

PCC 57.002 | PCC 71.002 | PCC 115.002

THE SOLUTION FOR PARTICULAR USABILITIES

LIFETIME EXCELLENCE



AREAS OF APPLICATION FOR THE PCC PALFINGER CRAWLER CRANE

The PALFINGER crawler crane is an all-rounder for a variety of different areas of operation.

The special feature of this crane is on one hand its exceptional cross-country mobility – the crawler chassis, its powerful drive and its extra ground clearance allows the use on difficult terrain.

On the other hand, this crawler crane stands out with its compact dimensions and its areas of operation under limited space conditions. This facilitates working in urban spaces or in industrial environment like for example in production halls.

1 CONSTRUCTION SITES

On construction sites, the PCC crawler crane impresses with long reaches and individual positioning options. Its flexible crane geometry makes difficult lifting operations possible.

2 URBAN APPLICATION AREAS

Its compact dimensions make working under limited space conditions possible.

3 OFF-ROAD APPLICATIONS

Job sites in terrain that is difficult to access – the areas of application for the crawler crane begin where accessibility with a truck ends.

4 INDUSTRIAL- AND INDOOR APPLICATIONS

The reverse linkage system, its minimal working width and its high lifting force make the crawler crane the specialist for the use in the industry and indoor.



1 CONSTRUCTION



3 OFF-ROAD APPLICATIONS



N SITES

2

URBAN APPLICATIONS AREAS

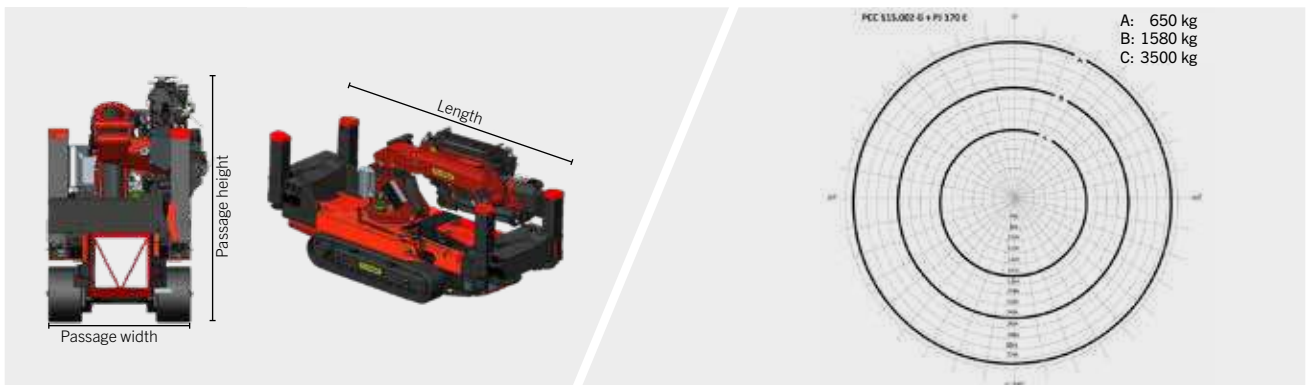


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INDUSTRIAL- AND INDOOR APPLICATIONS

THE STRENGTHS OF THE PALFINGER CRAWLER CRANE

The PALFINGER Crawler Crane is a pioneer product for difficult applications. It can crawl into and out of a container all by itself. The crane module without the crawler can move by using the stabilizers and therefore it is perfectly suited in constricted city centres (e.g. for low passages and entrances). The crane and the crawler can also be controlled and transported separately.



