SCANIA

PK23500

SCANIA P410 B6X4HZ

NEW ON REQUEST

SPECIFICATION

SCANIA P410 B6X4HZ EURO III

PK23500

Installation MCC Poland

OFFER INFORMATION

Location details

Köstendorf, 5203 - Austria

Dealer Name

PALFINGER EMEA GmbH

Availability

On request

Product type

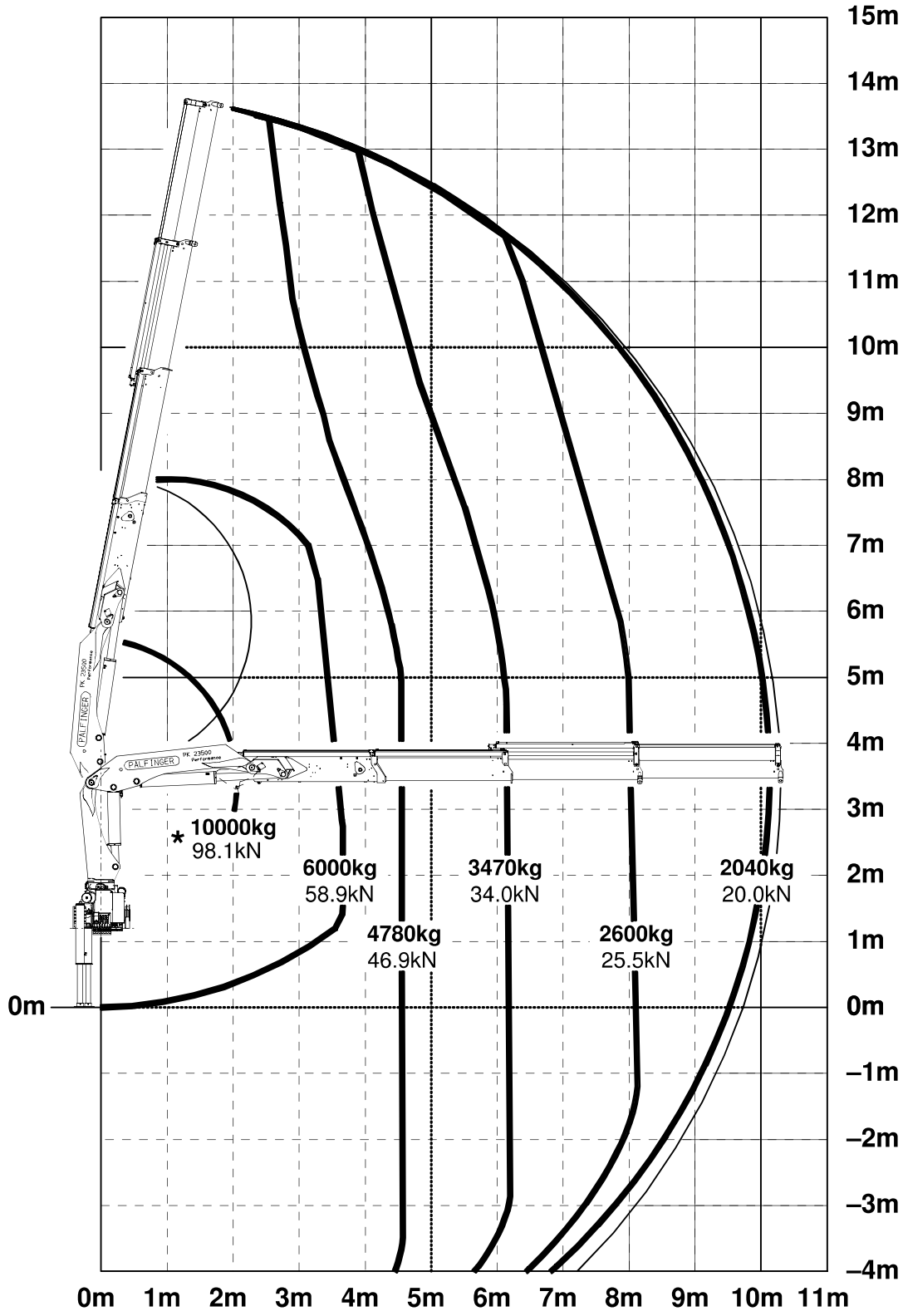
new

Dealer E-mail

sales@palfinger.com

Dealer phone

004366488345792



Schwerlastgehänge
* *Heavy load attachment*
La suspension de charge lourd

Konstruktionsänderungen vorbehalten, fertigungstechn. Toleranzen müssen berücksichtigt werden.
Subject to change, production tolerances have to be taken into account.
Sous reserve de modifications de conception. Les tolerances relatives a la technique de production doivent etre prises en consideration.

Einstufung: H1/B3 nach EN12999
Classification: H1/B3 in EN12999
Classement: H1/B3 en mesure EN12999

PALFINGER

PK 23500 PERFORMANCE

MINIMAL DEAD WEIGHT AND GREAT OUTREACH

LIFETIME EXCELLENCE

LIFETIME EXCELLENCE

PALFINGER loader cranes are convincing due to their superior life-cycle performance. They are the most economical and also the most reliable over the entire product life. From solution finding to resale.

- **Better solutions**
- **Better efficiency**
- **Better ergonomics**
- **Higher availability**
- **More reliability**
- **Better ecology**
- **Higher serviceability**
- **Higher value retention**

For further information please visit: www.palfinger.com/thebrand


PALFINGER
PK 23500
WACKER

SAFE
AND EFFICIENT

With up to six hydraulic extensions and its impressive lifting moment the PK 23500 Performance is big at handling any job. Particularly safe and comfortable to control, it features three stabiliser spreads and – as an option – supports which can be swivelled up automatically.


schurrer stahlhandel
PALFINGER

RELIABLE
IN ANY SITUATION

10 Highlights

Functional Design
Practical and attractive

Robust plastic covers protect crane parts against dirt and damage. Better appearance and increased operational comfort – during the entire lifetime.

Ergonomic crane control
All information at a glance

The operating levers for all crane functions are arranged ergonomically on the console. This facilitates comfortable, efficient working. The control console is mounted so that it is easy to service.

High Speed Extension
For efficient assignments

The High Speed Extension speeds up the extension boom system. Crane works faster and more efficiently.

Coating technology
Top quality surface protection at a glance

The KTL coating lays the foundation for a perfect surface protection. Afterwards the components are either coated in the powder-coating facility or are finished with a two-components-topcoat. High value retention and excellent corrosion protection for the whole life of a crane.

Hose equipment for accessories
Versatile and user-friendly

With this option you can provide the oil supply to accessories. The hoses are routed in compact troughs and plastic link chains. They are therefore very well protected.

Internally routed oil ducts
Maximum protection thanks to compact design

The internally routed oil passages make it possible to have a compact design for the extension system and ensure perfect protection from damage.

Outriggers
For optimum stability

The 4.8 m (15' 9'') outrigger system installed as standard ensures good stability. As an option a 6.6 m (21' 9'') telescopic outrigger is available. The pipework to the support cylinders is internally routed in the outriggers, providing a high level of protection from damage at all times. On request, the outriggers can be supplied with support cylinders that swivel up hydraulically through 180°.

Central lubrication
Optimised lubrication

For all grease points on the base frame.

