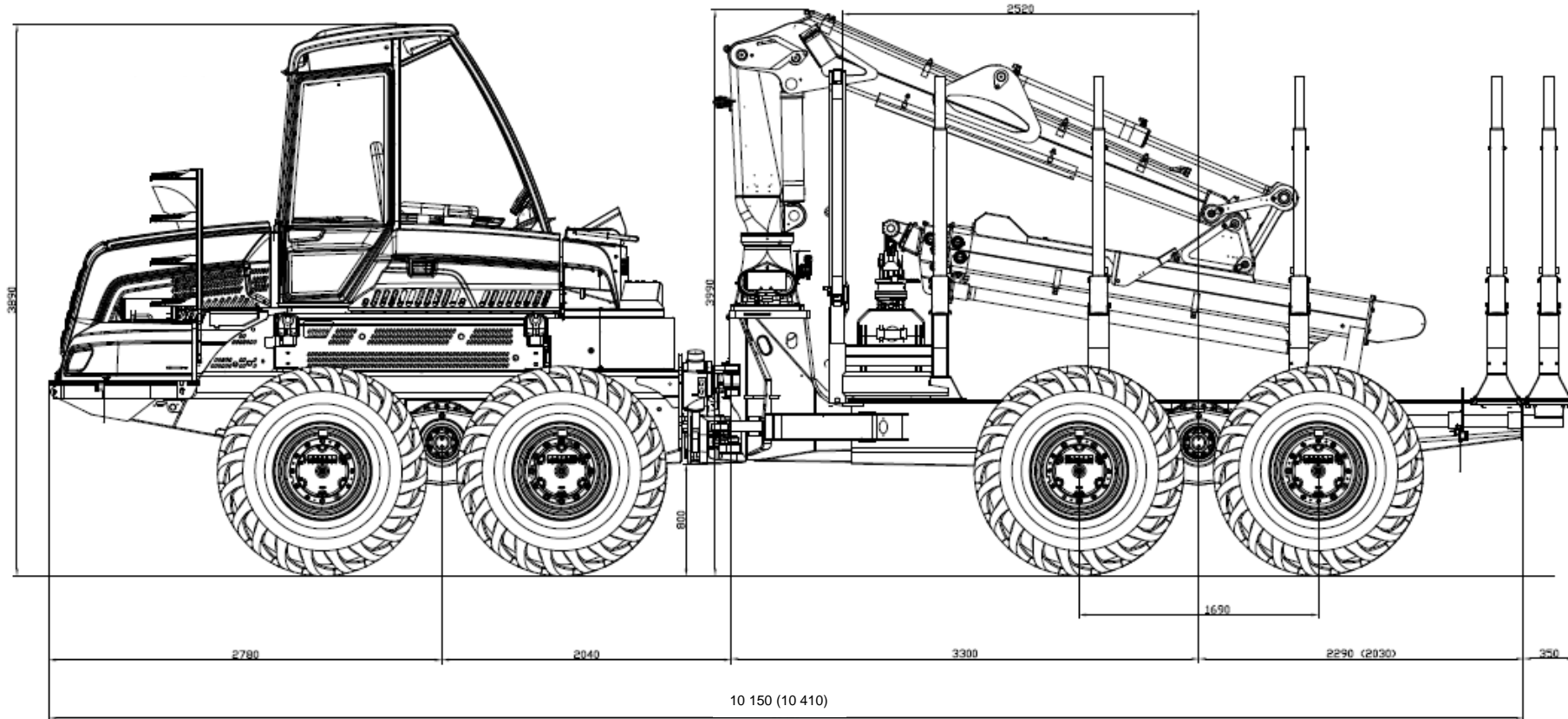
- With offset +40 there is possibility to turn rim and get offset -55. Then machine width is 3358mm. Maximum symmetrical track width is 1200mm.