Compact dimensions

- small passage width (1.9–2.1 m)
- low passage height (with crawler 2.8–3.66 m / without crawler 2.1–2.36 m)
- short length (5.9–7.45 m)

Possible crane applications

- 360° stability at 100% lifting capacity
- winch concept adapted to the crane size (e.g. PK 115.002 with 3.5-metric-ton winch and from 1 to 4 falls)
- load can also be moved with the boom system in addition to the cable winch (telescoping out and in, lifting and lowering)
- “Pick and carry” mode possible



Good all-terrain mobility

- good ground clearance (200–275 mm)
- climbing capability up to 30%, optionally 60%
- ramp angle at front and rear 17°

Optimum indoor application

- thanks to separate E-power pack
- thanks to screw-on floor protectors (plastic plates)

Example of a shifting operation in a longitudinal direction:

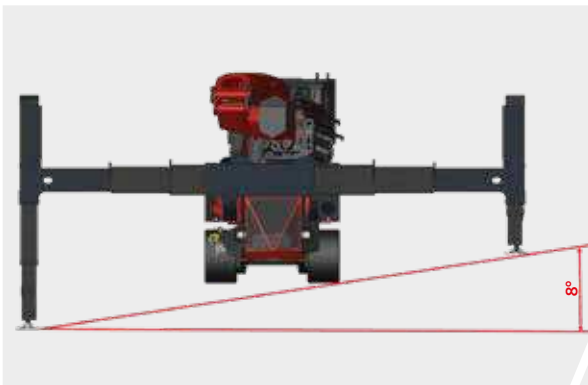


What is shifting?

- shifting means to move the unit by solely using the stabilizer outriggers
- it enables the crane to pass through openings without its crawler chassis when headroom is minimal or enables the crane unit to be loaded into a container
- shifting is possible with the crawler chassis coupled and decoupled

High degree of manoeuvrability

- by turning the crawler chassis on the stand
- by longitudinal and lateral shifting / with and without crawler
- by excellent precision control ability

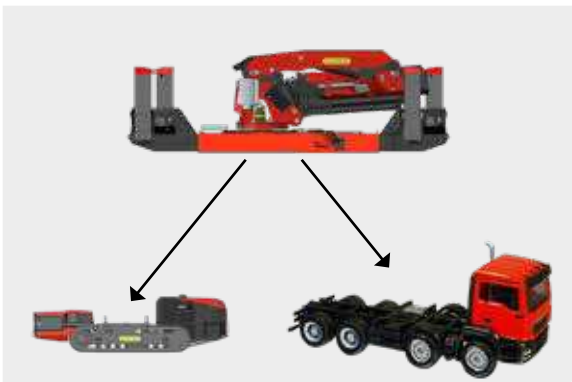


Heavy-duty all-terrain stabilizers

- slope gradients of up to 8° can be compensated for (levelled out) while maintaining 100% lifting capacity
- crane can be loaded onto a truck using its own stabilizers
- optimum lifting capacity using continuous monitored lateral and longitudinal outriggers

Can be separated for transport and crane use

- crane module can be separated from crawler using its own stabilizers
- weight of crane module \approx 25 t (PCC 115002 with jib and cable winch)
- weight of crawler module \approx 10 t (PCC 115002 with full tanks)
- no special permits required for road transport
- crane module can also be used as a 'stand-alone' piece of equipment
- the separability is electronically monitored but can also be blocked by means of a key-operated switch



Crane module can be used on the crawler and on a truck

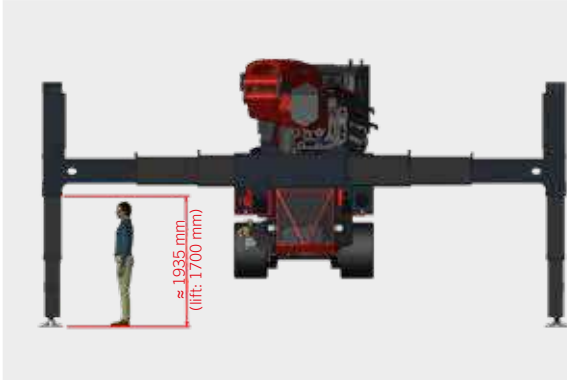
- the transport truck can also be used as the crane carrier vehicle
- greater utilisation certainty thanks to dual usability on the crawler and on a truck

Turnkey unit

- everything from a single source
- reduction in communication interfaces because the complete unit is supplied directly ex-works
- training and handover in the factory

