

Valid for serial number

# INSPECTION BOOK HANDOVER MAINTENANCE SERVICE

**PALFINGER**

EN

PB001

1/2016

EPSILON TIMBER & RECYCLING CRANES

<https://cranemanuals.com>



## Preface

### Dear customer

Congratulations for purchasing a PALFINGER Product!

We are pleased with your decision to go for a high tech and high quality PALFINGER product.

With this book we want to ensure that

- the product has been **installed correctly and handed over** in proper condition;
- you have been **introduced** to the operation;
- the unit has been **checked** for proper function;
- the unit fulfils the high **quality guidelines** from PALFINGER;
- this quality is **kept on a high level** during all the product life.

This book shall be the “curriculum vitae” of the product. It gives fast and credible information about warranty data, can be used as evidence for completed periodic inspections (often necessary by local regulations) and informs about any modifications and repair works.

Additionally the book contains the handover certificate with the names of the trained operators.

It is of particular importance to know that any warranty claim can only be granted if the product has been maintained according to the service plan.

Due to this fact, all service and repair works (especially exchanges of main components) have to -be registered in the book with the respective operating hours.



**Note! Guarantee and warranty works may only be executed by authorized PALFINGER service partners. It is the service partner's responsibility to check whether a warranty claim is justified or not (for instance by checking the service book).**

We are convinced that our product meets your expectations and thank you for your trust in PALFINGER.



#### Service partner search

PALFINGER offers an extensive sales and service network to all customers.

PALFINGER products are serviced and maintained by professional and certified partners worldwide.

Under

<https://www.palfinger.com/en/emea/sales-and-service-search>  
the nearest service partner of PALFINGER can be found.

Also the mobile Service-App for Android and iOS can be downloaded from this page.



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Lifting forces and outreaches of the crane are shown in the technical data.

Type	<u>M125LC82</u>	Truck manufacturer	_____
Serial number	<u>1100001219</u>	Truck model / type	_____
Construction year	_____	Chassis number (Vin)	_____
Equipment	_____	_____	_____
Categorization	_____	Construction year	_____

Equipment	Type	Equipment number	Delivery date
Fly-Jib	_____	_____	_____
Workman basket	_____	_____	_____
Additional stabilizer	_____	_____	_____
Pump	_____	_____	_____
Grab	_____	_____	_____
Pallet fork	_____	_____	_____
Rotator	_____	_____	_____
Installation	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Rope winch	_____	_____	_____

Gearing group 1Bm / M3 according to FEM 1.001 and DIN 15020

**2 Warranty Registration**

Warranty registration is a requirement for warranty claims.  
Registration is done by the PALFINGER partner, based on the data on this sheet.

<b>The mentioned product has been handed over to the customer in proper condition.</b>			
<b>Customer</b>	Name	_____	
	Address	_____	
	Email	_____	
<b>Warranty</b>	Date of handover	_____	
	Warranty time of producer	_____	months
	Warranty extension from PALFINGER partner	_____	months
<b>Utilization</b>	<input type="checkbox"/> Front installation	<input type="checkbox"/> Hook application	<input type="checkbox"/> up to 2 h / day
	<input type="checkbox"/> Rear installation	<input type="checkbox"/> Grab application	<input type="checkbox"/> up to 4 h / day
	<input type="checkbox"/> Stationary installation	<input type="checkbox"/> Winch application	<input type="checkbox"/> up to 8 h / day
	<input type="checkbox"/> Trailer installation	<input type="checkbox"/> Construction / dry wall fork	<input type="checkbox"/> over 8 h / day
<i>By signing, the end customer expressly agrees to the data protection declaration overleaf.</i>			
End customer:		PALFINGER Partner:	
_____		_____	
Date / Stamp / Signature		Date / Stamp / Signature	

**Data protection declaration**

The customer agrees to his/her personal details used above being processed for conducting the contractual relationship. The customer further agrees to this data being sent to PALFINGER AG, Lamprechtshausener Bundesstraße 8, 5101 Bergheim, Austria and processed by the latter. Such processing shall be solely for the following purposes:

- central operation of a customer / product master data and CRM system for utilization by PALFINGER AG and the PALFINGER contract partner named below;
- conducting surveys and studies into customer satisfaction and customer needs (market research);
- taking measures related to product safety (e.g. product improvement measures, replacements, recalls);

The customer can revoke this agreement at any time in writing by letter to PALFINGER AG.

