

PALFINGER

LIFETIME EXCELLENCE

**STRONG ARGUMENTS. INNOVATIVE
PALFINGER LOADER CRANE TECHNOLOGY
FOR YOUR BENEFIT.**

**Paltronic
150**

controlled

KTL

protected

RRC

Radio Remote Control

operated

AOS

Active Oscillation Suppression

inside

HPSC

High Performance Stability Control

monitored

DPS^{plus}

Dual Power System

activated



PALFINGER PAYS OFF



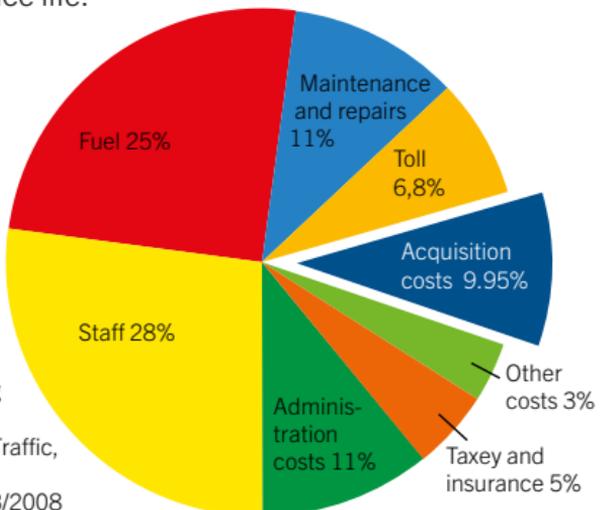
PALFINGER TRUCK-MOUNTED CRANE BEST PRICE DEAL

There are two sides to everything in life. The only consideration when initially acquiring a new machine is the purchase cost. Have you ever thought about what you can save with your new PALFINGER crane? We'll show you how!

The quality benefits and innovations of PALFINGER truck-mounted cranes conceal the potential for enormous cost savings and a large number of additional lucrative business opportunities for today's successful operator.

An approach that encompasses the whole transaction - from acquisition costs, utilization costs, maintenance and potential pay-loads to resale value - clearly illustrates the following fact: "A PALFINGER product is easily the best value acquisition in relation to its service life!"

Cost structure related to acquisition of the whole commercial vehicle. Source: Bundesverband Güterkraftverkehr Logistik und Entsorgung (BGL) e.V. [National Association for Freight Traffic, Logistics and Waste Management] Status 03/2008

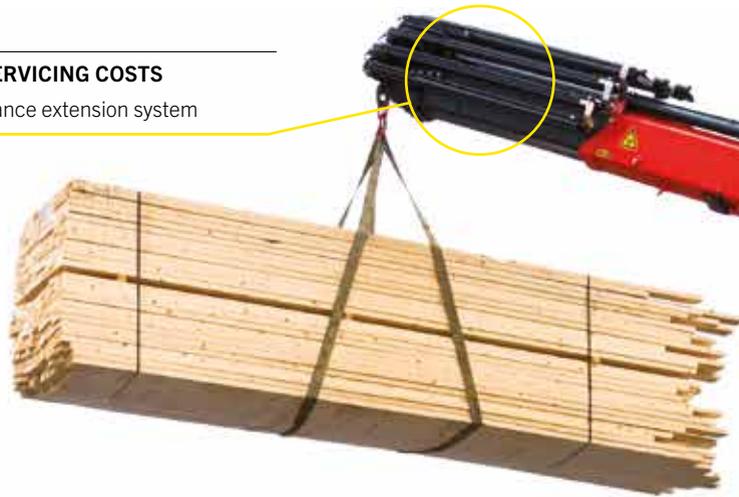


PALFINGER HIGH PERFORMANCE THE WORLD'S MOST PROFITABLE TRUCK-MOUNTED CRANES



SAVE ON SERVICING COSTS

low maintenance extension system



MAXIMUM EQUIPMENT AVAILABILITY

due to best possible service and spare parts coverage



FEWER TRIPS

necessary due to higher payload thanks to crane's lower dead weight





HIGH VALUE RETENTION

thanks to longterm surface protection due to KTL cathodic dip painting and perfect finish



FASTER OPERATING CYCLES

due to AOS patented active oscillation suppression system



REDUCED EXPENDITURE FOR MAINTENANCE AND REPAIR



PALFINGER cranes are designed in every detail for ease of servicing and maintenance. For example the low maintenance extension boom system significantly reduces the usual maintenance expenditure. No further servicing work is required after one-off initial lubrication using a special food grade grease.

Calculate for yourself!

Time-savings of

_____ hours per month

x 12 month

x _____  per hour

= _____ 

**Saving due to low maintenance extension boom system
+ Saving of costs for lubricant**



MAXIMUM RESALE VALUE



PALFINGER products achieve by far the highest resale values due to their

- high product quality (KTL cathodic dip painting for long-term surface protection; design and finish)

According to a European used machinery list, on average PALFINGER truck-mounted cranes achieve approximately 10 % higher resale values on the used machinery market after 10 years than competitor products. That converts to around 100 Euros of extra income per meter tonne.

Calculate for yourself!

_____ meter tonnes of your truck-mounted crane

x 100,- Euro

or

x _____ your currency - equal 100 Euro

= _____

of additional income achieved on resale



OVERVIEW

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DESIGN AND LOOK DUE TO



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POWER LINK

DOUBLE LINKAGE SYSTEM



PRODUCT FEATURES

The linkage system is a special connection between the knuckle boom and main boom which increases the lifting power of the crane in the most important boom positions.

The PALFINGER POWER LINK system is a double linkage system with a linkage on the knuckle boom and a linkage between the main boom and crane column.

HOW IT WORKS

On a crane without POWER LINK the distance between the bolts and cylinder pivot point changes during the motion sequence.

Through this change, the crane loses up to 70% of its power.

With POWER LINK this distance is always constant. Therefore constant lifting moment is achieved independent of the boom position.

MORE POWER ON THE HOOK

MORE EFFICIENCY IN USE

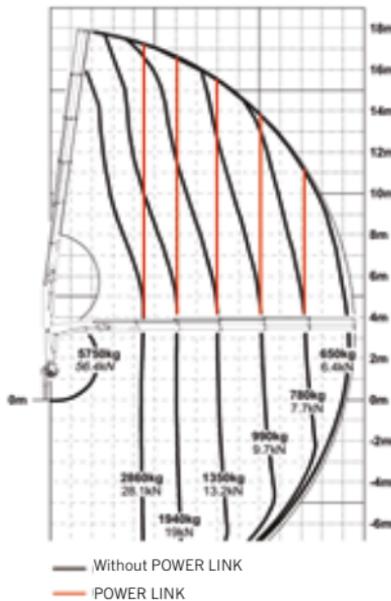
- The maximum load can be raised vertically. This way greater outreach is achieved with maximum load. (Load curves run vertically on the payload charts)
- The crane can lift the maximum load even when main boom and knuckle boom are one line
- Compact transport size through parallel folding up of the boom system

A GREAT VARIETY OF APPLICATIONS

- Larger operating radius (up to more than 180 degrees)
- Maximum load can be lifted even with main boom fully erected (this is the weakest position for non linkage cranes)
- Heavy and bulky loads can be brought close to the column

OPERATOR-FRIENDLINESS

- Easier crane operation due to constant speed during the whole movement



OWN REMARKS

SINGLE LINK PLUS POWER LINK PLUS



PRODUCT FEATURES

At PALFINGER, SINGLE LINK PLUS or POWER LINK PLUS mark the further development of the linkage system to the reverse linkage system. A PALFINGER development that is state of the art for modern truck-mounted cranes today. The knuckle boom can extend backwards up to 15°.

SINGLE LINK PLUS:

Reverse linkage system for single linkage cranes

POWER LINK PLUS:

Reverse linkage system for double linkage cranes

HOW IT WORKS

A completely new kinematics is achieved due to lengthening of the cylinder and a change to the linkage and the shape of the main components. As a result, it is possible for the knuckle boom to overextend over the horizontal line of the main boom.

A VARIETY OF USES FOR THE MOST DIFFICULT APPLICATIONS

MORE EFFICIENCY IN USE

- The large range of movement of the knuckle boom up to 195° increases the efficiency of the truck-mounted crane's work
- The crane can be folded down on the loading deck extended without exceeding the legal vehicle height

A GREAT VARIETY OF APPLICATIONS

- The crane can perform work in limited spatial conditions (e.g. through window openings and doorways)
- Lifting can still be performed despite obstacles (e.g. between ceiling supports)
- Precise and accurate control due to constant speed

MAINTENANCE AND SERVICE-FRIENDLINESS

- Inspections- and maintenance work on the boom system can be carried out more easily



OWN REMARKS

PALTRONIC 50

PALTRONIC 150



PRODUCT FEATURES

With the PALTRONIC 50 and PALTRONIC 150, PALFINGER offers the latest control electronics for the series production crane.

The most important safety and comfort functions include:

- Overload cut-off
- Stability control (HPSC)
- High Power Lifting System (HPLS)
- Active Oscillation Suppression system (AOS)
- Dual Power System plus (DPS plus) in the fly-jib insert

HOW IT WORKS

The PALTRONIC controls and monitors the crane.

1. Pressure sensors on the cylinders sends the capacity information of the crane to the PALTRONIC system.
2. Position sensors sends information on the position of the boom system, the slewing gear or the stabilizer support to the PALTRONIC system.

Based on the incoming signals, the PALTRONIC system decides on deactivating or activating systems.

THE BRAIN OF THE CRANE

OPERATOR-FRIENDLINESS

- Direct communication with the crane. Display of the utilization and overload directly on the operator's handset
- Full concentration on load handling through continuous monitoring of the crane

MAINTENANCE AND SERVICE-FRIENDLINESS

- Quick and easy troubleshooting through permanent status read-out on the display panel
- Recording of the crane status
- Quick and uncomplicated programming

MAXIMUM RELIABILITY

- Tried and tested, proven technology
- Flawless coordination of the entire electronics structure from sensor system to software
- High resistance to vibrations and temperature fluctuations

SAFE CRANE OPERATION

- Protection of the crane and its attachments against overloading
- Monitoring of the stability depending on the boom position and support situation



OWN REMARKS

RADIO REMOTE CONTROL



PRODUCT FEATURES

Today, radio remote controls are often considered to be standard equipment when it comes to modern loader cranes.