# Elephant K121

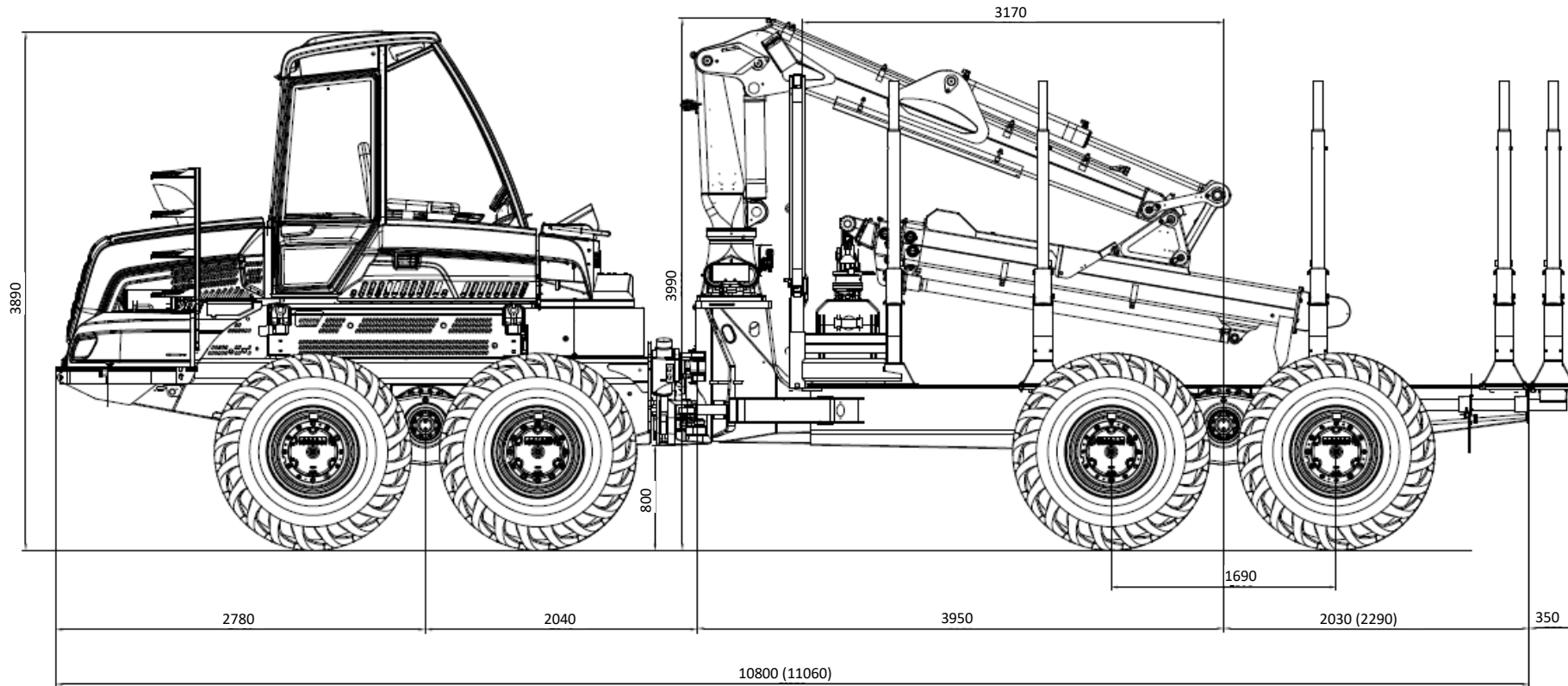


# Elephant K100+

3300 back frame, short/long extension

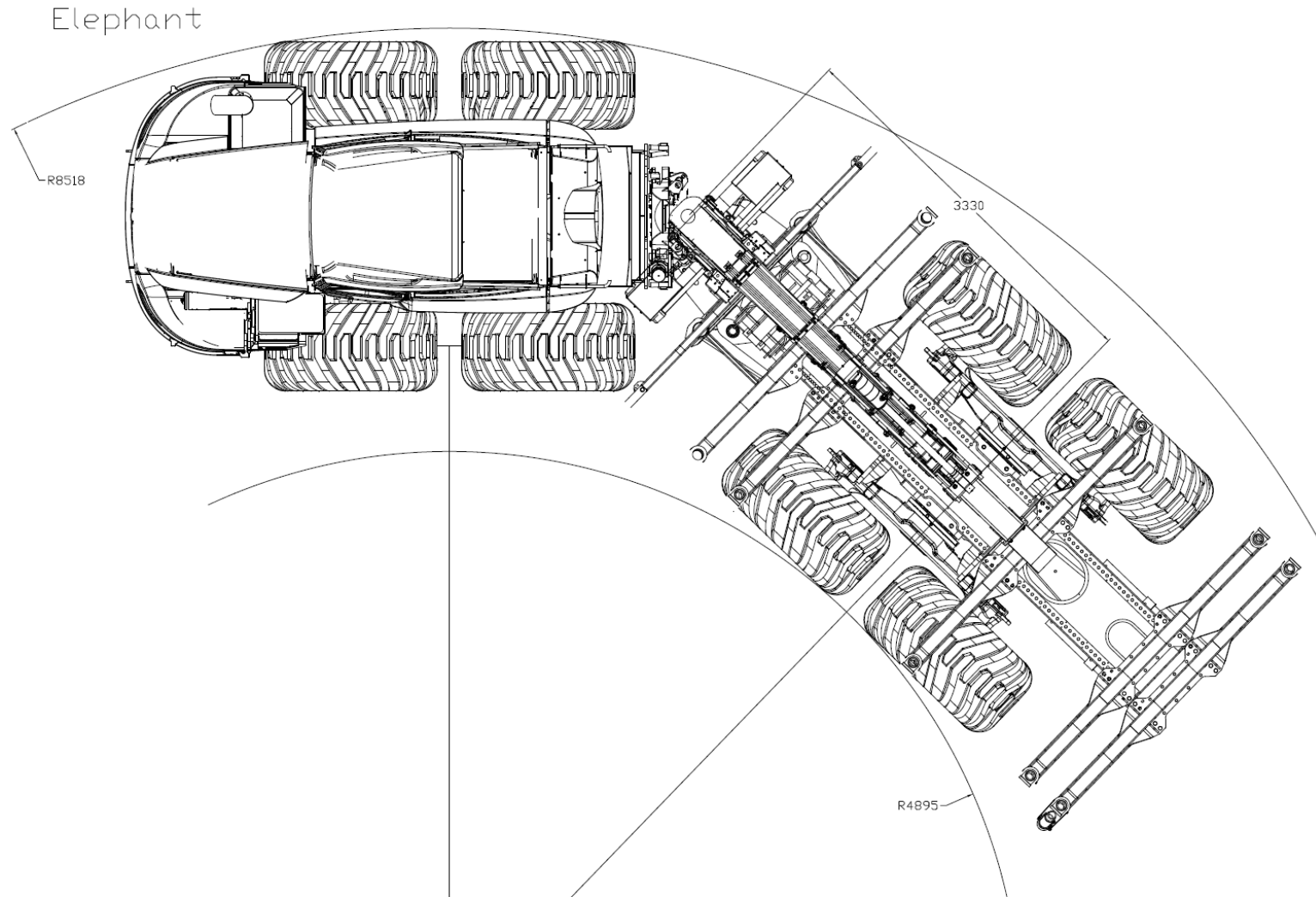


# Elephant K100+ 3900 back frame, short/long extension



# Elephant K100+

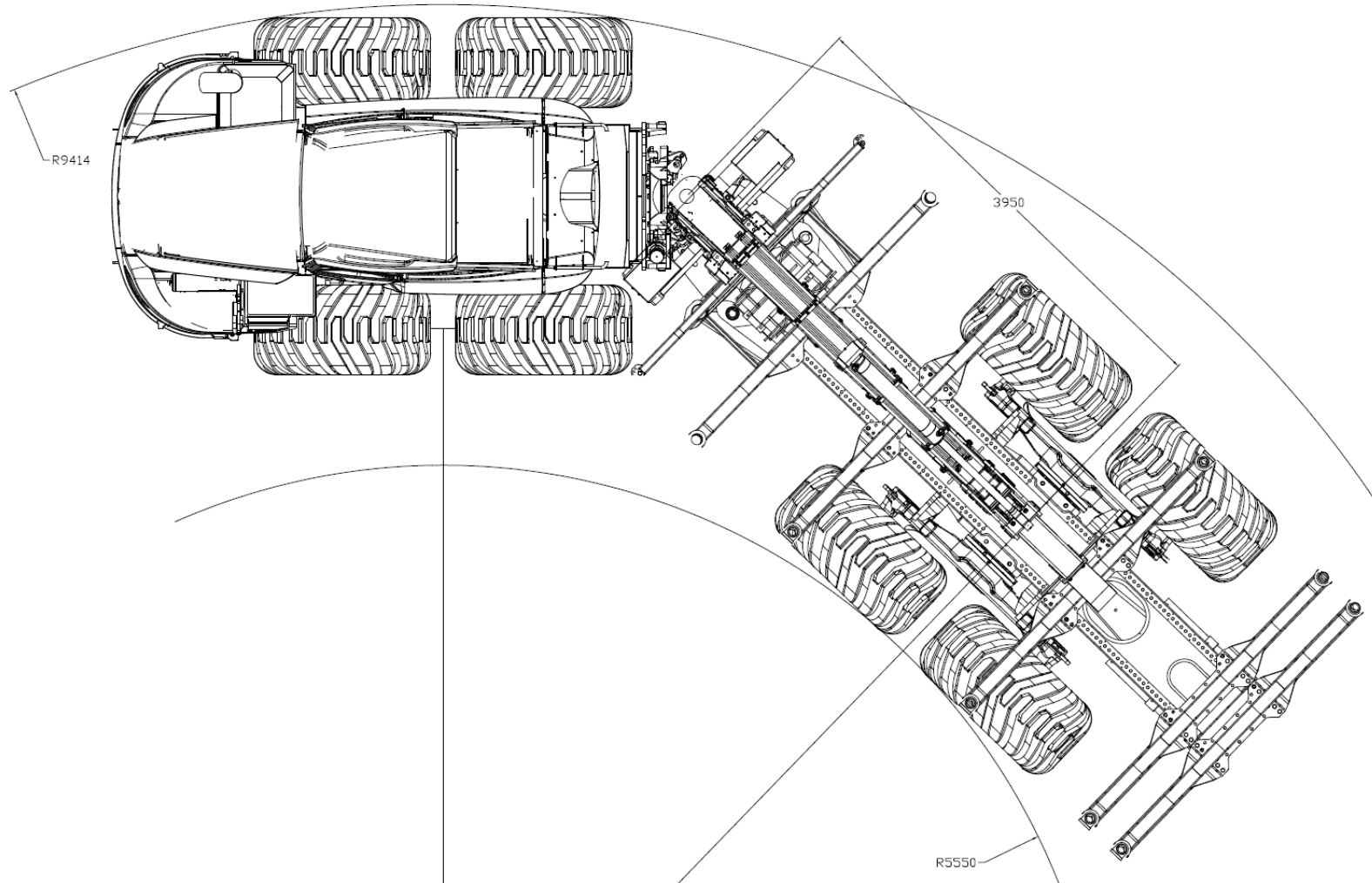