**3 Guarantee information**

PALFINGER grants its contracting partners (in the case of a direct sale the end customer, otherwise dealers or other resellers) a guarantee on the products sold. In the case of any selling on, PALFINGER holds its contract partners to passing on the guarantee conditions granted to the end customers as a minimum standard and to supporting the handling of the guarantee in a professional manner at all times. For PALFINGER's part, the company provides the following guarantee conditions:

- **Guarantee period** for the PALFINGER product:
  - 12 months or 1000 operating hours full guarantee; and
  - 24 months or 2000 operating hours guarantee on load bearing parts;
  - 36 months or 3000 operating hours guarantee for material costs (excluding worktime) for load bearing parts, excluding grab housing and grab arms



- **Other prerequisites** for making successful guarantee claims are:
  - a. The professional setting up of the product as per PALFINGER assembly guidelines.
  - b. The presence of undamaged and correct seals on the product.
  - c. Adherence to and proper documentation of the prescribed servicing intervals as per the service manual and/or operating instructions.
  - d. The use of original replacement parts bought via the PALFINGER sales channel.
- Guarantee claims cannot be made in the case of:
  - a. Force majeure;
  - b. Improper handling of the PALFINGER product;
  - c. Using the PALFINGER product other than intended;
  - d. Unauthorized modifications to the PALFINGER product and/or to its electronic or hydraulic settings;
  - e. Incorrect repair of the PALFINGER product;
  - f. Deficient or incorrect maintenance of the PALFINGER product (i.e. not in accordance with the stipulations of the servicing schedule; see service manual and/or operating instructions);
  - g. The customer being at fault;
  - h. Failure to follow any product upgrade programs that were prescribed by PALFINGER;
  - i. Non-adherence to the operating instructions.
- Based on its obligations as a dealer, the PALFINGER dealer must **take on every defective product case**, carry out the guarantee and warranty work and submit the guarantee claim to PALFINGER.
- It is of course possible for the contract partners to grant **more far-reaching guarantee rights**. However, PALFINGER shall not be directly responsible to the end customer for these more far-reaching rights. PALFINGER shall in particular have no liability for any lost profits, simple pecuniary losses or consequential losses (e.g. missed earnings, downtime, travel allowances, lost profit, transfer costs, replacement vehicle, etc.) or any other direct or indirect losses.

The above remarks do not constitute any legally binding guarantee or other undertaking towards the end customer by PALFINGER, but rather serve solely to provide information on the guarantee rights regularly granted in individual cases by PALFINGER to its contract partners on a legal basis differing from this.

## 4 Handover

### 4.1 Notes regarding the hand over guideline

This guide line includes recommended steps for a successful crane handover to the end customer / operator.

The document is structured into a preparation part, a practical handover part and a part for the end of the handover process.

Steps, which are not applicable during the handover (e.g. because of optional equipment, not available on this model) shall be marked with an , completed steps shall be marked with an .

The time required for handover varies by crane model, equipment, installation, experience of operators and the number of operators present.

The general range for handover is 1 to 5 hours.

The handover confirmation (chapter 4.7) stays in this book with the end customer (this document).

A copy or scan of the confirmation shall be kept with the company providing the handover.

It confirms the carried out hand over and instruction on the unit.

**Information!**

Local regulation or law may require a certified training for crane operators to perform crane works. This handover process is never part of such training. There are no such training contents included in this document.

## 4.2 Handover preparation

**Information!**

This checklist shall be a confirmation to the installer that all preparation work has been carried out and all necessary gear and equipment is prepared for a successful hand over process.

### Things to check at the vehicle/crane

- Make sure that everything starts up correctly and that you are familiar with the PTO start-up and other installation specific equipment.
- Make sure, that all settings and checks have been carried out properly (stability test, ISC, SHB, HPSC) and that all documentation has been prepared (especially the PALCHART print out at ISC, SHB and HPSC installations with ISC, SHB and / or HPSC).
- Carry out a functionality check on additional order codes (AOS, DPS, boom angle monitoring system, geometry control system, ISC, SHB, HPSC).
- Double check the functionality of the overload protection system (including boom angle monitoring system, if applicable) and make sure you are able to operate the machine properly.