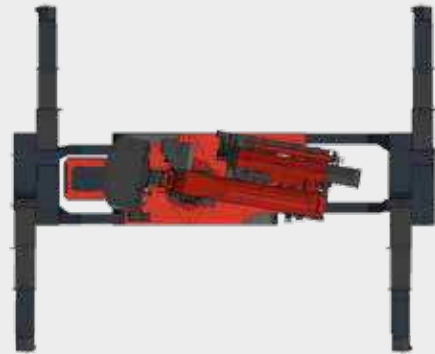
HIGHLIGHTS

CRANE MODULE



Telescopic stabilizers

- convenient control of the stabilizers by means of radio remote control
- simple stabilization of the unit through single-lever operation – unit is automatically stabilised and levelled out



'H'-shaped stabilization frame

- 'H'-shaped stabilization frame for optimum stabilizer positioning and lifting capacity in confined spaces



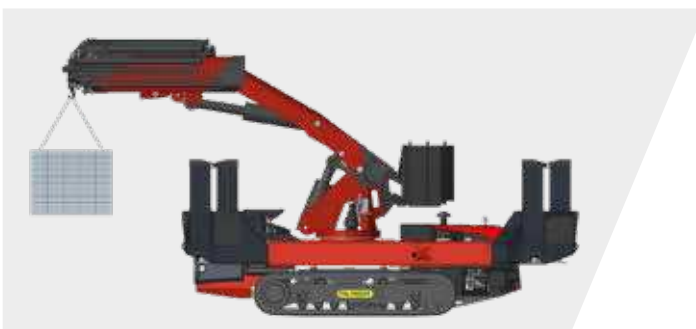
Optional removable counterweight

- enables larger loads to be lifted during operation without stabilization or where stabilizer extension is reduced
- counterweight can be incorporated and removed independently without an external lifting device



PALCOM P7 radio remote control

- safe and simple operation thanks to large and easy-to-read colour display with intuitive menu
- can be used for extended periods thanks to the battery's long service life (up to 12 hours)
- long battery service life because of charging station with refresh function



Pick + Carry

- greater flexibility in operation through movement with lifted loads



Full geometry control (including the extensions)

- best utilisation of the lifting capacity on the fly jib thanks to continuous geometry measurement on the boom system (DPSC – Dual Power System Continuous)
- optimum utilisation of the stability thanks to calculation of all centres of gravity



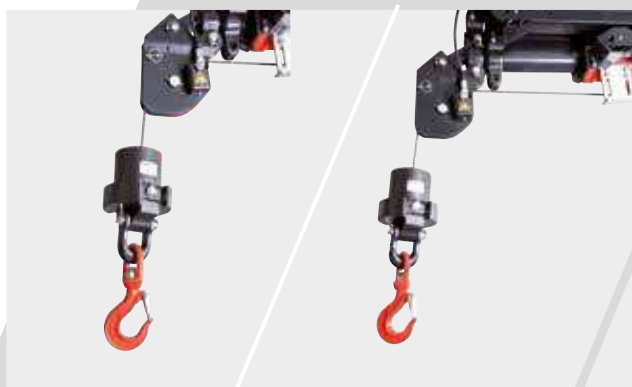
P-Fold

- P-Fold is a PALFINGER assistance system
- it makes folding and unfolding an easy job for the operator



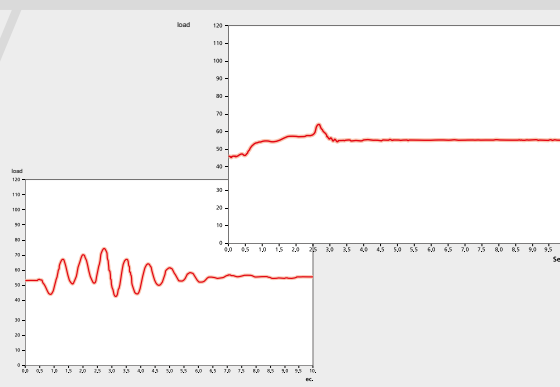
RTC – Rope Tension Control

- the new RTC system is an automatic rope tensioning device that helps to fold and unfold the crane
- this innovation will significantly shorten the set-up time