3300 back frame, turning radius



# Elephant K100+

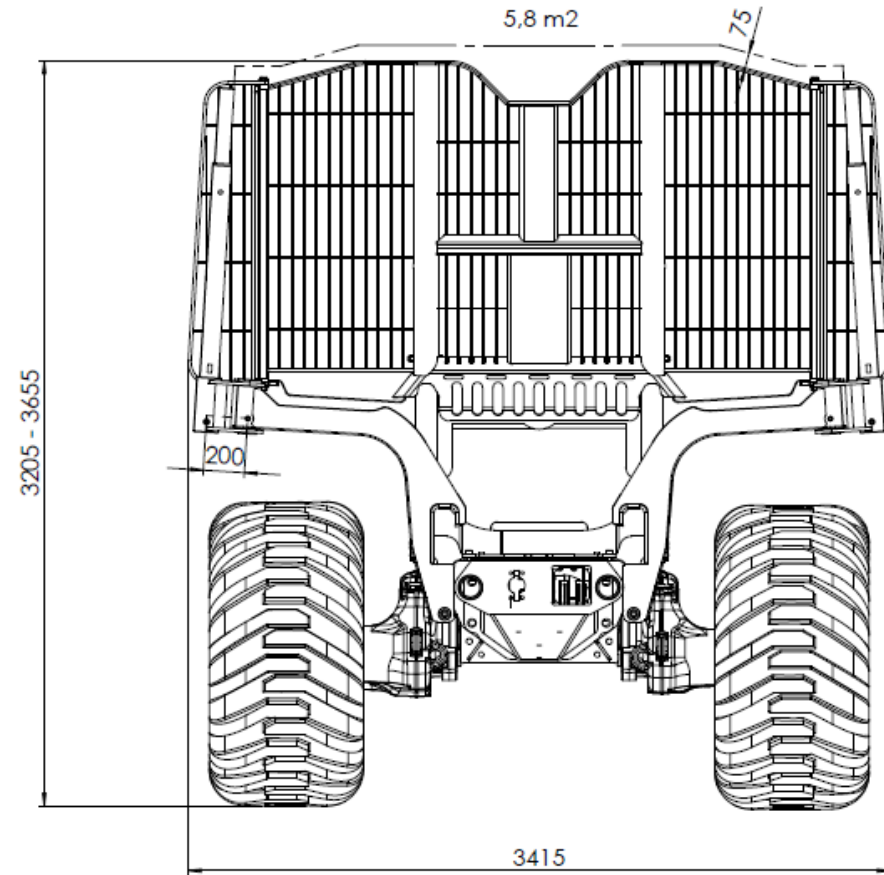
3900 back frame, turning radius

Elephant





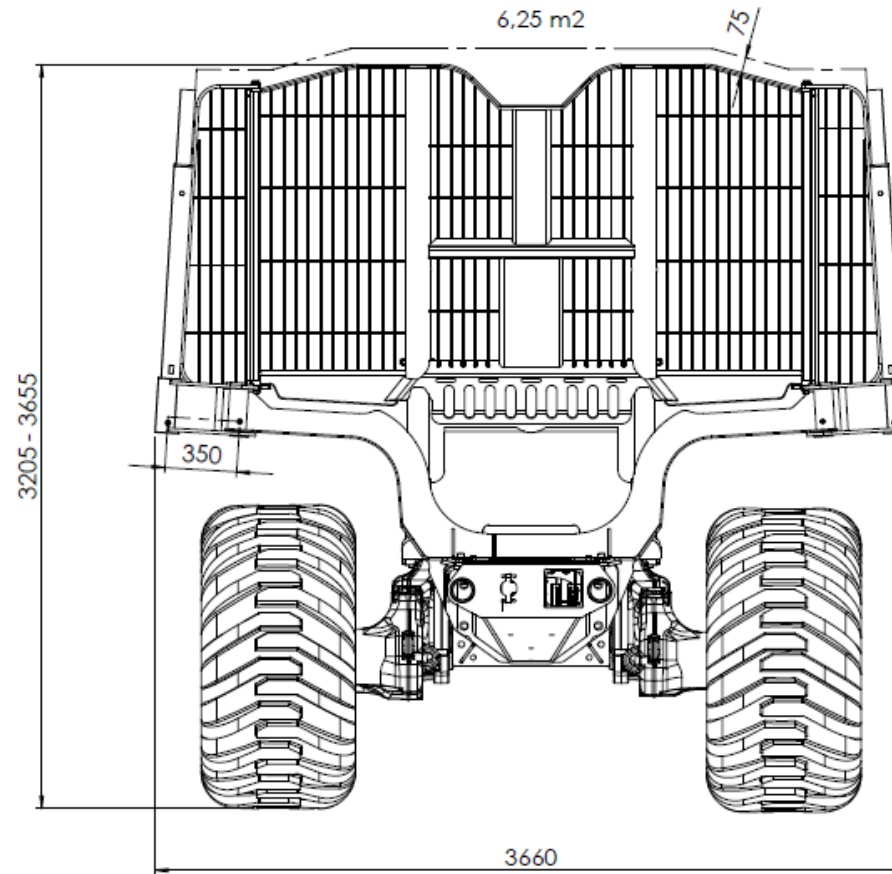
# Loadspace 5.8 m<sup>2</sup>



Standard

K01380  
K01383

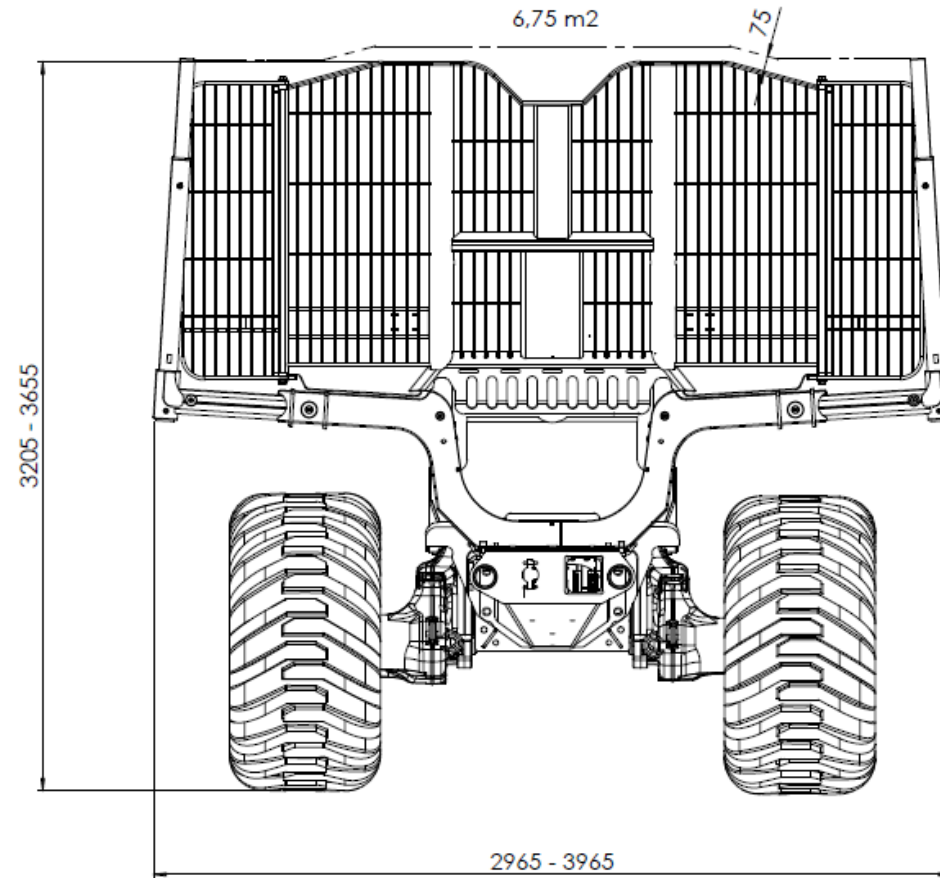