PALFINGER radio remote controls are equipped with a choice of a linear lever or cross lever and provide the greatest possible comfort for the operator. For cranes with PALTRONIC, an LED respectively LCD or TFT colour display informs the crane operator of the different operating conditions. For crane models PC 1500 up to PK 4200 an individual pocket -radio remote control is available. For all SH-models we offer our in-house developed PALcom P7.

HOW IT WORKS

The remote control transmitter (handset) is responsible for transmitting the commands made on the levers to the receiver. The receiver forwards the signals to the electronics, which convert them into crane movements by means of hydraulic control valves.



EFFICIENT ONE-MAN OPERATION

MORE EFFICIENCY IN USE

- Efficient "one-man operation"
- Actuation of additional functions directly on the operating console
- The operator can see the crane load even when not standing near the crane

OPERATOR-FRIENDLINESS

- Individual operating elements (cross or linear lever) and carrying straps available
- Individual speed settings possible

MAINTENANCE AND SERVICE-FRIENDLINESS

- Quick troubleshooting through error code display
- Easy to replace transmission consoles

SAFE CRANE OPERATION

- Possible to operate outside the danger zone
- Safety switch-off in the event of frequency overlap
- Alternative cable operation is available when working in areas where radio frequencies are not permitted (airports, hospitals,...)



OWN REMARKS

PALCOM P7



PRODUCT FEATURES

The PALcom P7 is a radio remote control developed personally by PALFINGER. The exclusive loader crane radio remote control handset features a modern, ergonomic design. The hand rests and set-up of the control levers are carefully chosen to enable fatigue-free work. A centrally located "PALdrive" knob and a large colour display enables an easy and safe operation. The "intelligent" charging station measures the battery's charged state and temperature of the surrounding area, thereby facilitating a gentle and quick charging process. In addition, the charging station checks whether it and the battery are operating properly. The charging station also features a refresh function, which ensures full battery capacity throughout the entire service life of the battery.



FATIGUE-FREE OPERATION

MORE EFFICIENCY IN USE

- Long operational time thanks to long battery life (up to 12 hours)
- Stable radio transmission thanks to frequency hopping

OPERATOR-FRIENDLINESS

- Fatigue-free operation thanks to ergonomic design of the hand rests and control panels
- Optimum wearing comfort thanks to ergonomically shaped carrying straps

SAFE CRANE OPERATION

- Accidental crane movements are avoided thanks to a rollover- and acceleration sensor
- Better legibility of the control symbols in poor lighting conditions thanks to four LED´s
- High safety standard thanks to optical, acoustic and haptic feedback on the radio remote control handset

ENVIRONMENTAL FRIENDLINESS

- Quick and gentle charging thanks to the intelligent charging station
- High battery lifetime thanks to the refresh function

OWN REMARKS

MENU NAVIGATION



PRODUCT FEATURES

On the new PALcom P7 a central 4.1 inch TFT-colour display with transfective technology is used for the first time in the loader crane sector. Thanks to the “transfective” technology, the large display can be easily read, even in bright sunlight, but is still high energy-efficient. A centrally arranged control knob “PALdrive” and an intuitive menu navigation with a large display offer easy and save operation. The operator is informed exactly about the different operating states and is guided clearly and safety at all times.



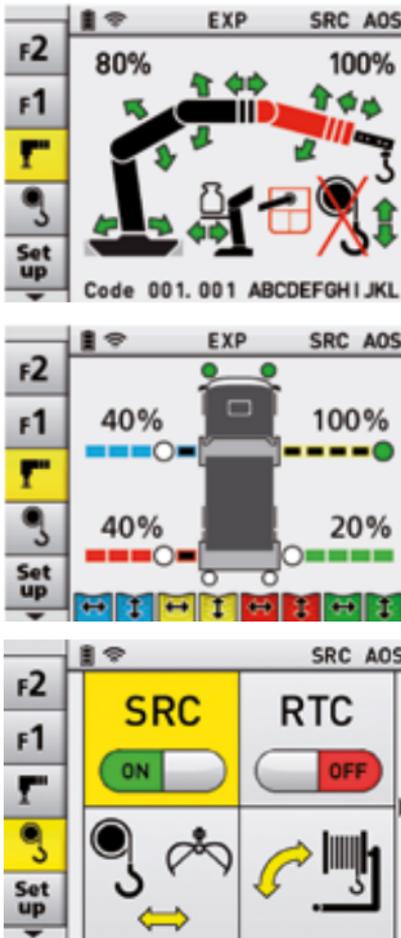
IN DIALOG WITH THE USER

OPERATOR-FRIENDLINESS

- Easy and safe operation thanks to an intuitive menu with 4.1-inch TFT color display and "PALdrive" control knob.
- Display is easily legible even in direct sunlight thanks to transfective technology

SAFE CRANE OPERATION

- High safety standard thanks to optical, acoustic and haptic feedback on the radio remote control handset



OWN REMARKS

P-FOLD



PRODUCT FEATURES

P-Fold is a new PALFINGER assistance system. It makes folding and unfolding an easy job for the operator. The P-Fold system also works in combination with the innovative RTC (Rope Tension Control). Both systems perfectly support the crane's set-up processes and thus reduce set-up times to a minimum. The operator will be guided safe and clearly thanks to the intuitive menu navigation of the new PALcom P7 – a major benefit also for inexperienced operators. In addition to the significant increase in operator comfort, the prevention of damage on vehicle, load and rope is another important point.

The P-Fold system will be available for SH-models with the new PALcom P7, from the PK 42002 SH to the PK 200002 L SH.

PERFECTLY SET UP WITH FINGERTIP MOVEMENT

HOW IT WORKS

1. UNFOLDING WITH FINGERTIP MOVEMENT

After P-Fold is activated, the crane is set in motion by moving just one control lever. The intelligent control-system coordinates all the crane movements and fly jib movements until a defined working position is reached. In combination with RTC, the winch will also be controlled fully automatically by P-Fold.

2. FOLDING WITH FINGERTIP MOVEMENT

After the job is finished, the crane can be folded from any working position. P-Fold again coordinates all crane movements including the fly jib functions. The operator controls the innovative system with just one control lever until the crane has reached its final transport position

EFFICIENCY IN USE

- Time saving through automated folding and unfolding of the crane.

OPERATOR FRIENDLY

- Easy and intuitive operation thanks to the PALcom P7 radio remote control.
- Higher comfort through automated folding and unfolding of the crane.

SICHERER KRANBETRIEB

- Prevention of damage to vehicle or crane during folding and unfolding.



AOS

ACTIVE OSCILLATION SUPPRESSION



PRODUCT FEATURES

The patented PALFINGER ACTIVE OSCILLATION SUPPRESSION (AOS) system dampens the boom system of the crane, compensating for vibration and shock, even after a sudden stop of the lifting function. The result is a significant increase in safety in crane operation for operator, loads and surrounding areas.

HOW IT WORKS

AOS receives pressure readings from special sensors mounted at both the top and bottom of the main lifting cylinder.

The system then sends inputs to each side of the control valve spool to counteract the pressure peaks. This raises and lowers the main lift cylinder very quickly and matches the frequency and amplitude of the oscillating boom. As a result, the boom is dampened to the point where only one or two small oscillations occur, bringing the boom to an immediate standstill.

Patent granted.

MAXIMUM PRECISION AND SAFETY

MORE EFFICIENCY IN USE

- Experienced crane operators can move the crane much faster with pinpoint accuracy
- Helps and avoids damage to the load, truck and surroundings

A GREAT VARIETY OF APPLICATIONS

- Adjustments can be made with the touch of your fingers
- Emptying “concrete buckets” without post-oscillation

OPERATOR-FRIENDLINESS

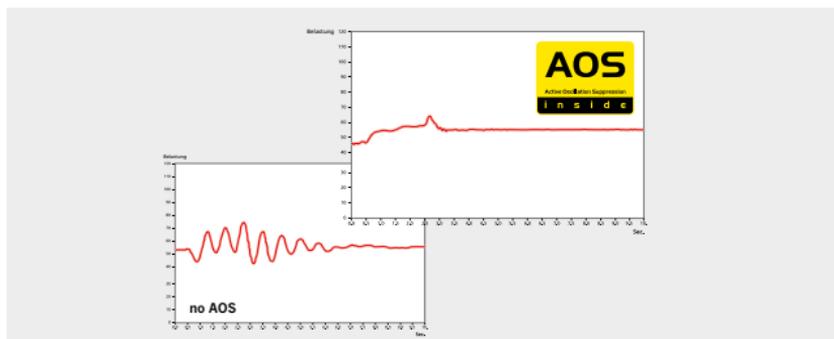
- Beginners can operate the crane with more precision and care
- Experienced crane operators can move the crane much faster without having to compromise precision and sensitivity

SAFE CRANE OPERATION

- Loads are held steady, rather than bouncing after abrupt stops
- No uncontrolled movements of the boom system in the event of unloading
- Helps to prevent collisions between the boom system and the building or other surroundings
- Increased stability, reduction of stabilizer support loading

INCREASED RESALE VALUE

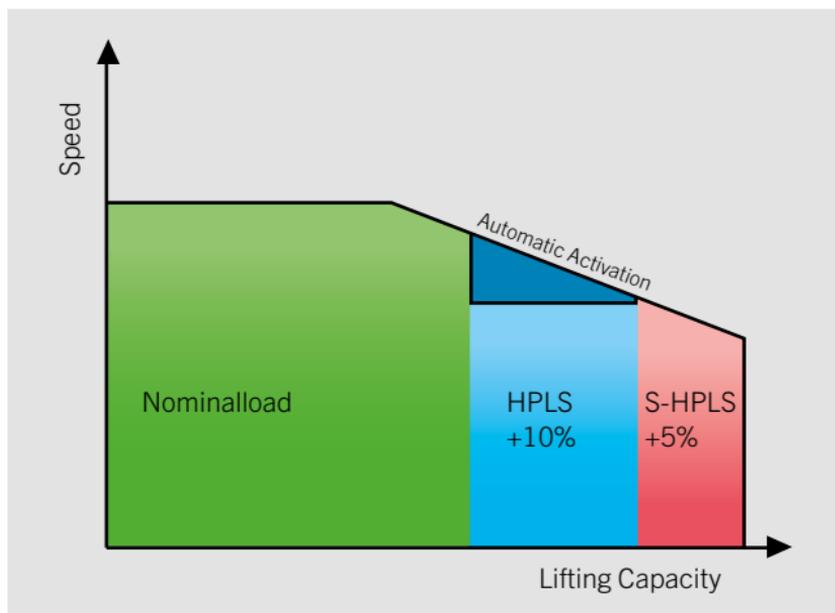
- The boom experiences much less stress, which reduces wear and tear on the entire vehicle



OWN REMARKS

HPLS

HIGH POWER LIFTING SYSTEM



PRODUCT FEATURES

The PALFINGER HIGH POWER LIFTING SYSTEM (E-HPLS or S-HPLS) increases the capacity of the crane by up to 15% with reduced working speed. E-HPLS can be activated manually for the occasional manipulation of very heavy loads. S-HPLS is activated fully automatically for the SH crane series. There is continuous activation depending on the power required.