PAL 50*
Comfort and safety

The PALTRONIC 50, PALFINGER offers the latest control electronics for the series production crane. The custom designed electronic operates and monitors the crane and offers more efficiency in use and safety.

Radio remote control*
Dialogue with the operator

PALFINGER remote control systems offer the options of linear levers or joysticks. An LED display provides the crane operator with information about various operating conditions.

KTL protected
Paltronic 50 controlled*
RRC Radio Remote Control operated*

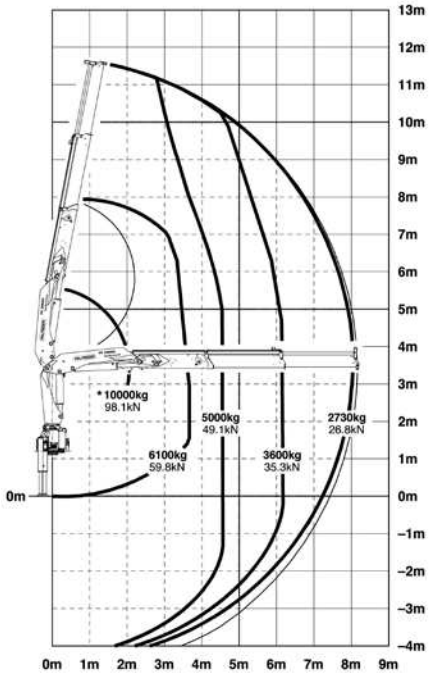
* Optional features / country-specific equipment

PK 23500

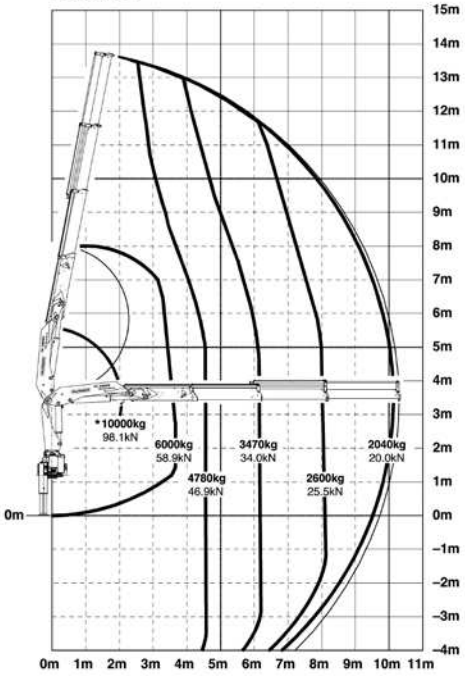
PERFORMANCE

The ideal working unit.

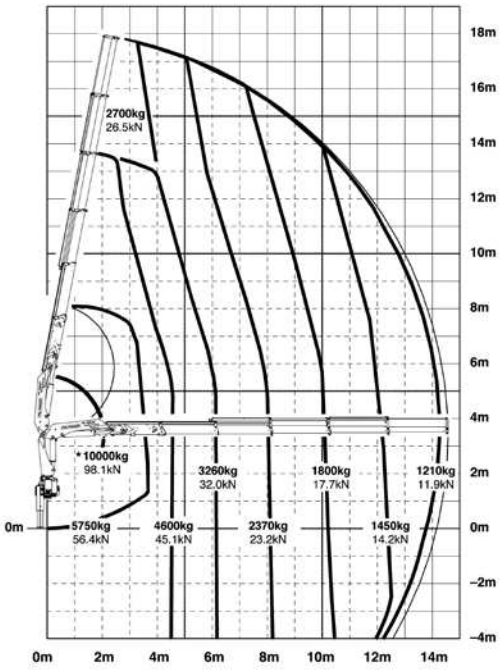
A



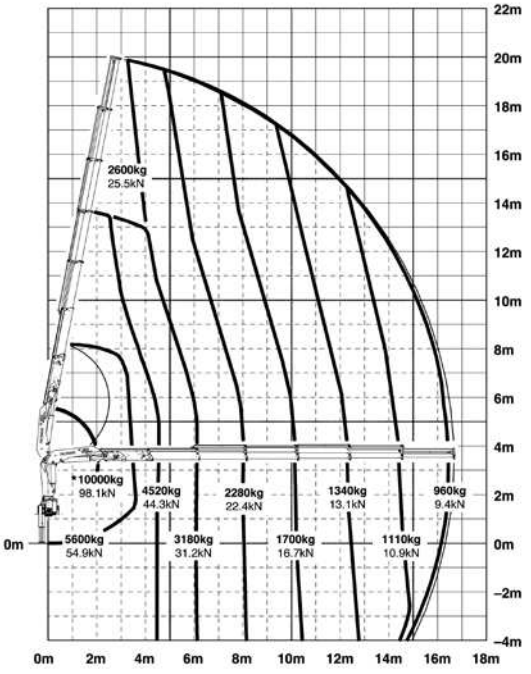
B



D



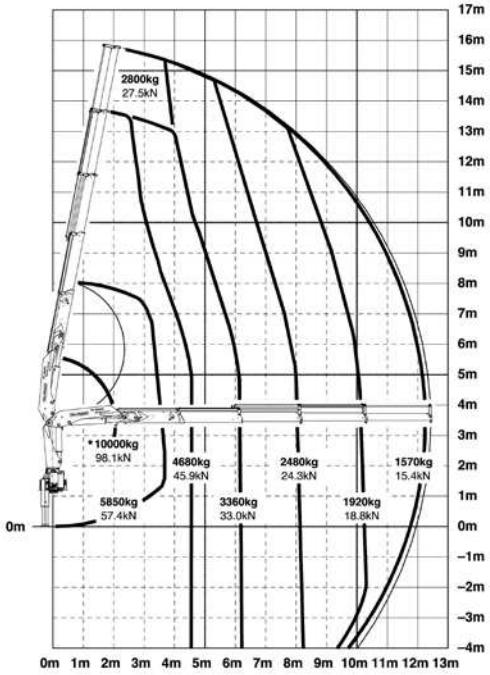
E



The outreaches stated are with a boom angle of 20° and are therefore not the maximum.

Lifting capacities

C



max.		**6100 kg**	**13450 lbs**	**A**
4.6 m	15’ 1’’	4900 kg	10800 lbs	
6.1 m	20’ 0’’	3600 kg	7940 lbs	
8.0 m	26’ 3’’	2730 kg	6020 lbs	

max.		**6000 kg**	**13230 lbs**	**B**
4.6 m	15’ 1’’	4780 kg	10540 lbs	
6.1 m	20’ 0’’	3470 kg	7650 lbs	
8.0 m	26’ 3’’	2600 kg	5730 lbs	
10.1 m	33’ 2’’	2040 kg	4500 lbs	
12.4 m*	40’ 8’’	1600 kg	3530 lbs	
14.6 m*	47’ 11’’	1310 kg	2890 lbs	
16.7 m*	54’ 9’’	1000 kg	2200 lbs	

max.		**5850 kg**	**12900 lbs**	**C**
4.6 m	15’ 1’’	4680 kg	10320 lbs	
6.1 m	20’ 0’’	3360 kg	7410 lbs	
8.0 m	26’ 3’’	2480 kg	5470 lbs	
10.1 m	33’ 2’’	1920 kg	4230 lbs	
12.3 m	40’ 4’’	1570 kg	3460 lbs	
14.5 m*	47’ 7’’	1280 kg	2820 lbs	
16.7 m*	54’ 9’’	1000 kg	2200 lbs	
18.7 m*	61’ 4’’	620 kg	1370 lbs	