# Loadspace 6.25 m<sup>2</sup>



Standard+extension 350mm

K01294  
K01382

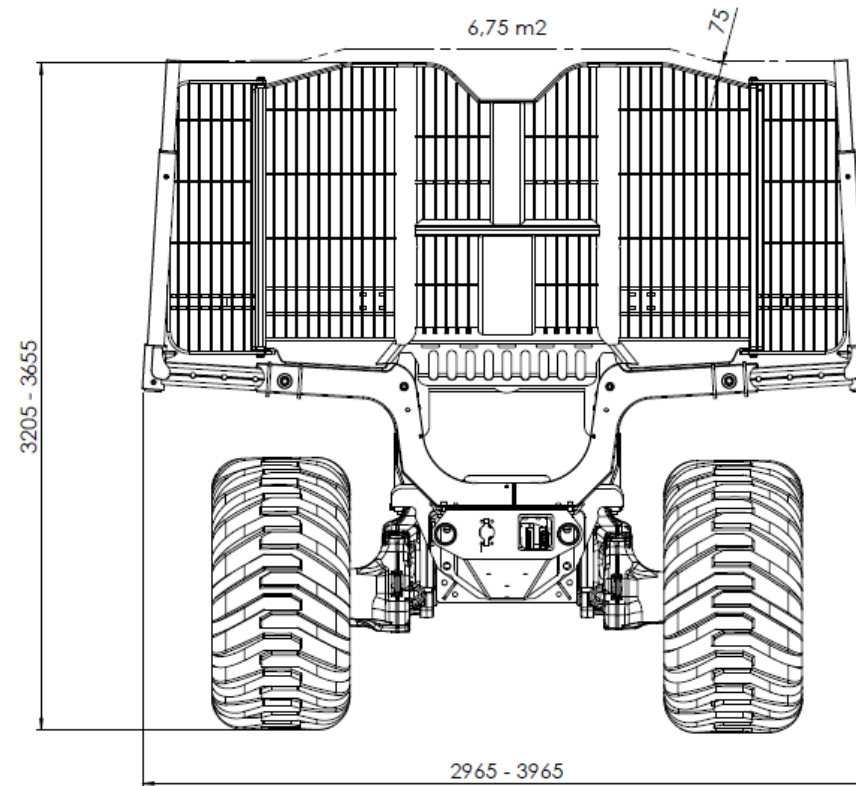
# Load space Hydraulic VLA



Hydraulic VLA

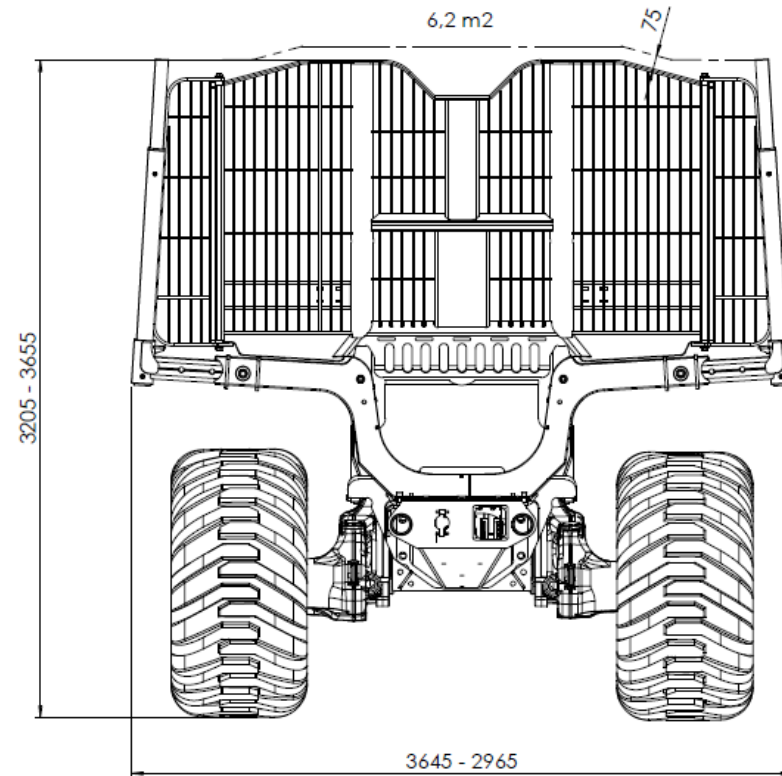
K01184

# Load space mechanical VLA



VLA, mechanical  
K01384

# Load space mechanical VLA & limited opening