HOW IT WORKS

If HPLS is activated, then the hydraulic pressure is increased electronically. That way, a higher payload can be achieved. At the same time, the speed is reduced by the electronics system.

MAXIMUM POWER, WHEN IT IS REALLY NEEDED

MORE EFFICIENCY IN USE

- Increased lifting power of the crane
- Better lift-to-weight ratio
- Each function is slowed by different amounts, so that less critical functions like boom extend/retract can still run close to normal speed

OPERATOR-FRIENDLINESS

- The reduced speed allows for accurate positioning of heavy loads

INCREASED RESALE VALUE DUE TO

- The service life of the crane is prolonged by reduced dynamic loading of the crane structure



- without HPLS
- with HPLS

OWN REMARKS

HPSC

HIGH PERFORMANCE STABILITY CONTROL



PRODUCT FEATURES

High Performance Stability Control (HPSC) is a proportional system which recalculates and defines the working range and stability of the crane. Sensors for proportional path measurement are located in the stabilizers making their positioning fully variable.

HOW IT WORKS

The HPSC system calculates and defines the permissible working range for any stabilizer situation. The position of the stabilizer support is detected by means of cable extension transducers or magnetostrictive position sensors located in the outrigger. Based on an intelligent calculation algorithm developed by PALFINGER, this complex calculation process enables a very accurate approximation to the vehicle's actual stability based on the crane and vehicle's real data.

INTELLIGENT STABILITY CONTROL

MORE EFFICIENCY IN USE

- Optimal use of the possible working range
- Maximum lifting capacity at any point of the stability control curve

A GREAT VARIETY OF APPLICATIONS

- Crane operation is also possible where space is restricted

OPERATOR-FRIENDLINESS

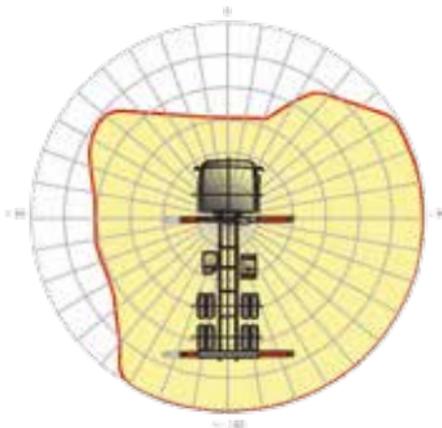
- Highest operator comfort thanks to clearly laid out display on the operator's console or on the display of the radio remote control

MAINTENANCE AND SERVICE-FRIENDLINESS

- Easy maintenance using the PALDIAG diagnosis software

SAFE CRANE OPERATION

- An automatic shut-off will occur if outriggers or load are in a compromising situation



OWN REMARKS

LOW MAINTENANCE EXTENSION SYSTEM



PRODUCT FEATURES

With the low maintenance extension system, PALFINGER leads the way in service-friendliness. The use of sliding elements made from special synthetic material, together with the highly dependable KTL cataphoretic dip painting, means that the operator no longer needs to grease the boom system.

HOW IT WORKS

The sliding elements are molded from special synthetic material and have self-lubricating properties. No further servicing is required after the first, initial lubrication, in which food grade grease is used. All other elements (slide rails, slide blocks, etc.) operate without grease. These elements have only a secondary function as sliding elements; they are primarily employed as adjustment and guiding elements. Special synthetic materials are also used for the paint in order to protect against corrosion.

MINIMUM MAINTENANCE AND SERVICE WORK

MORE EFFICIENCY IN USE

- Work area remains clean

MAINTENANCE AND SERVICE-FRIENDLINESS

- No greasing of the extension system by the operator
- No greasing of the sliding block in the guide rails

OPERATOR-FRIENDLINESS

- Smoother operation of the extension

DESIGN AND LOOKS

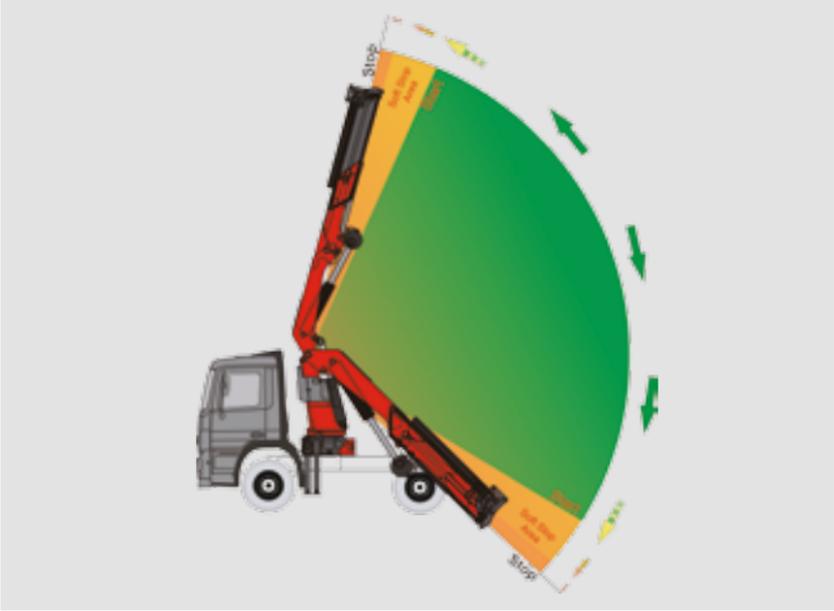
- Clean appearance of the extension system and the entire crane vehicle

INCREASED RESALE VALUE

- Reduction in service time and maintenance costs
- Longer service life due to less wear and tear

OWN REMARKS

SOFT STOP



PRODUCT FEATURES

Soft Stop is an electronic limit position damper. It provides gentle braking of all crane movements before the mechanical limit stop is reached. Hence, jerky movements and load impacts from oscillating loads can be avoided for the protection of the crane operator, load and vehicle.

HOW IT WORKS

The movement sensors facilitate a slow approach of the movements to the limit stop. The approach to the limit stop is dampened by means of a ramp function. The ramp functions reduce the movement speed within a defined angle to a preset minimum value with which the limit stop can then be approached.

MORE SAFETY AND CONVENIENCE

MORE EFFICIENCY IN USE

- Faster crane operation with pinpoint accuracy
- No damage to load, crane vehicle or buildings
- Less loading of the crane structure

OPERATOR-FRIENDLINESS

- High accuracy and sensitivity of the crane
- Beginners can operate the crane with more precision and care
- Experienced crane operators can move the crane much faster with pinpoint accuracy

SAFE CRANE OPERATION

- No "post-oscillations of the load - immediate stoppage
- Dropping of the load is prevented
- Precise and accurate control due to constant speed
- Increased stability, reduction of stabilizer support loading

OWN REMARKS

HIGH SPEED EXTENSION (RETURN OIL UTILIZATION)



PRODUCT FEATURES

The HIGH SPEED EXTENSION is a standard feature at PALFINGER. Also referred to as RETURN OIL UTILIZATION this feature is a regenerative hydraulic circuit for the extension booms. It speeds up the boom extension and retraction functions by up to 30%.

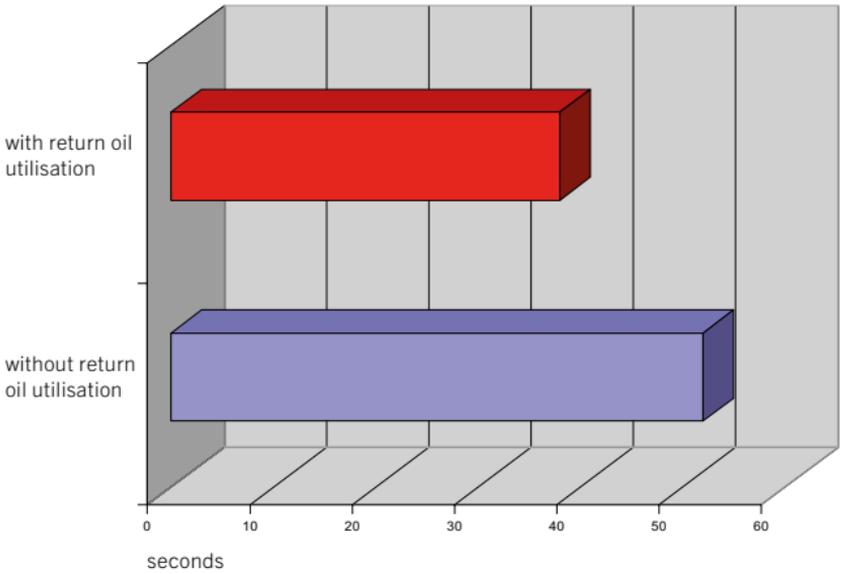
HOW IT WORKS

The return oil from piston rod side is not sent to the tank but will be diverted via the load holding valve into the pressure lines. Due to the increase in oil flow, the cylinder movement is increased and hence extension speed is also increased.

HIGH SPEED IN THE EXTENSIONS BOOM

MORE EFFICIENCY IN USE

- Crane works faster and therefore more efficiently by reducing load cycle times



OWN REMARKS



PRODUCT FEATURES

The right surface treatment is the foundation for durable and long-lasting surface protection. Through this innovative technology for surface coating, PALFINGER creates a quality standard that is usually only found in the automobile industry.