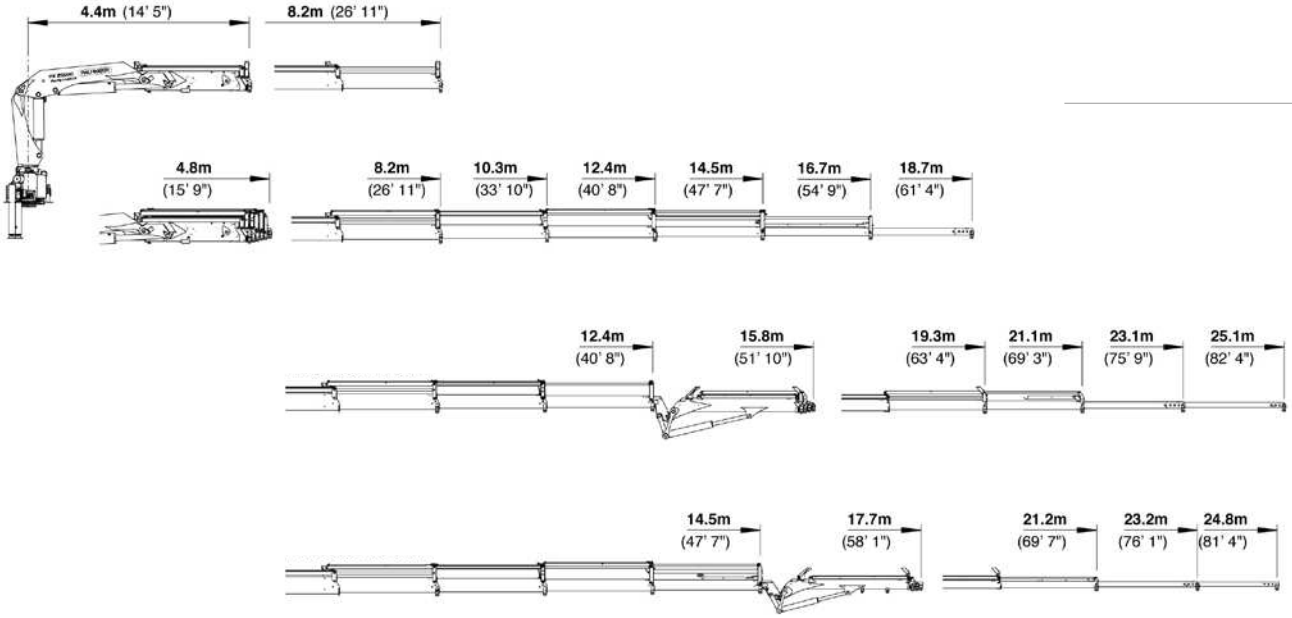
max.		**5750 kg**	**12680 lbs**	**D**
4.6 m	15’ 1’’	4590 kg	10120 lbs	
6.1 m	20’ 0’’	3260 kg	7190 lbs	
8.0 m	26’ 3’’	2370 kg	5220 lbs	
10.1 m	33’ 2’’	1800 kg	3970 lbs	
12.3 m	40’ 4’’	1450 kg	3200 lbs	
14.4 m	47’ 3’’	1210 kg	2670 lbs	
16.6 m*	54’ 6’’	1000 kg	2200 lbs	
18.6 m*	61’ 0’’	620 kg	1370 lbs	

max.		**5600 kg**	**12350 lbs**	**E**
4.6 m	15’ 1’’	4520 kg	9960 lbs	
6.1 m	20’ 0’’	3180 kg	7010 lbs	
8.0 m	26’ 3’’	2280 kg	5030 lbs	
10.1 m	33’ 2’’	1700 kg	3750 lbs	
12.3 m	40’ 4’’	1340 kg	2950 lbs	
14.4 m	47’ 3’’	1110 kg	2450 lbs	
16.5 m	54’ 2’’	960 kg	2120 lbs	
18.5 m*	60’ 8’’	620 kg	1370 lbs	

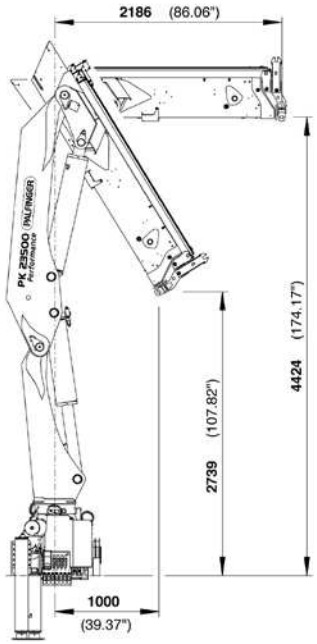
*mechanical extension

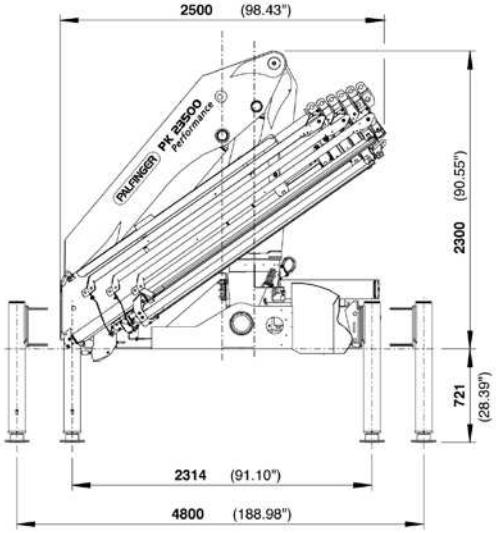
PERFECT DIMENSIONS

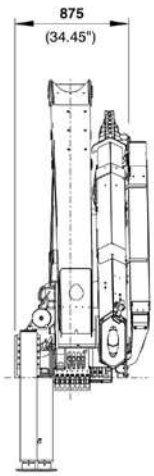
EXTENSION BOOM VARIATIONS



DIMENSIONS







Technical specifications
EN 12999 H1-B3

PK 23500

PK 23500D PJ 040A

PK 23500C PJ 060B

Max. lifting moment	23.0 mt/226.0 kNm	166630 ft.lbs
Max. lifting capacity	10000 kg/98.1 kN	22050 lbs
Max. hydraulic outreach	16.7 m	54’ 9’’
Max. manual outreach	18.8 m	61’ 8’’
Max. outreach (with fly-jib)	25.1 m	82’ 4’’
Slewing angle	400°	
Slewing torque	2.8 mt/27.0 kNm	19910 ft.lbs
Outreach	8.2 m	26’ 11’’
Stabilizer spread standard	4.8 m	15’ 9’’
Stabilizer spread max	6.6 m	21’ 9’’
Fitting space required	0.88 m	2’ 11’’
Widh folded	2.5 m	8’ 2’’
Max. operating pressure	300 bar	4350 psi
Recommended pump capacity with RC- and LS-system	from 50 l/min to 75 l/min from 65 l/min to 80 l/min	13.2 US gal./min 19.8 US gal./min 17.2 US gal./min 21.1 US gal./min
Dead weight standard crane	2346 kg	5170 lbs