SRC – Synchronised Rope Control

- the SRC system maintains a constant distance between the pulley head and the hook block
- this not only ensures a high level of comfort for the user, but also makes the operation much more efficient



AOS – Active Oscillation Suppression

- eliminates oscillations that occur during crane operation
- 'Rebound' caused by rapid deceleration or a change of load is avoided
- the result is a significant increase in safety in crane operation for operator, loads and surrounding areas

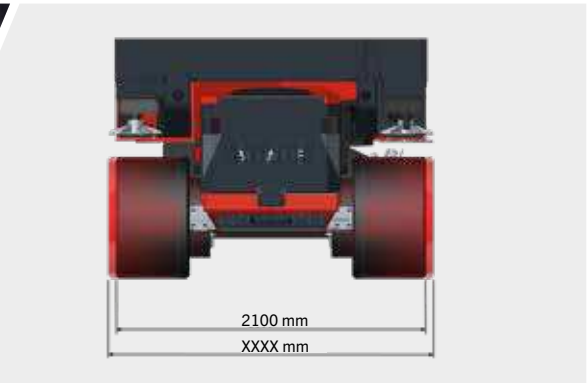
HIGHLIGHTS

CRAWLER MODULE



Robust undercarriage design

- durability thanks to robust design and the use of high-quality undercarriage components



Wider track

- optional, fixed wider track for greater lateral stability when moving on a slope and operating the crane without stabilizers



3-grouser steel base plates

- minimal wear thanks to rolled high-performance steel profiles with optimum surface hardness
- further designs available on request



Non-marking PU plates

- optional non-marking PU floor protectors for driving on sensitive floors/surfaces
- available in a screw-on design and as coated steel floor plates



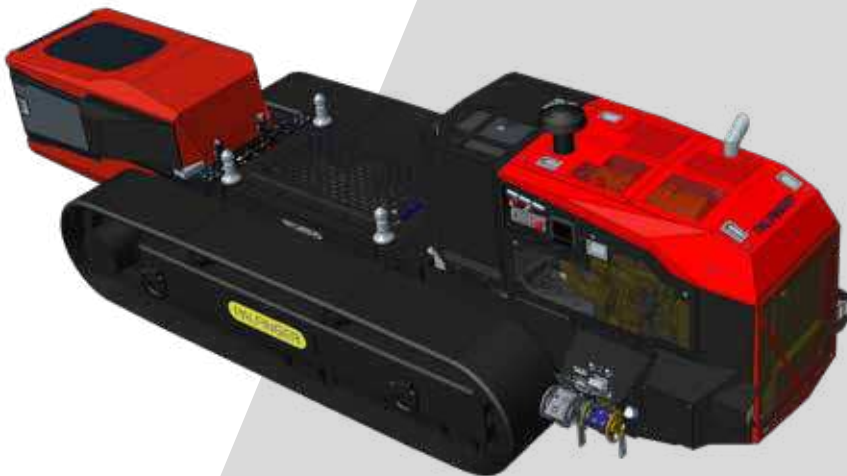
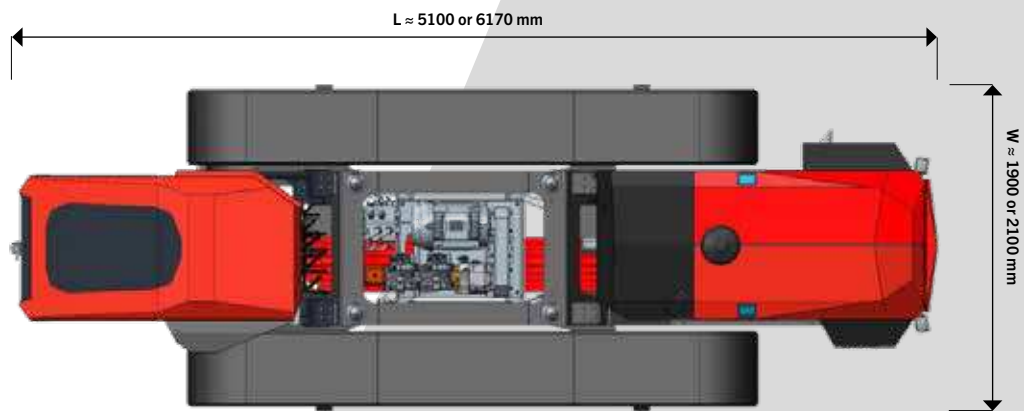
Diesel engines