HOW IT WORKS

1. The crane components are cleaned of all impurities by means of cut steel shot blasting.
2. The components are degreased, rinsed, activated and coated with zinc phosphating in the individual immersion tanks.
3. After two additional rinsing processes, the surfaces are passivated as well as rinsed with pure water.
4. The electrostatic cathodic dip painting follows by immersing the crane components completely in the paint.
5. Excess paint is washed off in two additional operations with an ultra-filtration rinse.
6. Afterwards, the paint is cured at a temperature of 115 degrees for 1.5 hours.
7. Crane components are then given a top coat in a further work step by means of a spray robot. The two component finish coat paint is water-soluble and environmentally friendly.

SURFACE PROTECTION OF THE HIGHEST QUALITY

INCREASED RESALE VALUE

- Cranes with KTL coating crane retain a higher resale value

DESIGN AND LOOKS

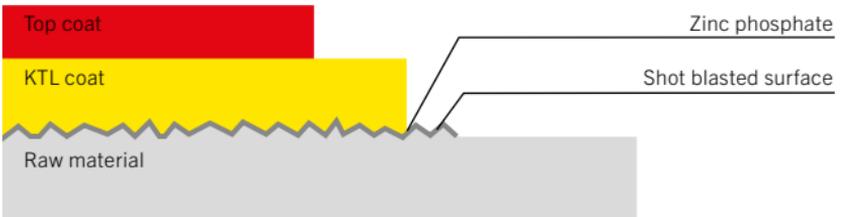
- Automotive quality paint finish
- The coating is elastic, abrasion-resistant and UV resistant
- High impact resistance and temperature resistance

HIGH VALUE RETENTION

- Long-life surface protection
- Excellent corrosion protection of all components
- Perfect cavity protection

ENVIRONMENTAL FRIENDLINESS

- Use of environmentally friendly paint



OWN REMARKS

INTERLOCK SYSTEM



PRODUCT FEATURES

PALFINGER cranes are equipped with an innovative outrigger safety system for manual stabilizer supports that prevent the outrigger from extending if a locking device fails.

HOW IT WORKS

The handle is turned, which raises the main locking pin. A secondary lock is turned simultaneously, releasing the catch allowing the outrigger to be pulled out. When the outrigger is pushed back in, the main locking pin is automatically locked and the secondary lock is turned back to the locked position. The turning of the handle is blocked mechanically by means of a safety latch. Optionally, the position of this latch can be monitored with a proximity switch, so that up to four safety features would be incorporated into this one system.

Patent granted.

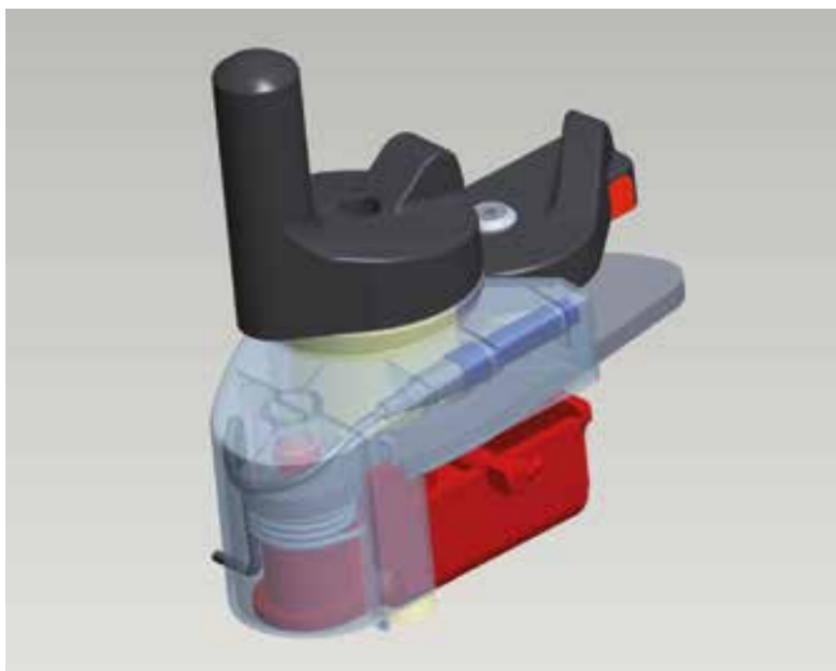
INNOVATIVE OUTRIGGER SAFETY SYSTEM

SAFE CRANE OPERATION AND TRANSPORT

- Four features in one system
 - locking pin
 - arresting hook (secondary lock)
 - safety latch
 - monitoring of the safety latch
- No independent extension of the outrigger possible
- Warning and acoustic signal in the cab indicating position of outriggers

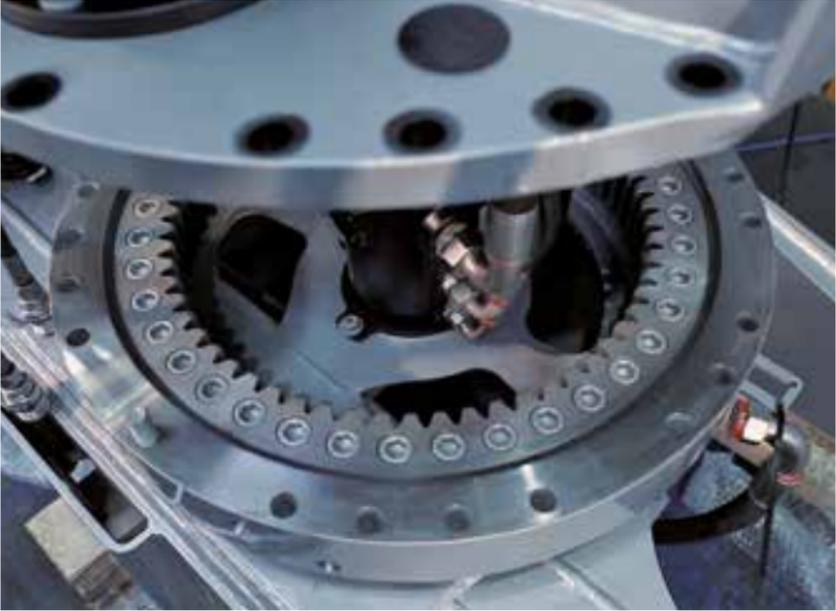
OPERATOR-FRIENDLINESS

- Easier and faster deployment of outriggers
- Easier and faster stowage of outriggers
- Single-handed operation, even with gloves



OWN REMARKS

CONTINUOUS SLEWING SYSTEM



PRODUCT FEATURES

The PALFINGER Continuous Slewing Mechanism permits an unrestricted radius of action. The crane is rotated or 'slewed' using a gear box and hydraulic motor rather than a rack and pinion system. All endless slewing mechanisms come as standard with a high quality roller ball bearing.

HOW IT WORKS

A hydraulic motor drives a pinion which meshes with a basemounted high quality roller ball bearing, rotating the crane. The gears are precision machined to minimize back lash between the gears. The roller ball bearing is made with very tight tolerances for width, flatness, and perpendicularity. The matching surfaces on the base and the column are machined in a single clamping for the highest possible accuracy. On larger cranes two identically sized slewing motors are set across from each other on the column. One motor is hydraulically preloaded against the other, which eliminates all backlashes in the rotation system.

UNRESTRICTED MOVEMENT

MORE EFFICIENCY IN USE

- Faster cycle times because the crane can be slewed over a shorter distance. The crane works more efficiently and faster
- Higher slewing moment through minimized friction in the slewing mechanism

A GREAT VARIETY OF APPLICATIONS

- Crane can be used independent of the vehicle position
- Load handling also possible in tight spatial conditions

SAFE CRANE OPERATION

- Safe and smoother operation due to elimination of catching end-stop
- Accurate positioning of loads due to low clearance on slewing mechanism

MAINTENANCE AND SERVICE-FRIENDLINESS

- Very little maintenance is needed on the ball bearing slewing ring

INCREASED RESALE VALUE

- Longer service life of the slewing system because of the ball bearing slewing ring

OWN REMARKS

HYDRAULICALLY TILTABLE STABILIZERS



PRODUCT FEATURES

The stabilizer cylinders of the crane can be slewed upwards fully hydraulically by 180°. The stabilizer cylinders can be actuated on the control console, and also optionally on the radio remote control.

HOW IT WORKS

Small and medium crane series:

A separate hydraulic cylinder creates a turning motion by means of a gear rack and gear wheel. This upward slewing function is combined hydraulically with the retraction/extension function of the supporting cylinder.

Large cranes:

The supporting cylinder is connected to an eccentric rod that uses the force of the retracting or extending supporting cylinder to slew the supporting cylinder upwards or downwards. It is very easy to operate and does not require a separate hydraulic function. The eccentric rod is equipped with a removeable pin. Removing the pin allows a full retraction of the piston rod and thus more ground clearance.

Patent granted.

EASY HANDLING

MORE EFFICIENCY IN USE

- The crane can be mounted in a space-saving way directly above axles, tanks or toolboxes
- Longer cylinder strokes for optimum stabilizer support in different situations
- Outstanding ground clearance for optimized clearance angle and slope angle
- Stabilizer support of the crane possible despite obstacles. Guard rails, walls or fences can be overcome

OPERATOR-FRIENDLINESS

- No separate operation necessary. The tiltable slewing function is combined with the retraction/extension function of the supporting cylinder
- No manual tiltable slewing of the supporting cylinder necessary



OWN REMARKS

INTEGRAL BASE FRAME



PRODUCT FEATURES

PALFINGER large cranes can be equipped with an integral base frame as a standard feature or an option depending on the crane size. Since the crane can be mounted directly onto the truck frame, there is a weight and height reduction.

HOW IT WORKS

The integral base frame is designed so that it protects the truck against the forces that occur from crane operations as part of the sub-frame. The crane sits directly on the truck frame. The sub-frame itself is then fastened to the integral base frame in the form of a closed, torsion-resistant box.