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KP-PK23500M2+EN

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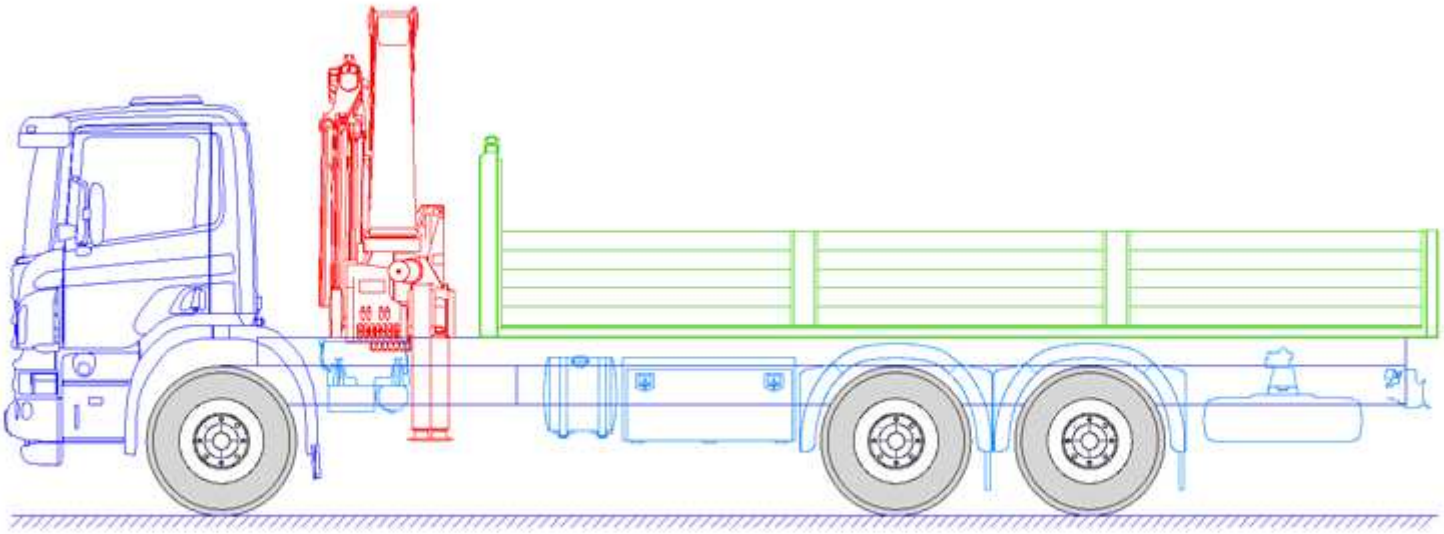

CUSTOMER

Scania West Africa

CONTACT PERSON
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DEALER

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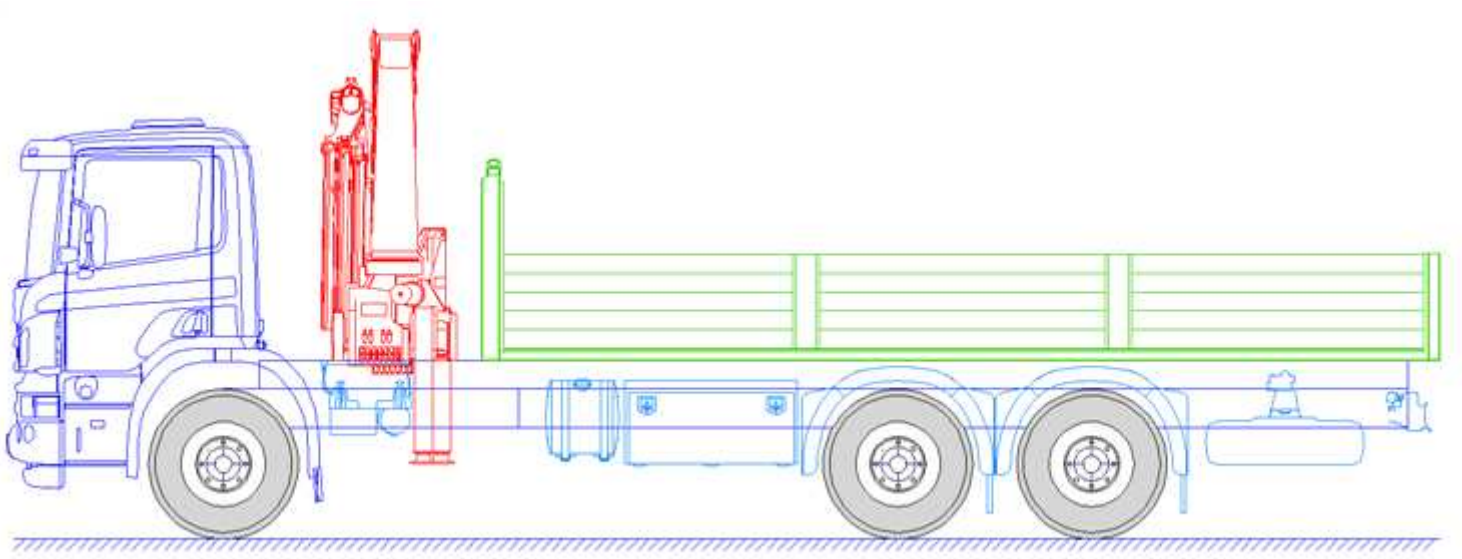
PERSON IN CHARGE

CONTACT PERSON
Michael Butler

+43 6216 7660 85197

PROJECT
19042021-MB
001 Scania West Africa-PK



Index

License:
ATPALFI00002H535

Version:
2017.1.6491.18070

The calculation results are created with the software tool PACWIN.NET. Weights and dimensions are based on the standard chassis equipment or mentioned otherwise. Additional weights due to special equipment must be added to the calculated axle loads.
Before starting with the bodybuilding the chassis has to be weighed, the frame height has to be checked and compared with the result of the calculation. In case of deviations the calculation and position of the equipment has to be corrected.
It is not possible to consider all influences for the stability calculation. It is necessary to carry out required inspections and tests under the relevant laws in the place of registration! The calculation results are additional information only and can not replace such inspections and tests.
The calculation results are non-binding guide values. Changes and variations in production are possible and permissible.
Palfinger does not accept any liability or warranty for the correctness and validity of the calculation results.