- diesel engines: 74kW / 110kW with Euro IV and Tier4 final
- diesel particulate filter optionally available



Performance-controlled hydraulic pumps and speed-controlled hydraulic motors for traction drive

- high-precision control ability and sufficient power reserves for every application



Separate remote control

- separate remote control for different tasks with the crawler module when the crane module is decoupled



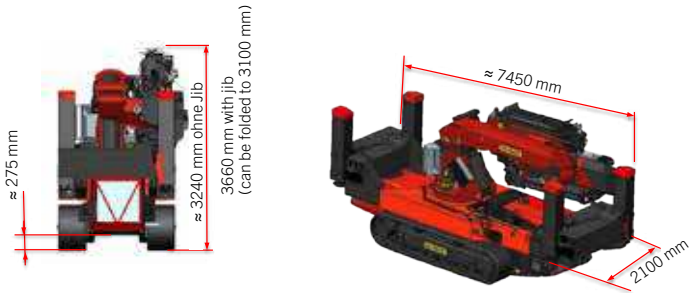
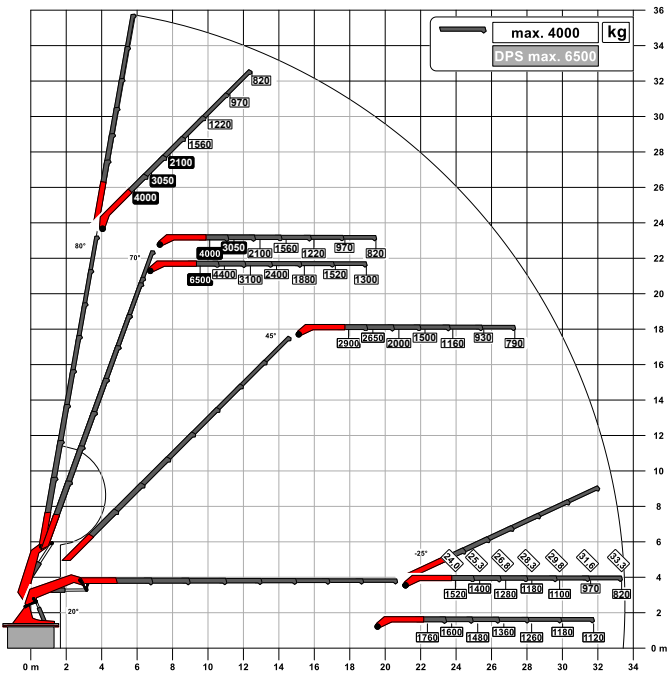
Safety

- crane and crawler drive are designed for safe operation with a workman basket in accordance with EN280 and EN13849 pld