PERFECT INTEGRATION

MORE EFFICIENCY IN USE

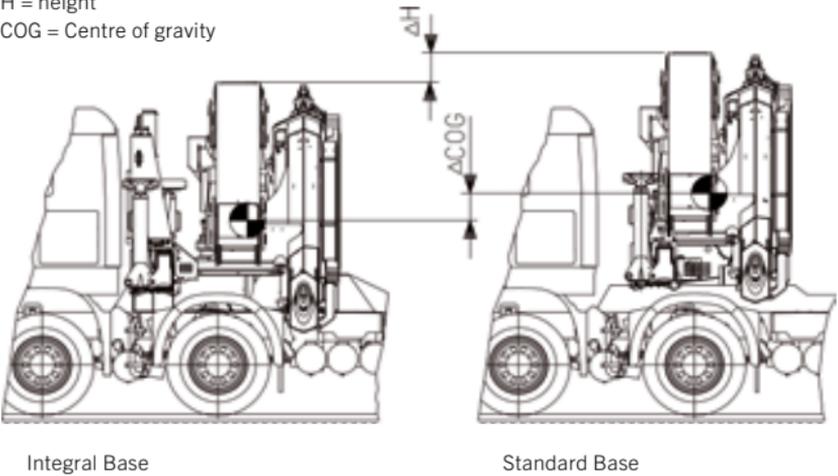
- Very low overall installation height and hence more possible applications in limited spatial conditions
- Due the weight savings, higher payloads can be transported
- A torsion-resistant construction reduces the spring-back during crane work

SAFE CRANE OPERATION:

- Increase of the stability through low centre of gravity

H = height

COG = Centre of gravity



OWN REMARKS

FUNCTIONAL DESIGN



PRODUCT FEATURES

A good design must primarily fulfill its purpose, i.e. it should fulfill the function of the component the best way possible. Moreover, it must be possible to use it easily, ergonomically and economically.

PALFINGER knows how to combine the functionality with individuality - through the use of new materials, shapes, colors and detailed solutions.



FUNCTION AND DESIGN REDUCED TO A COMMON DENOMINATOR

OPERATOR-FRIENDLINESS

- Functional design elements increase the operator comfort

MAINTENANCE AND SERVICE-FRIENDLINESS

- Functional design elements simplify service and maintenance

DESIGN AND LOOKS

- Besides the functional benefits, there is a priceless image and advertising effect that comes with an optically, high-quality product

INCREASED RESALE VALUE

- Long-term value retention through protection of sensitive components and a modern appearance

SAFE CRANE OPERATION

- Functional design elements protect the operator against incorrect operations



OWN REMARKS

CONTROL PANEL LIGHT



PRODUCT FEATURES

The control panel of the High Performance models can be equipped with LED lighting and backlit symbols.

HOW IT WORKS

LEDs in the hand-lever guard illuminate the entire control panel. They make it easier to read the machine functions and give the crane operator a quick general overview during the work process.

OPERATOR-FRIENDLINESS

- Illumination of the entire control panel
- Very good visibility of the integrated operating symbols

SAFE CRANE OPERATION

- Safety and comfort, even with poor visibility

OWN REMARKS

WARNING LIGHTS ON THE STABILIZERS



PRODUCT FEATURES

The LED warning lights on the stabilizer cylinders are used for better visibility of the stabilizers.

SAFE CRANE OPERATION

- Better visibility of the outrigger position and stabilizer cylinder
- Safety for the crane operator, passers-by and flowing traffic

OWN REMARKS

TILTABLE STABILIZER PLATES



PRODUCT FEATURES

All stabilizers are equipped with a 10° tiltable stabilizer plate on a ball joint as a standard feature.

HOW IT WORKS

The enlarged stabilizer plates of the supporting cylinder are moveable and facilitate better adaptation to the ground.

SAFE CRANE OPERATION

- Optimum adaptation of the stabilizer plate to the respective ground
- The enlarged plate reduces ground pressure

OWN REMARKS

SPIRAL PIPE HOSE



PRODUCT FEATURES

The hydraulic hoses that run from the base frame to the boom system are installed in a robust spiral pipe hose.

HOW IT WORKS

A spiral pipe hose protects the hydraulic hoses against damage. Through the installation on the outside, easy maintenance is possible.

DESIGN AND LOOKS

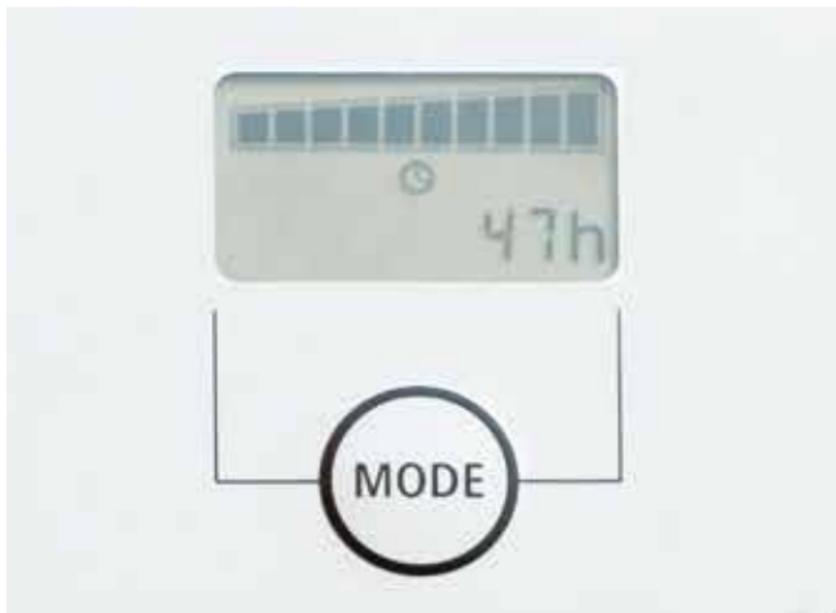
- Ideal protection of the hydraulic hoses to keep clean and protect against damage

MAINTENANCE AND SERVICE-FRIENDLINESS

- Service and repair work is simplified considerably compared to hoses enclosed inside the unit

OWN REMARKS

DIGITAL OPERATING HOURS COUNTER



PRODUCT FEATURES

The digital operating-hour counter is found on all of the High Performance series cranes.

The display modes inform the crane operator of

- total operating hours
- operating hours until the next service, and
- serial number of the unit

MAINTENANCE AND SERVICE-FRIENDLINESS

- Easy to read the total hours
- Display of the hours until the next service
- Readout of the crane serial number
(important for diagnosis and spare parts supply)

OWN REMARKS

DIGITAL HOUR COUNTER FOR ROPE WINCH



PRODUCT FEATURES

The digital operation-hour counter for the rope winch is installed on all models of the High Performance series.

The display informs the crane operator of:

- the total operating hours of the rope winch
- the operating hours until the next service

MAINTENANCE AND SERVICE-FRIENDLINESS

- Easy to read off the total hours
- Display of the hours until the next service



OWN REMARKS

OIL COOLER



PRODUCT FEATURES

PALFINGER oil coolers are offered from 8.5 kW to 20.0 kW depending on the crane size. They are light and compact and can be fastened directly to the base frame with a protective bracket. The coolers are mounted on the base frame as a standard feature for package cranes.

HOW IT WORKS

An air-oil cooler transports air with a fan over a long, looped, oil-filled line. If need be, the cooler can also be switched on by an automatic thermostat so that the oil temperature does not exceed a permissible level. Additional cooling takes place in the tank when the cooled oil is mixed with the remaining amount of oil. Oil coolers that are mounted on the base frame are protected against damage by a solid bracket.

OPTIMAL TEMPERATURE

MORE EFFICIENCY IN USE

- Longer service life of the oil, seals, valves and other hydraulic components through lower oil temperature
- A smaller tank can be used for the same crane type. This way weight is saved
- The crane can be operated in a very hot climate and with high load cycles

OWN REMARKS

FLY-JIB SYSTEM



PRODUCT FEATURES

A fly-jib system extends the working range of the crane and thereby increases the possible areas of application. The same crane can be used with or without the fly-jib and can therefore be adapted for different applications. Applications with additional attachments (grabber, rotator) and/or cable winch are possible. The higher the quality of the technical configuration of the fly-jib, the more efficient the application of the crane regarding the lifting power and outreach. The high competence of PALFINGER in lightweight construction is applied here directly in performance. Through a multitude of model variations, PALFINGER offers a complete, highly developed fly-jib system series for cranes from 15 to 150 meter tonnes.

HOW IT WORKS

A fly-jib is a removable, hydraulic extension on the end of the extension system of the crane that can be tilted through a hydraulic function. A fly-jib can also be moved under load.

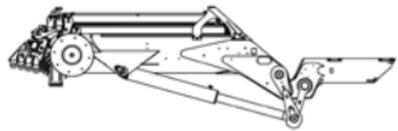
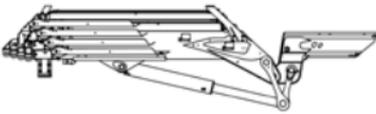
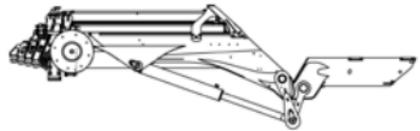
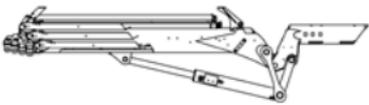
MORE POSSIBLE APPLICATIONS FOR YOUR TRUCK-MOUNTED CRANE

MORE EFFICIENCY IN USE

- Improvement of the movement geometry of the crane
- Lightweight construction for optimized lifting capacity
- Compact construction with low overall height

A GREAT VARIETY OF APPLICATIONS

- Additional, very high knuckle point for working above building edges
- Additional working area as the fly jib can be angled upwards 25 degrees
- Increase in the outreach of the crane
- Higher outreach on the fly-jib due to up to 6 hydraulic extensions



OWN REMARKS

DPS PLUS

DUAL POWER SYSTEM PLUS



PRODUCT FEATURES

The Dual Power System (DPS Plus) makes it possible to use the full lifting power of the fly-jib through the use of two pressure ranges on the fly-jib. With DPS Plus the full lifting power of the fly-jib can be used if the crane's extension boom is not completely extended. It is perfect for crane-jib combinations with very long outreach.

HOW IT WORKS

The fly-jib can also be operated with two pressure ranges through the use of a special electronic overload cut-off. If the last extension boom of the crane is extended (normal operation), then the lifting power is reduced to protect the crane against overloading. If the last extension boom of the crane is retracted (DPS Plus active), then the system switches automatically to the high pressure range thereby using the full lifting power of the fly-jib.