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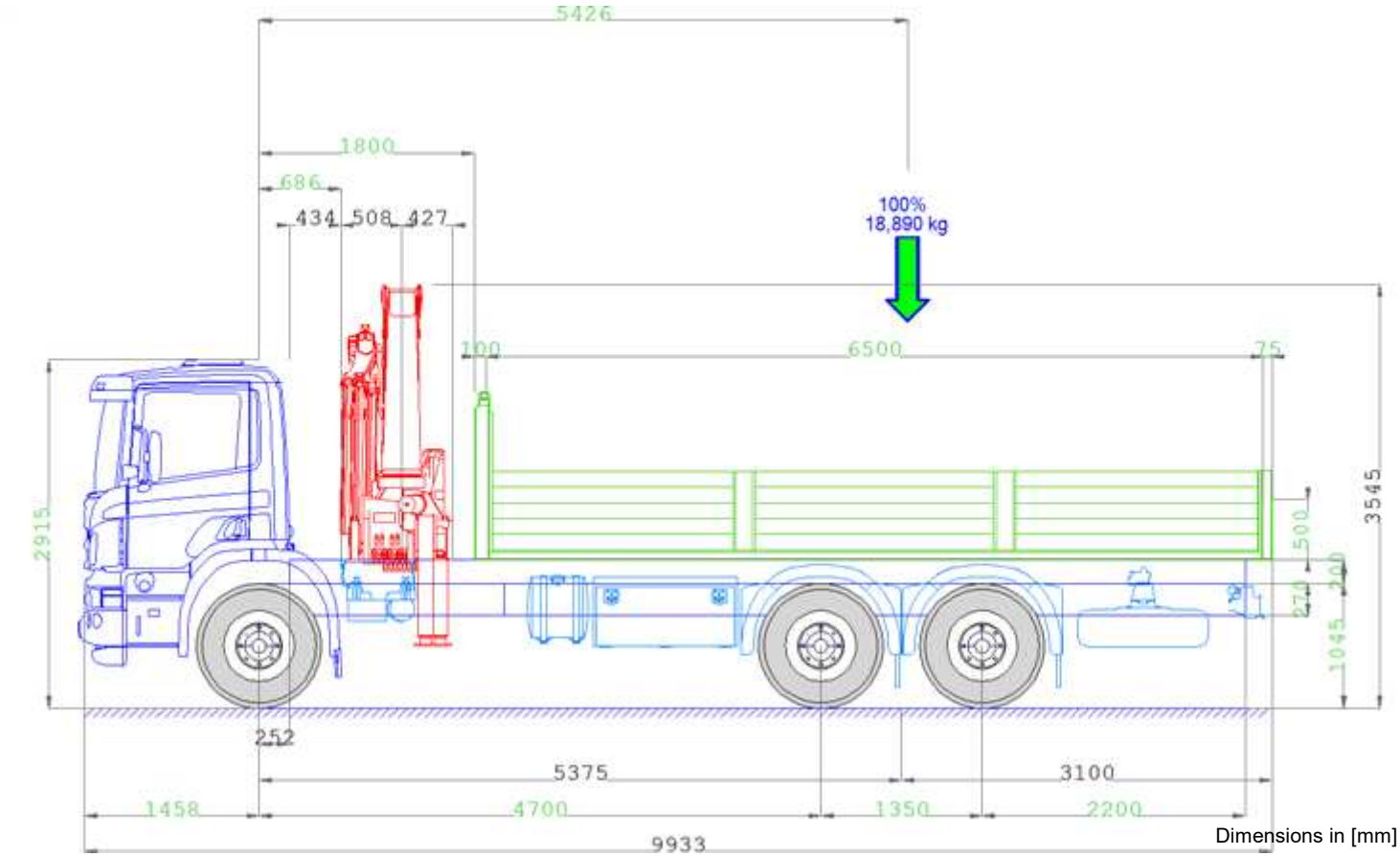
PROJECT INFORMATION AND INDEX

PROJECT DATA

Project Number:	19042021-MB 001 Scania West Africa-PK 23500CR3X
Consignment:	
Installation Type:	Crane / Platform
Carrier:	Scania P 420 CB6X4E SZ 6x4 -
Cab:	CP14L
Wheel Base [mm]:	4,700 + 1,350
Permissible axle load [kg]:	9,000 / 13,000 / 13,000
Load Max [kg]:	34,000
Payload [kg]:	18,890
Crane:	PK23500C (s406-ska) R3X
Additional Stabilizer:	
Container Handling System:	



Dimensions in [mm]

Project Information:

Scania P420 with PK 23500C and 6500mm body

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INSTALLATION DRAWING

PROJECT DATA

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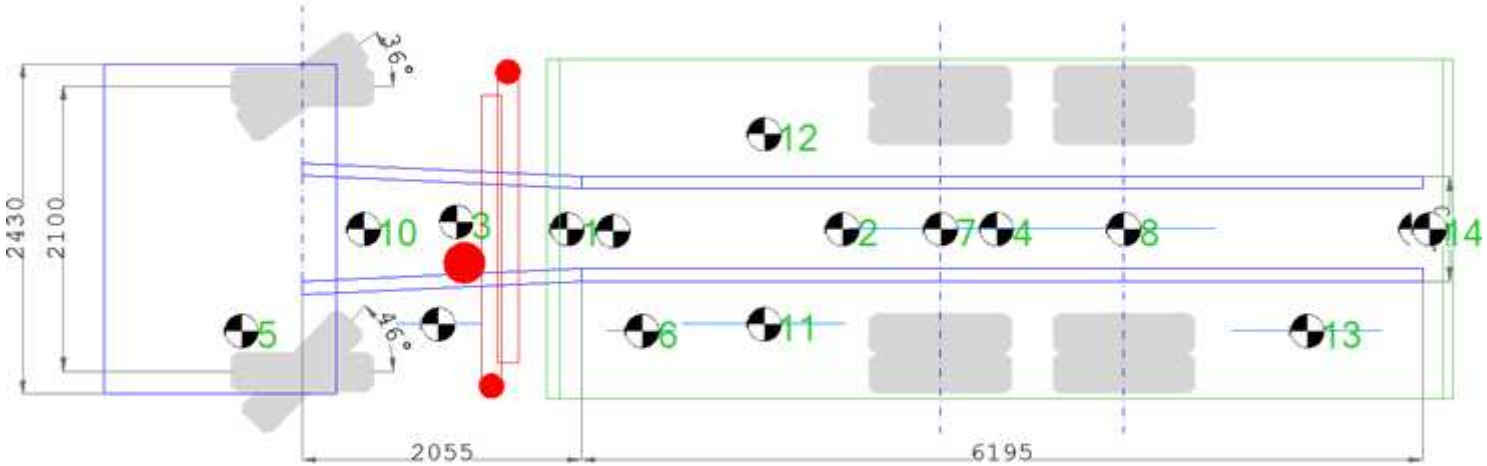

Dimensions in [mm]

TOP VIEW

Legend:

1 Scania P 420 CB6X4E SZ 9,319 kg
2 Subframe 750 kg
3 PK23500C 2,786 kg
4 Africa Dropside 1,300 kg
5 Driver 100 kg
6 Fuel 300 kg
7 Guards 40 kg
8 Guards 40 kg
9 Light Bar 50 kg
10 PTO 50 kg
11 Tool Box 100 kg
12 Tool Box 100 kg
13 Spare 100 kg
14 Tow Hitch 75 kg

Subframe:

Distance mid of front axle to beginning of subframe: 252mm
Length: 7,998mm

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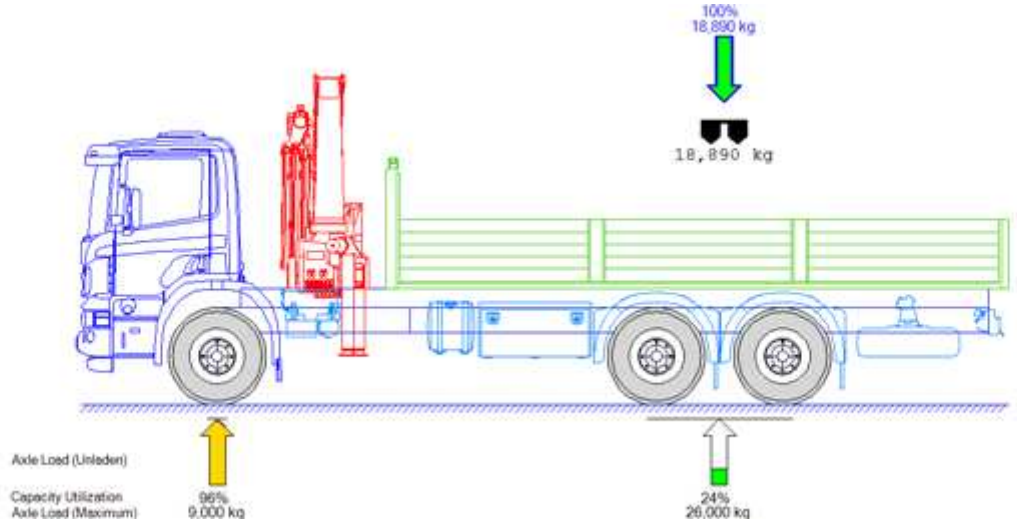

Transport Position Crane

Default	Yes
Boom Direction	Left
Angle main boom [°]	-50
Angle knuckle boom [°]	165
Knuckle boom stroke [mm]	300
Angle FlyJib [°]	
FlyJib stroke [mm]	

Transport Position Hookloader Transp. Stroke [mm]

Result	Weight [kg]	Location [mm] X	Y	Z	Front axle [kg]	Rear Axle [kg]
Axle Load (Unladen)	15,110	2,287	-15	1,150	57% 8,680	6,430
Payload	18,890	5,426	0	1,245	-179	19,069
Payload Loss						
Axle Load (Laden)	34,000	4,031	-6	1,203	25% 8,500	25,500
Axle Load (Maximum)	34,000				26% 9,000	26,000
Recommended COG Payload: 5,284 - 5,568						

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AXLE- & PAYLOAD CALCULATION - GRAPHIC

PROJECT DATA

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Crane:	PK23500C (s406-ska) R3X
Additional Stabilizer:	
Container Handling System:	

Name	Weight [kg]	Location [mm] X	Y	Z	Front axle [kg]	Rear Axle [kg]	Relevance
Scania P 420 CB6X4E SZ	9,319	1,950	0	861	5,938	3,381	*
Subframe	750	3,976	0	1,145	195	555	*
PK23500C - Mounting Parts	0	1,194	0	1,245	0	0	*
PK23500C - Static Parts	1,373	1,293	-151	1,630	1,043	330	*
PK23500C - Dynamic Parts	1,413	978	256	2,428	1,156	257	*
Africa Dropside	1,300	5,110	0	1,345	64	1,236	*
Batt Box	0	1,000	-700	1,000	0	0	*
Driver	100	-450	-750	1,850	108	-8	A
Fuel	300	2,500	-750	1,100	160	140	A
Guards	40	4,700	0	1,200	5	35	A
Guards	40	6,050	0	1,200	-5	45	A
Light Bar	50	8,200	0	800	-26	76	A
PTO	50	450	0	500	46	4	*
Tool Box	100	3,400	-700	1,100	37	63	A
Tool Box	100	3,400	700	1,100	37	63	A
Spare	100	7,400	-750	1,200	-38	138	A
Tow Hitch	75	8,300	0	850	-41	116	A
Axle Load (Unladen)	15,110	2,287	-15	1,150	57% 8,680	6,430	
Payload	18,890	5,426	0	1,245	-179	19,069	
Payload Loss							
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Axle Load (Maximum)	34,000				26% 9,000	26,000	
Recommended COG Payload: 5,284 - 5,568							

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AXLE- & PAYLOAD CALCULATION - DETAIL

PROJECT DATA

Project Number:	19042021-MB 001 Scania West Africa-PK 23500CR3X
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Additional Stabilizer:	
Container Handling System:	

LOAD DISTRIBUTION CHART

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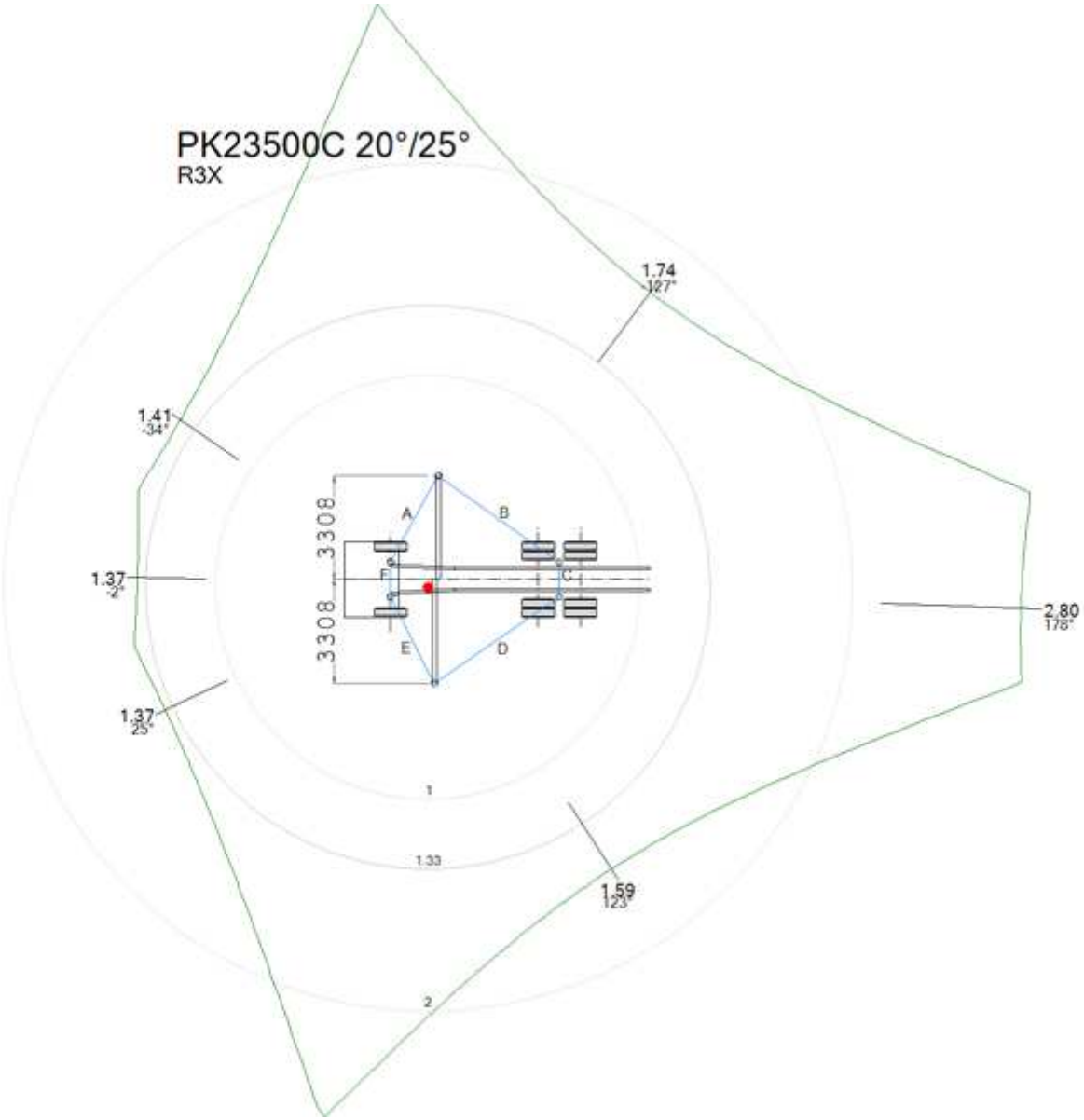
Load Max [kg]:	34,000
Payload [kg]:	18,890
Crane:	PK23500C (s406-ska) R3X
Additional Stabilizer:	
Container Handling System:	