PRODUCT OVERVIEW & LIFTING CAPACITIES

PCC 115.002

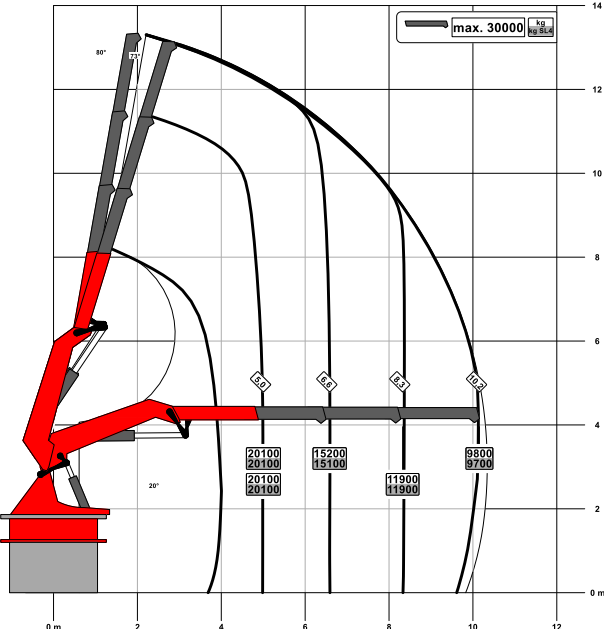
G PCJ170 E DPS-C



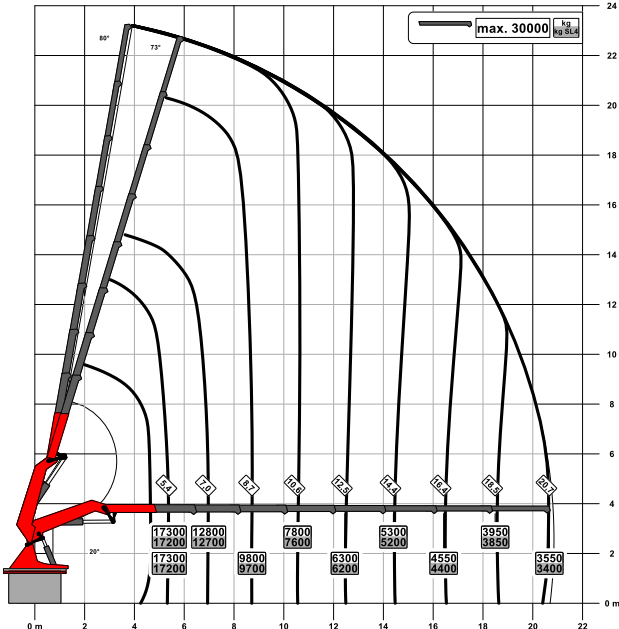
Technical specifications EN 12999 HC1 HD5/S1

Max. lifting torque	103.9 mt / 1019.4 kNm
Max. lifting power	30,000 kg / 294.3 kN
Max. reach of crane	23.1 m
Slewing angle	continuous
Slewing torque (2 gears)	9.0 mt / 88.3 kNm
Stabilization width (standard/max.)	7.6 m x 9 m
Max. total width	2.1 m
Total weight (standard)	≈ 33 t

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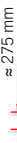


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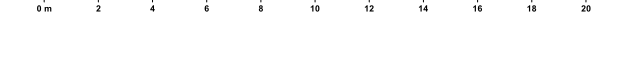


Technical specifications

EN 12999 HC1 HD5/S1

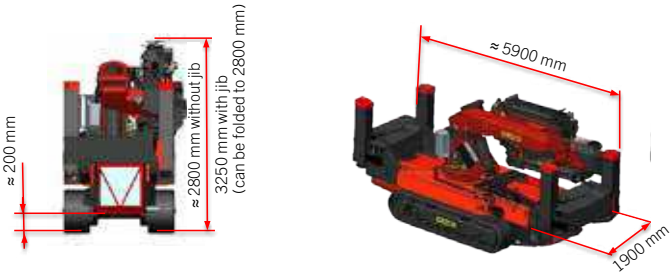
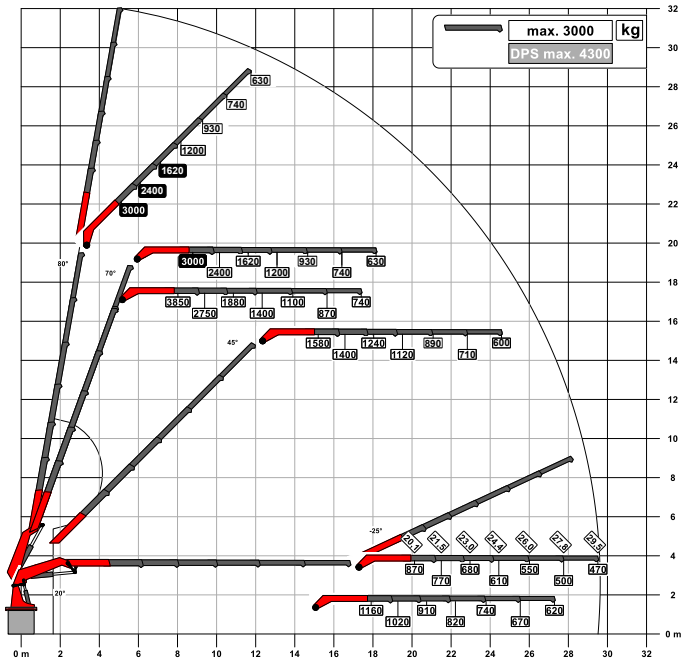
Max. lifting torque	67.8 mt / 664.9 kNm
Max. lifting power	22000 kg / 215.8 kN
Max. reach of crane	21.4 m
Slewing angle	continuous
Slewing torque (2 gears)	7.0 m / 68.7 kNm
Stabilization width (standard/max.)	7.6 m x 9 m
Max. total width	2.1 m
Total weight (standard)	≈ 31.5 t (G extension)