EFFICIENT FLY-JIB OPERATION

MORE EFFICIENCY IN USE

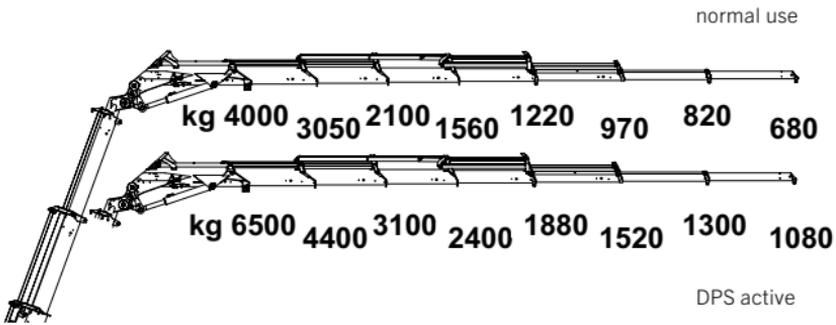
- Optionally available system for lifting power increase on the fly-jib
- Full lifting power on the fly-jib if the last extension boom of the crane is retracted

A GREAT VARIETY OF APPLICATIONS

- Use of the crane both for large outreaches as well as for heavy load operation

OPERATOR-FRIENDLINESS

- Automatic change-over on the extension system of the crane



Example: PK 110002 G PJ 170 E JV1 DPS Plus

OWN REMARKS

LOAD SENSING CONTROL VALVES



PRODUCT FEATURES

PALFINGER only uses control valves that were developed in cooperation with premium manufacturers for the requirements of PALFINGER. As a result, there is a perfect interplay between the electronics and hydraulics, and maximum safety, comfort and functionality is guaranteed.

HOW IT WORKS

The job of a control valve is to make it possible to control and monitor one or more hydraulic functions at the same time. Here, it is possible to accurately move each actuator (cylinders, motors, etc.) independently of the other connected unit.

PRECISION CONTROL

MORE EFFICIENCY IN USE

- Faster work cycles by controlling several functions at the same time
- High availability through maintenance and service-friendly design (sandwich construction)
- In connection with a variable displacement pump, LS valves ensure the highest energy efficiency

OPERATOR-FRIENDLINESS

- Sensitive and precise control for delicate installation work
- No mutual interference of the movements through independent pressure compensators
- Joint development with PALFINGER for customized solutions for the control of truck-mounted cranes



OWN REMARKS

ROPE WINCH



PRODUCT FEATURES

A rope winch is in many cases the most important equipment for the operation of a loader crane. Hence the power of the winch itself determines the efficiency of the entire crane to a great extent. During the design process, the greatest possible attention was paid to the lifting capacity, speed and optimum winding behaviour. A complete series consisting of 1.5t, 2.5t, 3.5t and 4.5t winches is available thereby offering the ideal combination with the respective crane class.

HOW IT WORKS

By using an axial piston motor, both very high starting torque under load as well as very high rope speed are achieved. The installation of the motor and brake as a unit inside the drum produces very compact dimensions.

ADDITIONAL POSSIBLE APPLICATIONS FOR YOUR TRUCK-MOUNTED CRANE

MORE EFFICIENCY IN USE

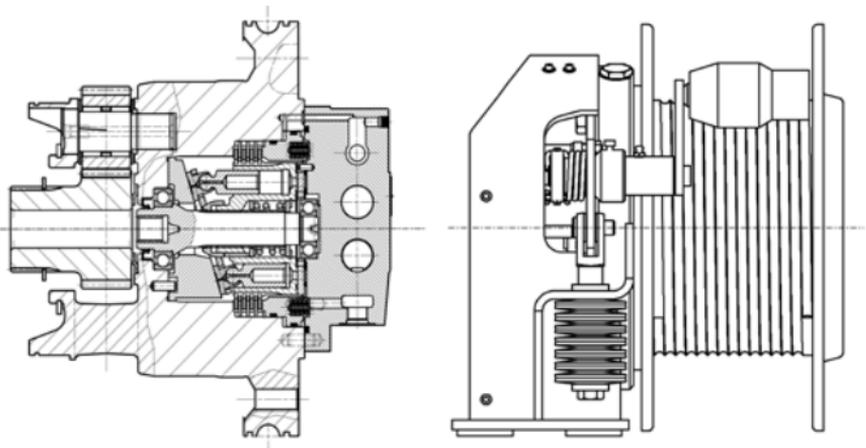
- High lifting power
- High starting torque makes it possible to start-up the rope winch under full load
- Rope lengths up to 90 meters make it possible to work with the fly-jib or in 4-line cable winch operation
- Reduced oil heating hence longer work cycles are possible
- Quick solutions for overcoming large lifting heights up to 50% higher, in comparison to conventional winches

OPERATOR-FRIENDLINESS

- Better coiling of the rope through special grooving of the drum
- Use of the tried and proven mechanical solution for extension stop and limit switch

INCREASED RESALE VALUE

- Optimized corrosion protection through KTL coating



OWN REMARKS

POWER LINK ROPE WINCH



PRODUCT FEATURES

The POWER LINK rope winch, a hydraulic, hinged rope winch on the main boom, sets new standards in connection with convenience, simplification of work and time saving in rope winch operation.

HOW IT WORKS

Instead of mounting directly on the main boom, the rope winch is mounted on a hinged bracket. This bracket is brought into the work position from the transport position hydraulically. A linkage system is used to redirect the linear cylinder movement (Power Link). It is operated by radio remote control.

MORE CONVENIENCE IN ROPE WINCH OPERATION

MORE EFFICIENCY IN USE

- Low installation height during transport with folded up crane boom
- Low installation height when operating the cable winch
- Compact design

A GREAT VARIETY OF APPLICATIONS

- Also possible to use crane inside buildings

OPERATOR-FRIENDLINESS

- Quick start-up
- Easy operation with the radio remote control



OWN REMARKS

RTC - ROPE TENSION CONTROL



PRODUCT FEATURES

The new RTC (Rope Tension Control) system is an automatic rope tensioning device that helps to fold and unfold the crane. This is a further innovation from PALFINGER that will significantly shorten the set-up time.

HOW IT WORKS

The Rope Tension Control can be activated or deactivated as required via the remote control, which is included as standard. All that needs to be done is for the rope to be clamped into the rope fixing point and secured via a rope securing bolt. If any crane movements are performed that affect the rope length, the innovative system automatically adjusts the rope length to match. The RTC system is controlled by the Paltronic 150 of the PALFINGER crane.

REDUCING SET-UP TIME

MORE EFFICIENCY IN USE

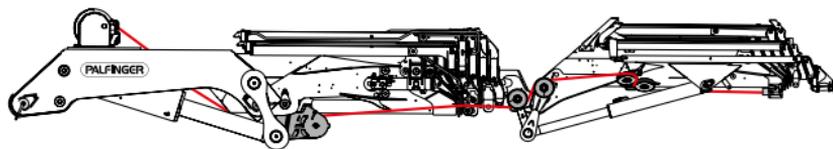
- Temporary hook operation with fly jib and reeved-in rope is possible. The time-intensive process of removing the rope is no longer necessary

OPERATOR-FRIENDLINESS

- The crane operator is free to focus all attention on the process of folding and unfolding the crane, without constantly having to worry about adjusting the rope

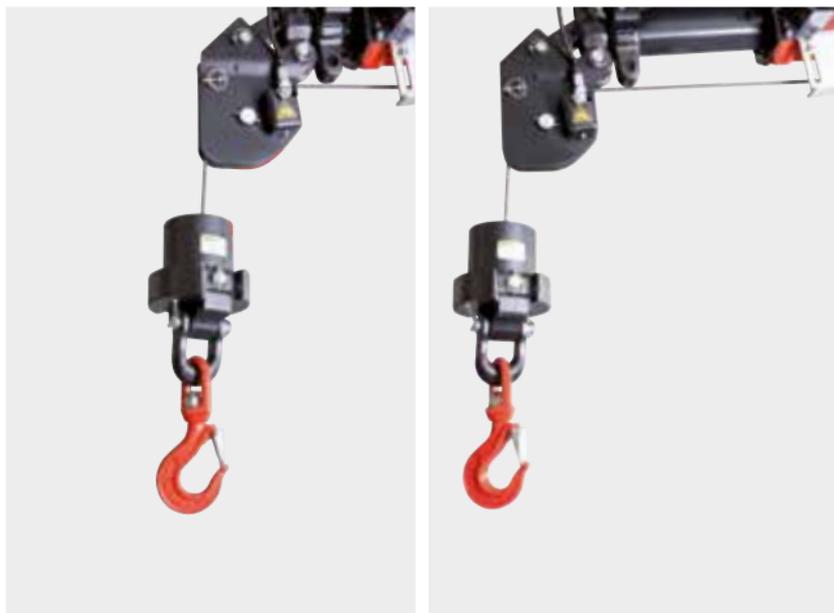
SAFE CRANE OPERATION

- Rope damage is avoided



OWN REMARKS

SRC - SYNCHRONISED ROPE CONTROL



PRODUCT FEATURES

The SRC (Synchronised Rope Control) system maintains a constant distance between the pulley head and the hook block. This advantage is particularly valuable in terms of ease of use for the operator, and it also noticeably improves the efficiency of any operation.

HOW IT WORKS

Sensors in the pulley head detect the movement and forward the signals directly to the Paltronic. If the SRC is activated, it automatically keeps the distance between the pulley head and the hook block constant during any crane movements that increase or decrease the rope length. A sensor on the pulley head detects that a rope length decreasing movement is being performed, when the boom is being extended. If the knuckle boom or fly jib is lowered, the SRC also adjusts the rope winch to keep a constant distance between the hook block and the pulley head.

MORE COMFORT IN ROPE WINCH OPERATION

MORE EFFICIENCY IN USE

- The load attached to the winch can be traversed horizontally at a constant height
- The load attached to the winch can be traversed at a specific angle
- The loading cycle is significantly improved

OPERATOR-FRIENDLINESS

- The crane driver can focus all attention on the actual crane movements

SAFE CRANE OPERATION

- Particularly for less experienced crane operator, the system offers great assistance when working with the rope winch
- Avoidance of damage to the rope or load
- The hook block is prevented from running onto the pulley head

OWN REMARKS

COMFORT CABLE ROUTING



PRODUCT FEATURES

The lateral routing of the rope for the rope winch (Comfort Cable Routing) on crane/fly jib combinations represents a major benefit in terms of comfort and time savings during set-up.