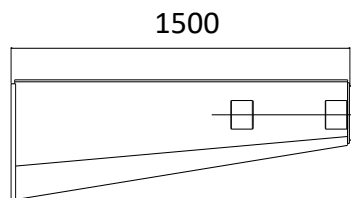
VLA, mechanical & limited

K01385

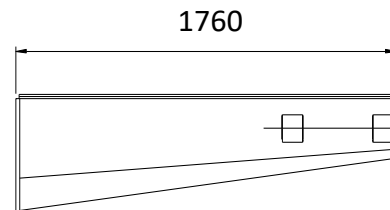
# PONSSE Elephant

## LOAD AREA LENGTH WITH DIFFERENT OPTIONS

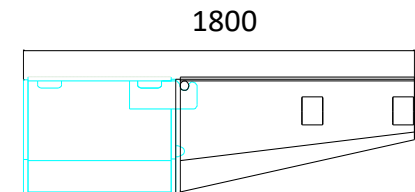
REAR FRAME EXTENSION 3 OPTION	LOAD AREA LENGTH WITH DIFFERENT FRAME OPTIONS, REAR FRAME EXTENSION OPTIONS AND GLIDE BUNK			
	Short rear frame <b>3300</b> mm without glide bunk	Short rear frame <b>3300</b> mm + glide bunk <b>700</b> mm	Long rear frame <b>3950</b> mm without glide bunk	Long rear frame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