F



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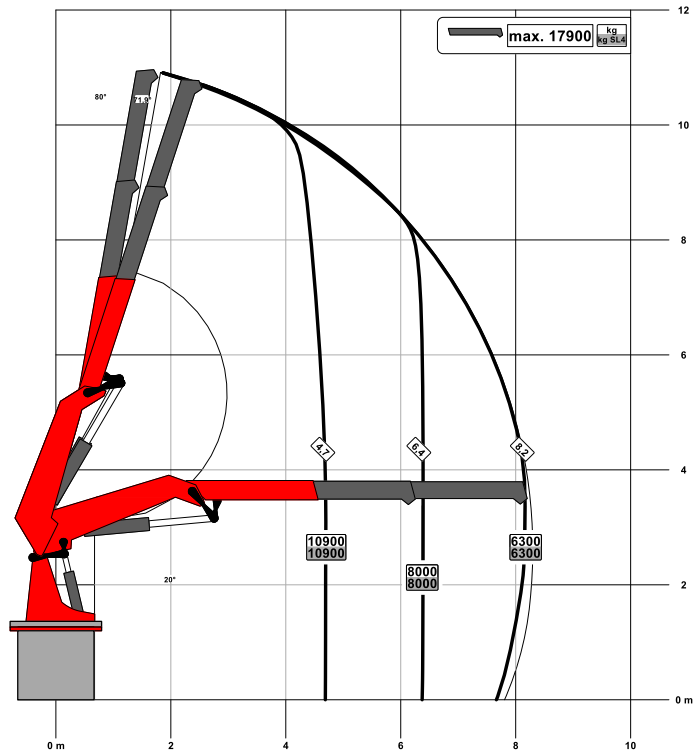
E PCJ125 E DPS-C



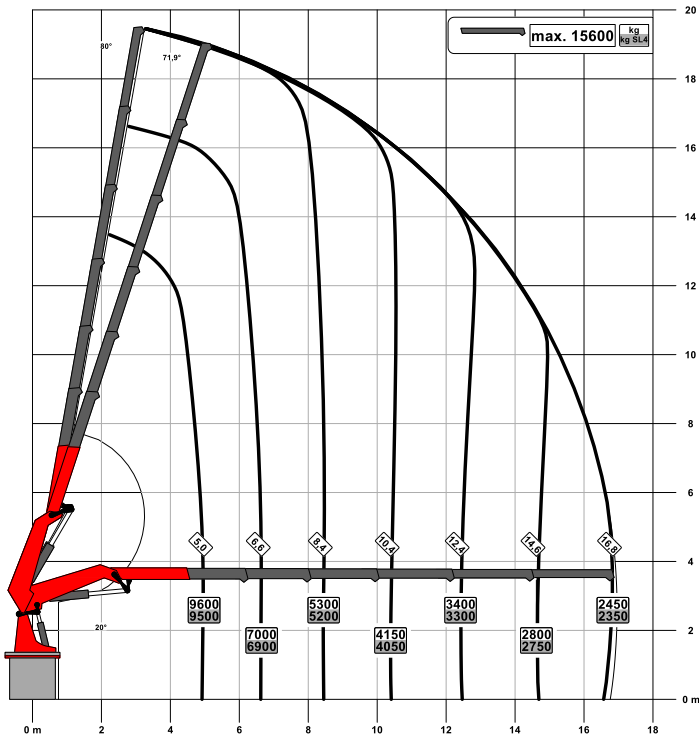
Technical specifications
EN 12999 HC1 HD5/S1