Full payload: 18,890 [kg]
Recommended COG Payload: 3,384 - 3,500 [mm]

Min. Front Axle Load
Percentage of total weight: 25%

Legend

- Full payload
- Payload reduced due to permissible front axle load
- Payload reduced due to permissible rear axle load
- Payload reduction due to min. front axle load for manoeuvrability



Result

A: 1.41	D: 1.59
B: 1.74	E: 1.37
C: 2.80	F: 1.37

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STABILITY CALCULATION CRANE - GRAPHIC

PROJECT DATA

Project Number:	19042021-MB 001 Scania West Africa-PK 23500CR3X
Consignment:	
Installation Type:	Crane / Platform
Carrier:	Scania P 420 CB6X4E SZ 6x4 -
Cab:	CP14L
Wheel Base [mm]:	4,700 + 1,350
Permissible axle load [kg]:	9,000 / 13,000 / 13,000
Load Max [kg]:	34,000
Payload [kg]:	18,890
Crane:	PK23500C (s406-ska) R3X
Additional Stabilizer:	
Container Handling System:	

TL	MS [mt]	MT [mt]	D-TR [mm]	D-LC [mm]	W-CI [kg]	D-CWI [mm]	W-CO [kg]	D-CWO [mm]	F
A	29.87	21.19	2,400	10,766	1,854	1,329	932	4,568	1.41
B	30.03	17.23	2,156	9,142	2,086	2,593	700	4,079	1.74
C	41.37	14.79	2,939	8,042	2,176	3,591	610	3,516	2.80
D	28.96	18.26	2,126	9,596	2,086	2,246	700	4,534	1.59
E	29.82	21.81	2,422	11,023	1,854	1,167	932	4,802	1.37
F	29.92	21.83	2,436	11,029	1,854	1,135	932	4,809	1.37

Weight Carrier [kg] = 11,419

Legend

TL..... Tipping Line
MS..... Stability moment
MT..... Tipping moment
D-TR..... distance cog. carrier to tipping line
D-LC..... Distance load to tipping line
W-CI..... Crane mass inside tipping line
D-CWI..... Distance cog. crane mass inside to tipping line
W-CO..... Crane mass outside tipping line
D-CWO... Distance cog. crane mass outside to tipping line
F..... Stab. Factor

	Crane Position Lifting capacity
Angle main boom [°]	20
Angle knuckle boom [°]	25
Knuckle boom stroke [mm]	7,862
Angle FlyJib [°]	-
FlyJib stroke [mm]	-
Manual Extensions	0
Lifting capacity [kg]	1,573
Lifting capacity outreach [mm]	12,220

Stabilizer	Stabilizer Spread [mm]		Mounting Point [mm]		
	Left	Right	X	Y	Z
R3X.0	3,308	3,308	1,455	0	1,245

Tipping Line	Width	Distance from front axle
Front Axle	1,100	0
Rear Axle	1,100	5,375

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STABILITY CALCULATION CRANE - DETAIL

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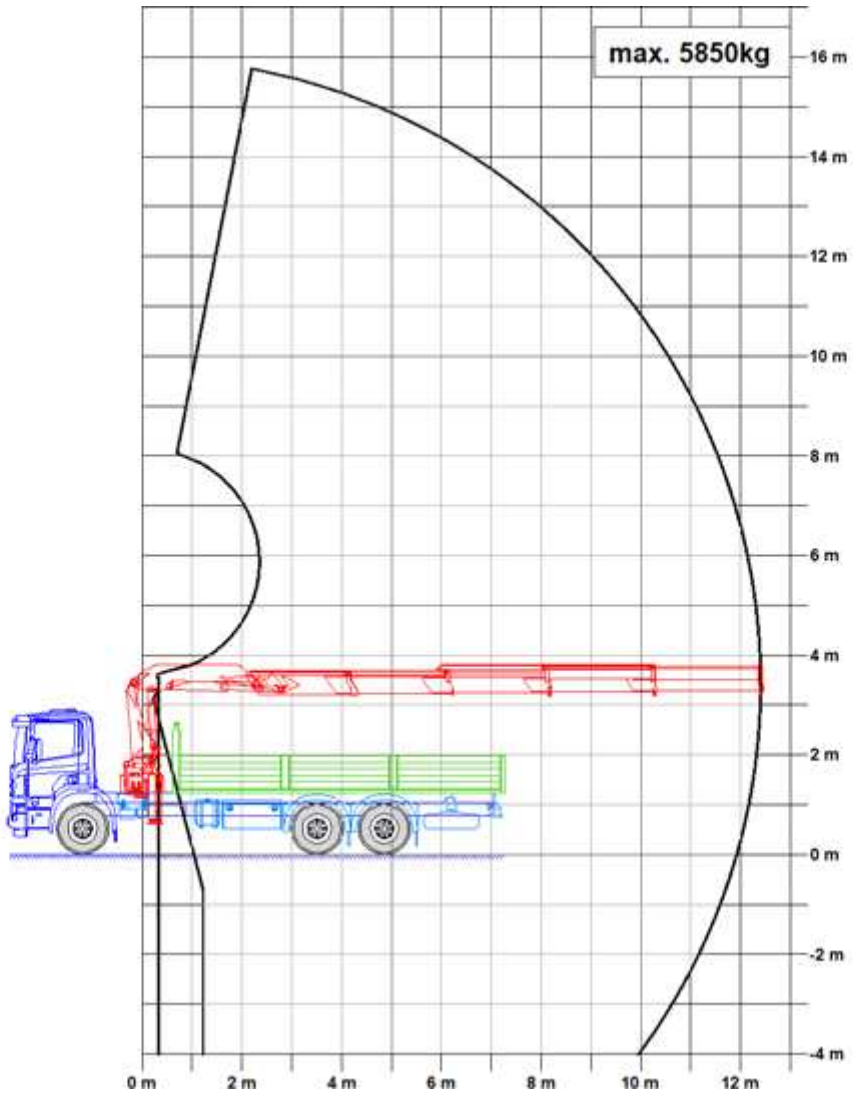
Additional Stabilizer:	
Container Handling System:	



Crane Configuration

Angle main boom [°]	0
Angle knuckle boom [°]	0
Knuckle boom stroke [mm]	7,862
Angle FlyJib [°]	
FlyJib stroke [mm]	
Manual Extensions	0
Mounting Height [mm]	1,245