**(A) Standard rear frame extension**

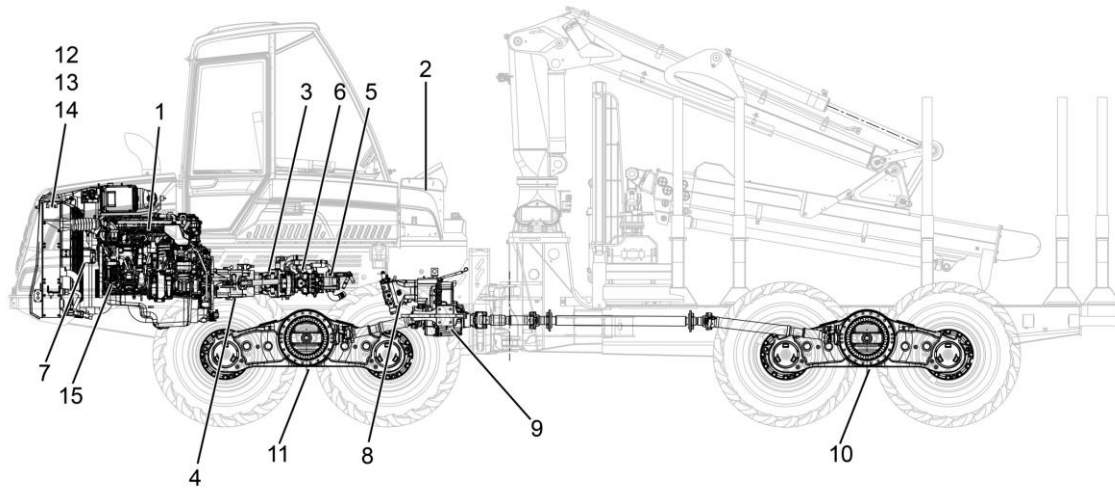


**(B) long extension**



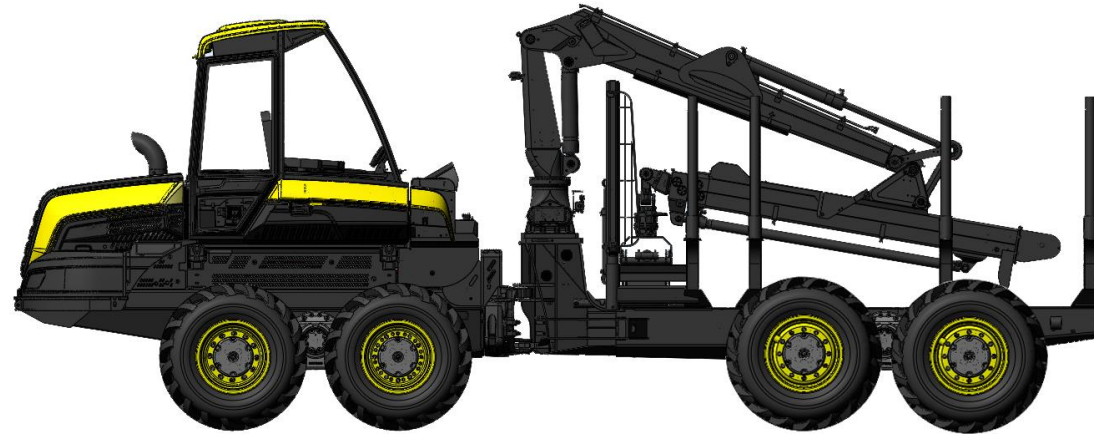
**(C) winch extension**

# Main components Elephant



- |                               |   |
|-------------------------------|---|
| 1. Engine<br>to NA)           | 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 cm <sup>3</sup>  |
| 6. Hydraulic fan pump         | Danfoss H1P45   |
| 7. Hydraulic fan motor        | Danfoss LC25  |
| 8. Drivetrain motor           | Danfoss H1B250  |
| 9. Transmission gear box      | NAF PO77  |
| 10. Rear bogie<br>balancing)  | NAF PO76 (balanced), NAF PO57 (without                    |
| 11. Front bogie<br>balancing) | NAF PO76 (balanced), NAF PO57 (without                    |
| 12. Engine cooler             |   |
| 13. Air conditioner cooler    |   |
| 14. Hydraulic oil cooler      |   |
| 15. Air compressor            |   |

# Surface pressure Elephant



	Front	Rear	Rear, 18 ton load
No tracks:	56 kPa	43 kPa	121 kPa
With 800mm tracks (rear):	33 kPa	26 kPa	65 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.