Max. lifting torque	52.6 mt / 516.1 kNm
Max. lifting power	18,200 kg / 178.5 kNm
Max. reach of crane	21.5 m
Slewing angle	continuous
Slewing torque (2 gears)	5.5 mt / 54.0 kNm
Stabilization width (standard/max.)	6.9 m x 7.3 m
Max. total width	1.9 m
Total weight (standard)	≈ 20 t

A



E



ADDITIONAL EQUIPMENT

PALFINGER CRAWLER CRANE



Rams

- various types of rams – e.g. impact rams or vibration rams – can be fitted to suitably prepared crane models to ram foundations into position



Workman baskets

- to extend the possible applications, rigid and swivelling ($\pm 90^\circ$) workman baskets can also be used on the crane



Bulk material grab

- the robust bulk material grab is ideal for transporting bulk materials such as ballast, rubble and excavated earth and can also be used for light-duty digging



Timber grabs

- a timber grab is ideal for handling long goods



Pipe manipulator

- for positioning pipes and masts



Vacuum lifter

- ideal for lifting glass plates



THE COMPANY

PALFINGER

Established in 1932 and headquartered in Bergheim (Austria) the company has for many years been among the leading international manufacturers of innovative, reliable and efficient hydraulic lifting systems in the line of commercial vehicles and in the maritime field.

PALFINGER is the global market leader for loader cranes, timber and recycling cranes, marine cranes, wind cranes, hooklifts and railway systems. The acquisition of the globally operating Harding Group in 2016 also made PALFINGER the world's market leader in maritime lifesaving equipment. Moreover, the Company is a leading specialist in tail lifts and truck mounted forklifts. PALFINGER is committed to providing the best service in the industry.

PALFINGER has manufacturing and assembly sites in Europe, in CIS, in North and South America and Asia as well as over 5,000 sales and service centres located in over 130 countries across five continents.

With its 10,212 employees, PALFINGER has generated total sales of approx. EUR 1,471.1 million in 2017.

The three strategic pillars – innovation, internationalization and flexibility – have facilitated the global, profitable growth of the PALFINGER Group in previous years and will be consistently pursued in the future as well.

To allow for a prioritization of the challenges and opportunities of digital transformation, this time-tested strategy has been supplemented by a fourth pillar: PALFINGER 21st stands for new core competences, new approaches, new products, services and business models in the digital age.

PALFINGER's employees and the shared values of respect, learning and entrepreneurship are central elements in the implementation of this vision. PALFINGER will put its customers at the heart of all endeavours, even more so than in the past. Together with them, PALFINGER will continue to identify new requirements and develop efficient solutions.

TOGETHER WE ARE SHAPING THE FUTURE OF OUR CUSTOMERS' LIFTING SOLUTIONS.

PALFINGER CRAWLER CRANE SERVICE & TRAINING

We assist you from the very beginning — through the life of the product and beyond

At PALFINGER Crawler Crane, service and customer focus are a top priority. With our service support points around the world, we are always close by. Rapid, professional and straightforward support for technical questions is routine for us. We think and act in a way that is customer-oriented, flexible and efficient. Our highly qualified technicians with many years of experience handle every service call with motivation and enthusiasm and make dealing with your concerns their own personal mission.

The PALFINGER Crawler Crane service team is with you from the beginning. At the handover in our factory, you receive comprehensive initial training from our Training department. Our technicians are happy to assist you with your first jobs on site, so that you can gain confidence and become independent in handling the equipment as well as achieve your desired goals as efficiently as possible.

All repairs, services, annual inspections and training courses are carried out and coordinated by our Service and Training team.

training.railway@palfinger.com
railway-service@palfinger.com



KP-PCC57/71/115+EN

Cranes shown in the leaflet are partially optional equipped and do not always correspond to the standard version. Country-specific regulations must be observed. Dimensions may vary. Subject to technical changes, errors and translation mistakes.