HOW IT WORKS

On all fly jib combinations, the rope of the winch is now routed laterally. It is no longer necessary to take off guide pulleys or intermediate pulleys when the crane is folded for transportation. The pulley head can also remain at the end of the boom and is simply moved to a special stowage position. And – last but not least – the rope itself can always remain reeved in when folding and unfolding the crane.

MORE EFFICIENCY IN USE

- Significant shortening of set-up times

OWN REMARKS

NEW HOOK BLOCKS



PRODUCT FEATURES

The design of the hook block plays a vital role in terms of ease of operation and the spooling behaviour of the rope winch. Different designs are available (with one, two or four lines) depending on the rope winch (1.5 t, 2.5 t, 3.5 t or 4.5 t).

OPERATOR-FRIENDLINESS

- Perfect contact with the pulley head thanks to asymmetrical stop plate
- Optimised spooling behaviour of the rope due to the increased weight of the hook block
- Tilttable bracket for easier reeving-in of the rope



OWN REMARKS

INTEGRAL TANK



PRODUCT FEATURES

The tank integrated on the base frame helps to save space. No additional installation space is required on the vehicle.

MORE EFFICIENCY IN USE

- Space saving assembly

OWN REMARKS

HIGH STAND



PRODUCT FEATURES

The high stand is presented with numerous detailed improvements - complete in line with the High Performance design and configurations used by PALFINGER. It complies with the new crane standard EN 12999: 2011 and is available alternatively for front and rear mounting.

OPERATOR-FRIENDLINESS

- Ergonomic operating levers on the control console increase working convenience
- Very good visibility of the integrated operating elements
- Payload chart for the respective crane version

SAFE CRANE OPERATION

- Complies with crane standard EN 12999:2011
- Telescopic railings for convenient access and optimum work safety

OWN REMARKS

HOSE GUIDES

MAIN BOOM - KNUCKLE BOOM



PRODUCT FEATURES

Hydraulic hoses between the main and knuckle boom are enclosed inside the unit. This patent pending solution provides protection against dirt and damage.

MORE EFFICIENCY IN USE

- Hoses protected against dirt and damage

OWN REMARKS

HOSE EQUIPMENT



PRODUCT FEATURES

With the hose equipment, it is very easy to connect additional attachments (fly-jib, rotator,...). The hoses are installed and protected in the hose tray.

MORE COST-EFFECTIVE IN USE

- System with energy chains (as of 12 meter tonnes)
- Large diameter for high displacements and less heat generation

OPERATOR-FRIENDLY

- Error free connectors as per EN 12999:2011

MAINTENANCE AND SERVICE FRIENDLY

- Through assembling the hoses in sections

OWN REMARKS

HOSE EQUIPMENT IN THE EXTENTION BOOM



PRODUCT FEATURES

As an alternative to a conventional hose equipment, cranes can be configured with a hose drum on the main boom. The "T4I" system is available for up to 4 hydraulic outriggers.

HOW IT WORKS

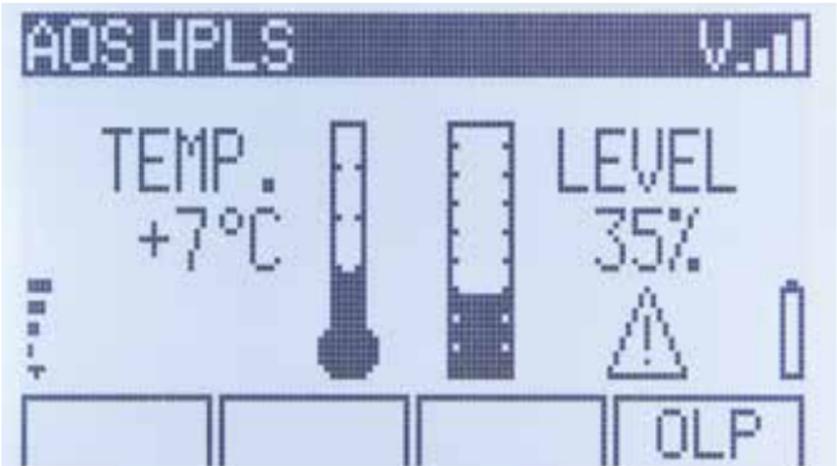
The hydraulic hoses are routed in the extension boom system and can be simply connected using quick-release couplings. The hoses in the extension system are therefore completely protected against damage.

MORE EFFICIENCY IN USE

- Protected installation of the hoses
- Hoses can be connected easily with quick-release couplings

OWN REMARKS

OIL LEVEL AND OIL TEMPERATURE DISPLAY



PRODUCT FEATURES

Through the oil level and oil temperature display, the crane operator is informed of the respective status.

HOW IT WORKS

Oil level display

At 25% of the total volume, a warning "Oil level low" appears.

An acoustic signal is also given.

At 20% of the total volume, the crane is switched off after the warning.

Oil temperature display

At 75° oil temperature, there are visual and acoustic warnings.

At 90° oil temperature, after the warning, there is a message that the crane will be switched off after five minutes.

SAFE CRANE OPERATION

- Protection against overheating of the oil and hence protection of the entire hydraulic system

OWN REMARKS

GEOMETRY CONTROL



PRODUCT FEATURES

Modern knuckle-boom cranes reach critical boom positions due to their complex geometry (multitude of hydraulic outriggers, reverse linkage system, and fly-jib). To increase operating convenience and avoid incorrect operations, PALFINGER expanded the existing upright position monitoring to include extensive monitoring of the whole working range (geometrically calculated).

HOW IT WORKS

The monitoring of the whole working range (geometrically calculated) adjusts the lifting power of the crane to the respective position of the main boom, knuckle boom and fly-jib and fulfils all the provisions of EN 12999:2011. As a complex overloading limitation, it detects all boom angles of the crane and activates an individual shut-off logic depending on the crane model and configuration.

SAFE CRANE OPERATION

- Automatic adjustment of the lifting power in critical boom positions
- Safe working possible up to 85° boom position
- Minimization of the risk of incorrect operations
- Automatic consideration of the fly-jib overextension

OWN REMARKS

SEQUENCE CONTROL



PRODUCT FEATURES

To achieve weight-optimized construction, several or all extension booms on a crane must have sequence control. This means that first the larger extension boom extends or retracts and only then the next smaller extension boom. The patented tube-in-tube sequence control with oil feed-through is technically the perfect solution to achieving a hose-free system.

Patent granted.

OWN REMARKS

EQUIPMENT



PRODUCT FEATURES

The PALFINGER range of equipment includes a multitude of devices and add-ons that considerably expand the scope of applications of the crane. Grippers, rotators, crane forks and much more are available. All accessories from the PALFINGER Equipment Centre are optimized to be added to the PALFINGER truck-mounted crane and are therefore the first choice. Besides an extensive range of standard products, special solutions are also available on request.

A GREAT VARIETY OF APPLICATIONS

- A crane can be used as a multipurpose work machine

OWN REMARKS

DIVERSE APPLICATIONS FOR DAILY USE



Rotator



Earth auger



Clamshell bucket HPXdrive



Digging bucket



Bulk material grab



Polyp grab



Barrier grab



Hydraulic wallboard forks



Crane fork



Brick stack grab



Manipulators



Workman basket



Bottle-bank discharge units



Car lifting devices



Hybrid drive

OWN REMARKS

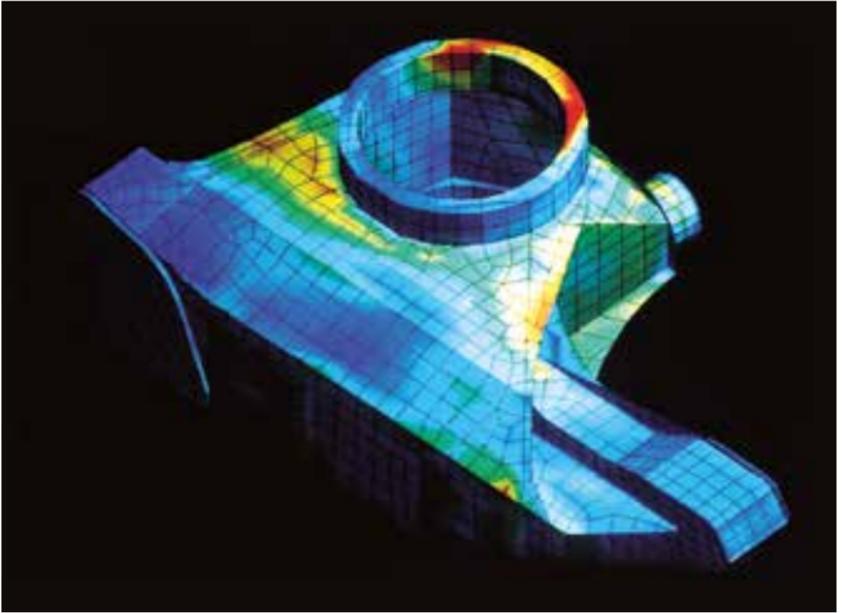
DEVELOPMENT



The foundation for a reliable and successful product is based in its design. Finite element calculations, field and endurance tests, DMS measurements and transport simulations ensure an optimum balance between weight and strength. At the new research and development centre in Köstendorf, interest is focused on topics like "ergonomics, functionality, weight and material optimization". Major involvement in the area of research and development, cooperation with universities and technical universities form the foundation for innumerable patents and innovations in the competence areas of the geometry of kinematics, electronics, painting technology, materials, processing and production technology.