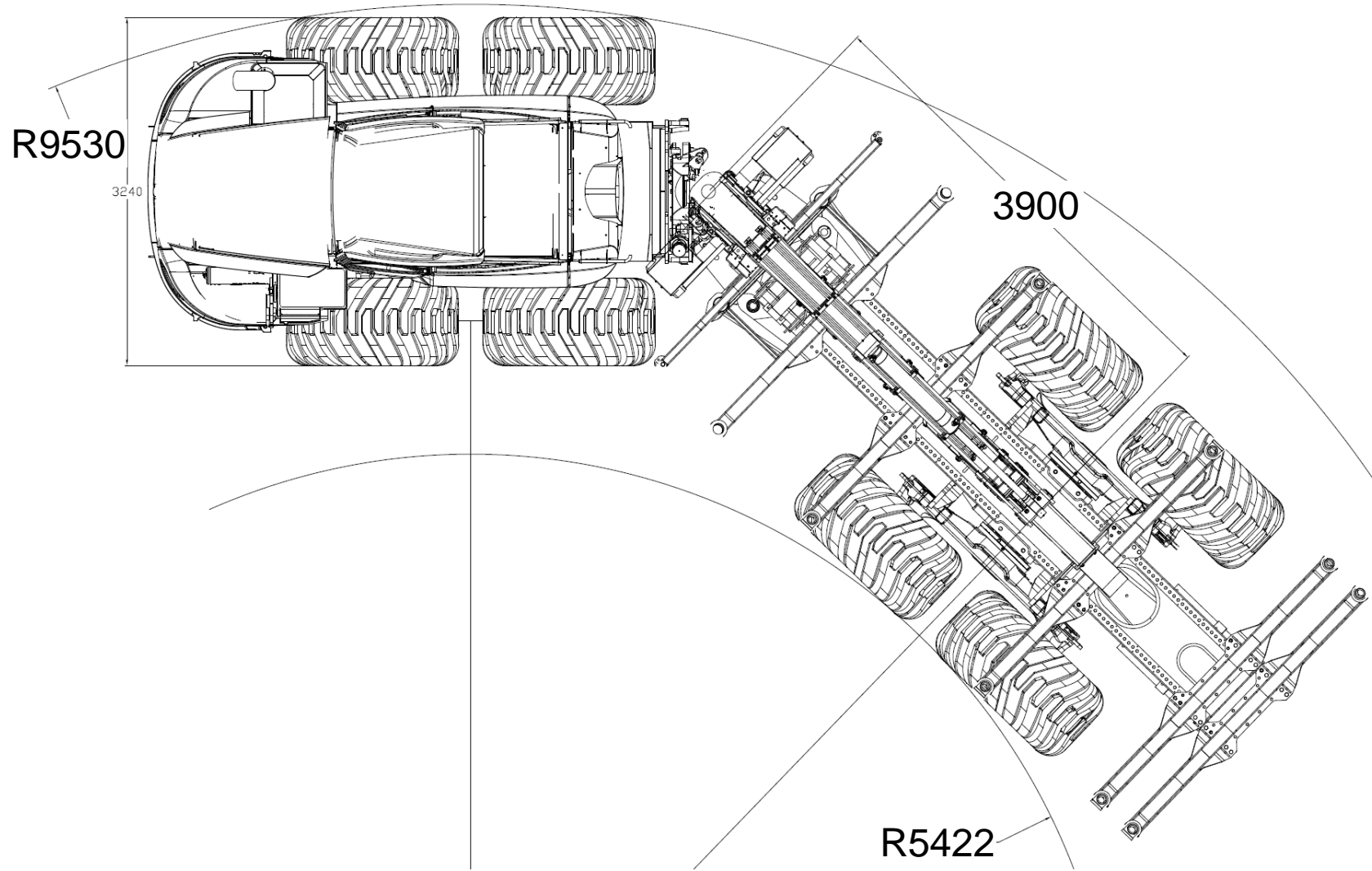
When talking about machine weight it's good to know that there are many factors that significantly effect the real weight of individual machine.

## 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 (3900 back frame and 0-offset)



# Technical data comparison

FEATURE	PONSSE Elephant	JOHN DEERE 1910E (8wd)	VALMET 895 (8WD)
Load Capacity	18 000 kg	19 000 kg	20 000 kg
Load Area Length	4540 - 5450 mm (+700mm)	4800 - 5700 mm	-
Load Area Cross Section	5,8 – 6,25 m <sup>2</sup>	5,3 / 6,6 m <sup>2</sup>	5,2 m <sup>2</sup> / 6,1 m <sup>2</sup>
Tractive Force	220 kN	230 kN	260 kN
Weight (min)	22 000 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)	2990 – 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 <sup>3</sup> / 235bar	180 cm <sup>3</sup> / 240 bar	180 cm <sup>3</sup> / 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