Crane performance

Outreach [mm]	12,412
Lifting Height [mm]	3,243
Lifting Capacity [kg]	0
Working Pressure [%]	100

PALFINGER

LIFTING CAPACITY ANALYSIS CRANE

PROJECT DATA

Project Number:	19042021-MB 001 Scania West Africa-PK 23500CR3X
Consignment:	
Installation Type:	Crane / Platform
Carrier:	Scania P 420 CB6X4E SZ 6x4 -
Cab:	CP14L
Wheel Base [mm]:	4,700 + 1,350
Permissible axle load [kg]:	9,000 / 13,000 / 13,000
Load Max [kg]:	34,000
Payload [kg]:	18,890
Crane:	PK23500C (s406-ska) R3X
Additional Stabilizer:	
Container Handling System:	

Offer no.	P410 B6X4 for Flatbed and crane PALFINGER	Customer	QGMI 2021
Issued by	François LECHAT	Date	25/05/2021
Remark			

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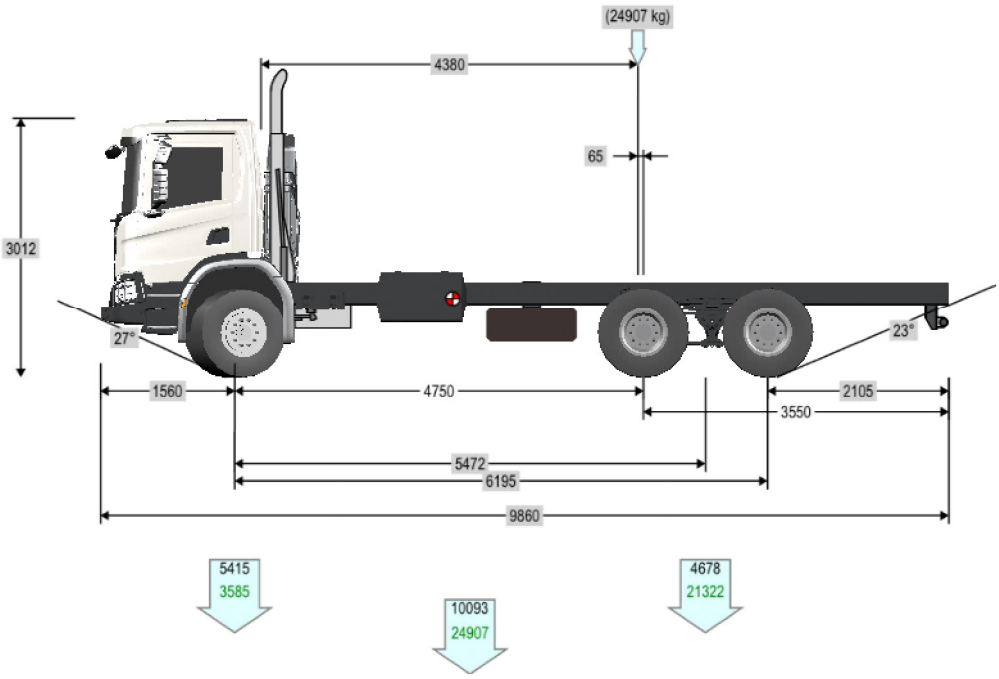

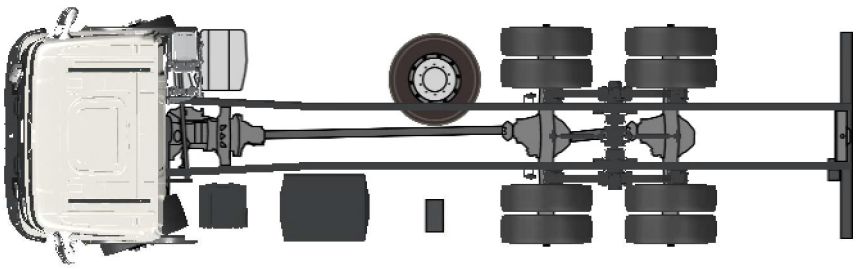

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Transport task

Fuel properties	Diesel, 350 ppm sulphur (840 kg/m³)

Vehicle specification

Chassis type	B6X4HZ
Engine	DC13 140, 410 hp (Euro 3)
Gearbox	GRSO905
Shift program	OptiCruise
Axle gear	RBP835
Axle gear ratio	4,72
Cab type	CP14L
Bumper	Protrusion 150, without FUP
Roof air deflector	Without
Side air deflector	Without
Axle distance	4750
Max. weight technical Front	9000 (4X28 AM600T)
Max. weight technical Rear	26000 (13000+13000) (2X41 + 2X48 BT300B AD500TZP)
Differential lock	With
Rear overhang	3550
Fuel tanks	
Right side	Without
Left side	300G
Location	High
Exhaust outlet	Vert. exhaust
Battery	Left side
Side underrun protection	Without
Frame edge protection	Without
Front	
Tyre 1	385/65R22.5 Construction All Goodyear, 22.5x11.75 (Steel)
Rear	
Tyre 1	315/80R22.5 Construction Drive Goodyear, 22.5x9.00 (Steel)
Tyre 2	315/80R22.5 Construction Drive Goodyear, 22.5x9.00 (Steel)

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Underrun protection	Round profile

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Main configuration

Engine	DC13 140
Gearbox	GRSO905
Axle gear	RBP835
Axle gear ratio	4,72
Drive wheel dimension	315/80R22.5

Max. performance

Route	
Max. hp per tonne	
Lowest reverse speed [km/h]	1,7
Gradeability [%]	
Startability Acc. to EC 1230/2012 [%]	
Startability [%]	

Cruising speed performance

Gross train weight [kg]
Cruising speed [km/h]
Average speed [km/h]
Time [min]
Gear engaged
Engine revs [r/min]
Gradeability [%]
Acc. 0 to cruising speed [s]

Fuel consumption

Fuel cons. [l/100 km]	
Fuel cons. (avg.) [l/100 km]	*
AdBlue cons. [l/100 km]	*
Total fuel cons. (avg.) [l/100 km]	*
Total AdBlue cons. (avg.) [l/100 km]	*
Average speed [km/h]	*

Electric Range

Range (km)

Emission

Total CO2 (avg.) [g/(ton*km)]	*

Height [mm]

Cab:	
Roof	3012 (2955)
Boarding step	635 (579)
Frame:	
Front axle	1128 (1071)
Rear axle	1113 (1050)

Ground clearance [mm]

Front axle	387 (367)
Rear axle (driven)	326 (294)
Bumper lowest part	478 (422)
Fuel tanks Left side	617 (558)
Spare wheel carrier	485 (425)
Side skirt	*

Angles [°]

front incidence angle (approach angle)	27 (24)
rear incidence angle (departure angle)	23 (21)

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Weights [kg]	**Front** Truck	**Rear**	**Total**
Chassis weight*	5282	4180	9462
Extra weight (Chassis)	83	413	496
Equipment	50	85	135
Weight unloaded	5415	4678	10093
Payload	0	0	0
Weight loaded	5415	4678	10093
Max. weight	9000	26000	35000
Weight reserve	3585	21322	24907

* Chassis weight includes full fuel tanks and driver weight.

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Inner radius	8089 mm
Kerb, radius	11915 mm
Wall, radius	12539 mm