OWN REMARKS

FINITE ELEMENT TECHNOLOGY

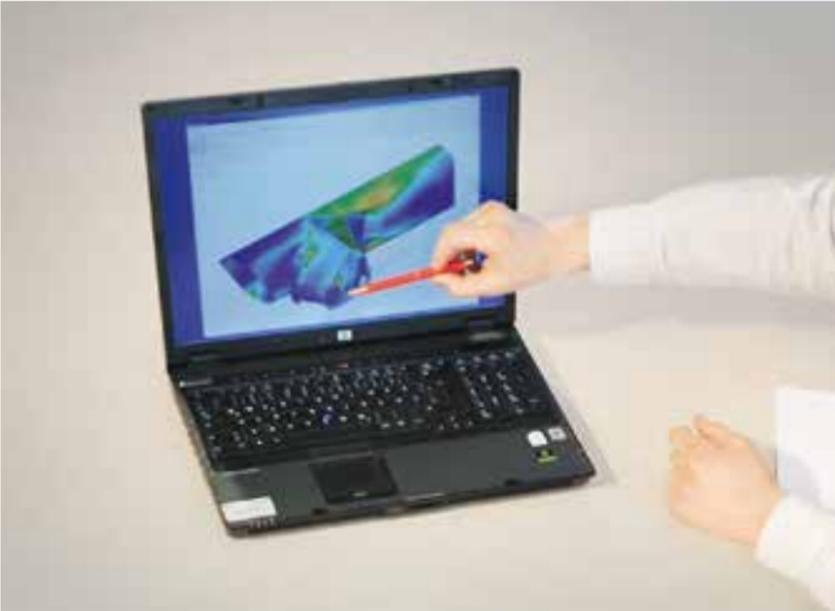


High-tech in crane design - all load-bearing components are calculated with finite element technology, which has been used for years. They are optimized and designed to be weight-saving. Years of development edge - PALFINGER's ideas are repeatedly copied and many of solutions developed by PALFINGER become the technical standard in crane construction over the years



OWN REMARKS

LIGHTWEIGHT DESIGN



PRODUCT FEATURES

Through using high-quality, high-strength steels and increased use of plastics and light metals, PALFINGER cranes are becoming increasingly light weight with the result of higher payloads and lower operating costs.

MORE EFFICIENCY IN USE

- Lower fuel consumption means lower costs
- Greater payloads
- Lower overall operating costs
- More lifting power

ENVIRONMENTAL FRIENDLINESS

- Lower fuel consumption means fewer emissions

OWN REMARKS

EXPANSION MEASUREMENTS, ENDURANCE TESTS, HYDROPULSER TEST BENCHES



By using expansion measurements and automatic endurance tests, PALFINGER cranes are tested for the expected service life even before the start of production and within a few months. The components are subjected to the harshest loads on modern hydropulser test benches to be able to offer top quality products. With this technology, it is possible for PALFINGER to optimize components to meet the harshest customer demands.

OWN REMARKS

„SHAKER” VIBRATION AND SHOCK SIMULATIONS



Electronic and hydraulic components on the truck-mounted crane are subjected to extremely high environmental loads. In the environment simulation lab, all electronic and hydraulic components are subjected to the respective test procedures.

In the vibration test system ("Shaker"), shock, vibration and broad-band noise tests are conducted according to international standards. These procedures simulate different road driving and pothole situations.



OWN REMARKS

CLIMATE EXPOSURE TEST CABINET

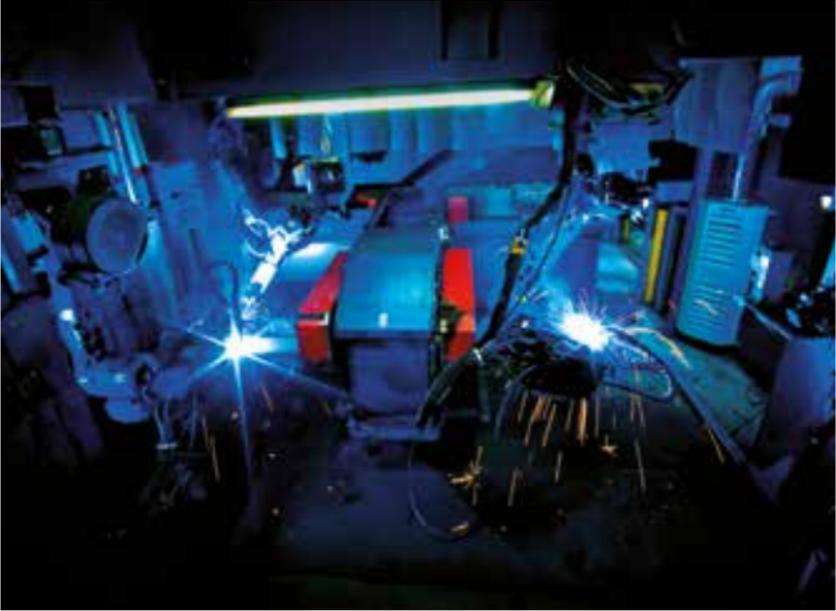


We test the most important components (control spool and electronic components) in the climate exposure test cabinet, which simulates tough, real conditions (extremely low and/or high temperatures, temperature fluctuations, air humidity,...).



OWN REMARKS

PRODUCTION TECHNOLOGY



The foundation stone for quality is laid in production. Through the specialization of component manufacturing in the individual PALFINGER production plants, PALFINGER optimizes its processes and thereby increased its productivity and quality. In the field of steel processing and machining, PALFINGER has the latest cutting, edging and welding technologies in its production sites. A highlight is the new, highly-automated hexagonal boom production in the Austrian plant in Lengau. Thanks to the new technology, high-strength steel can be processed and machined with extreme precision. Even the tiniest deviations in manufacturing are avoided and as a result even more exact crane movements are guaranteed. Following numerous modernization measures, the plant in Marburg now operates as a competence centre for the production of large components. With the cylinder production in Tenevo, PALFINGER has advanced and become the largest manufacturer of hydraulic cylinders worldwide.

OWN REMARKS

QUALITY MANAGEMENT



Our certified quality management system in compliance with ISO 9001 ensures process-reliable production and assembly and ensures the high quality of our products. In regular internal and external audits, we check the operation and reliability of our QM system.

Our testing systems conducted include:

- Goods received check
- The self-checking in the manufacturing process and
- Through a detailed final inspection, we monitor the high quality standard of our products

OWN REMARKS

ASSEMBLY AND TESTING



PALFINGER cranes are assembled in team manufacturing. And, before they leave the plant, they have passed a lot of tests. The highest quality standards require strict and meticulously accurate testing methods. Therefore, at PALFINGER, every crane passes through an extensive check on the test bench. With the help of special test software, successive execution of the stipulated testing steps takes place on the basis of specifically defined master test plans.

SAFE CRANE OPERATION

- Meticulous tests guarantee reliable and safe crane work

INCREASED RESALE VALUE

- Certified quality fetches higher resale values

OWN REMARKS

SERVICE AND TECHNICAL SUPPORT



With approximately 4500 sales and service bases worldwide, PALFINGER provides an extensive service network. The top trained personnel of our service partners and licensed workshops provide help quickly.

MORE EFFICIENCY IN USE

- Low failure rates
- Highest equipment availability

BEST SERVICE ORGANIZATION

- Best trained workshop employees
- High availability of spare parts
- Quick help in emergencies

OWN REMARKS

SALES AND PROJECT ENGINEERING



Experienced sales experts advise and support you when selecting a product and the configuration so that the loading solution matches your application conditions exactly. PALFINGER customers profit from sound superstructure competence. For optimum vehicle design, the calculation of axle loads, stability and sub-frames and in the end visualization of the superstructure, PALFINGER provides the right software to its dealer network before the sale.

MORE EFFICIENCY IN USE

- More payload through optimized vehicle configuration

SAFE CRANE OPERATION

- Safety through optimized superstructure calculation (axle load, stability calculations, and sub-frame calculation)
- Inclusion of country-specific traffic regulations

INCREASED RESALE VALUE

- Customer-specific truck bodies through long-standing know-how

SPARE PARTS SUPPLY



Several spare parts centers worldwide guarantee a seamless supply of spare parts - in Europe within 24 hours. The spare parts warehouse for the areas of Europe, South America and Asia are found in Lengau. On the average, around 1000 items are processed each day and handled competently and smoothly. The spare parts central warehouse for North America is in the PALFINGER plant in Niagara Falls / Canada. All original spare parts are tested and comply with the PALFINGER quality standard.

MORE EFFICIENCY IN USE

- Low failure rates
- Highest equipment availability

INCREASED RESALE VALUE

- Longer equipment service life thanks to the spare parts guarantee



PALSOFT AND EXTRANET



PALSOFT supports our dealers and customers in the sale, configuration and service of our products.

PALDIAG.NET and PACWEB: Programs for diagnosis and configuration of PALTRONIC and radio remote control

PACWIN.NET: Superstructure calculation program for determination of axle loads, stability and payload

PALSHOW.NET: Plant for showing payload curves and payload analyses

PAF: Program for vehicle frame calculation

PATIS.NET and PATIS-Online: Program for showing technical information sheets, spare parts catalogues, electrical drawings, service information, training documents, configuration guidelines, repair guides and repair times catalogue

PALREMOTE: Program for remote service and remote diagnostics

PALCHART: Program for creating payload charts for reduced working ranges



TRAINING PALFINGER UNIVERSITY



Exclusively qualified and competent customer service employees provide our service. They have become familiar with the latest technologies and regulations at the central PALFINGER University. Specialized trainers train the dealers on-site or at PALFINGER. The "Train the Trainer" training method guarantees efficient knowledge dissemination right down to the end customer. Ultramodern equipped training centers ensure modern, practical classes.

BEST SERVICE ORGANIZATION

- Worldwide competent help in the workshops
- The latest level of knowledge in technology
- Efficient knowledge transfer through "Train the Trainer" training
- Knowledge transfer through crane briefing

OWN REMARKS

WARRANTY



PALFINGER cranes are quality products.
PALFINGER guarantees maximum cost-effectiveness through three different warranty terms.

MORE EFFICIENCY IN USE

- 12 months, full warranty on all cranes
- 24 months warranty on radio remote controls
- 36 months warranty on all load-bearing parts of cranes that work in hook operation
- 24 months warranty on all load-bearing parts of cranes that work in gripper operation

- Warranty extension up to 24 months full warranty possible
- Warranty extension up to 36 months full warranty possible

OWN REMARKS

ENVIRONMENTAL PROTECTION



PRODUCT FEATURES

Environmental protection is very "big" at PALFINGER. Lightweight construction reduces the fuel consumption of the crane vehicle. The use of environmentally compatible and recyclable materials is a matter of course.

ENVIRONMENTAL FRIENDLINESS

- Chromium VI free coating of all small parts that require corrosion protection (pipe, screw connections and brackets)
- Use of water soluble finish coats in surface treatment
- Maintenance-free extension boom system, initial lubrication with food grade grease
- Biodegradable hydraulic oils (optional)

OWN REMARKS

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