### For the handover you need

- A scheduled date for the handover with enough time to go through the process professionally
- Enough space to run the equipment properly
- A proper load to lift
- Suitable slingers, attachment to lift the load

### From the crane additional kit

- PALFINGER document wallet with the following documents
- Service and maintenance manual (this document)
- Operating manual
- Remote Control handset with charged battery (if applicable)
- CE-conformity declaration or equivalent document (in this book)

### From the office

- Business card(s) of the customer relevant contact person(s)
- Camera
- Laptop with charger and Paldiag Software (if needed)
- Load cell (if needed)



**Information!** Here starts the physical hand over process together with the customer. Explain to the customer/user, why a professional and detailed hand over process is important. The operating manual as well as the operator DVD have to be explained before the practical part gets carried out.

### 4.3 Operating manual

Explain the operating manual to the customer. The following points are most important:

- The manual has to be read and understood before starting the unit.
- The manual has to remain in the cab of the truck all times.
- Explain briefly the content of the manual (including load capacity diagrams).
- Especially explain all shown safety warnings.

### 4.4 Hands on familiarization



**Information!** This section has to be carried out together with the customer / operator. It shall be an explanation of the systems as well as a practical familiarization of the machine. The different points are also explained in the operating manual, which have to be read and understood by the customer / operator before starting to use the machine

#### Preparation:

- Explain the (main) parts of the crane (support, base, column, boom system, main equipment).
- Explain and show the location of the main switches and fuses.
- Operator controls: Point out all manual and RRC controls.
- Position the truck at an appropriate place. Show how to switch on the PTO. Explain special things like gear-locks if applicable.
  
- General rules while using a crane.
  - Keep moving parts in sight at all times.
  - Use of a signal person, if necessary.
  - Inspection prior to use on a daily basis (damages, maintenance).
  - Proper use of the machine / limits of the machine (operating manual).

- Explain special risks (injury, accidents) of crane operation.
  - Dangerous areas during setting up or using a crane.
  - Generally when operating the crane.
  - In case of inappropriate use of supports.
  - While folding and unfolding the crane.
  - In case of inappropriate use of manual extension booms.
  - In case of inappropriate use of rope winch, workman basket and other equipment.
  - Safety warnings when using crane in "emergency mode".
  
- Explain all operator controls (manual and RRC).
  - How to use the transmitter, carrying belt.
  - Explain all switches on the operator controls, especially special functions (RRC stabilizers, dead man button, holding function, engine start-stop, rpm-settings).
  - Explain how to use charger and batteries.
  - Explain and show the location of the error code display(s).
  - Explain the LED feedback or graphic display of the RRC transmitter.
  - Explain all menu functions in case of graphic display.
  - Explain the function of all levers, buttons, displays, safety devices and all control stands (ground control, top seat, high stand).
  
- Explain, show and let the trainee(s) carry out the correct support of the machine.
  - Inform about keeping the wheels on ground during operation, explain the locking of tiltable stabilizers.
  - Especially explain the dangers and the proper use of tiltable stabilizers.
  - Explain necessary things to monitor when crane is supported (e.g. lowering of air suspension system).
  - Inform about proper ground surface and inclination of the vehicle to guarantee a safe crane operation (refer to operating manual). Explain the dependency of the boom position (boom angle monitoring system → refer to operator manual). Explain possible danger if it is not observed.
  - Give quick information about the stability monitoring system (if applicable).
  - Explain the use of radio controlled stabilizers (if applicable).
  
- Explain, show and let the trainee(s) carry out the correct unfolding of the crane
  - Especially explain the correct position of the operator when manually unfolding the crane.

## Crane operation:

**Information!**

The following section contains the correct operating of the machine. All points shall be first shown and explained to the trainee(s). Then the trainee(s) shall carry out the different functions. After this, each trainee (customer, operator) signs that he has been explained and understood the functions of the machine.

- Explain all emergency cut off systems of the unit.
- How to lift the load correctly (observe the risk of getting trapped, keep load in sight, never step below a lifted load).
  - Refer to the operating manual that describes this point in more detail.
- While working with the load explain the following things:
  - How to read the load chart correctly
  - Overload protection system OLP
  - Overload protection system Paltronic 50, with HPLS, LED-display
  - Geometry monitoring
  - How to handle overload in steep boom position, refer to load capacity chart. Explain the influence of vehicle indication and stabilizer usage.
  - Reduced load limits (e.g. SHB; ISC)
  - Limited working areas (high stand limitation, cabin protection)
  - AOS (active oscillation suppression system)
  - Load holding valves, return oil utilization system
  - Transport position monitoring of stabilizers
  - Transport position monitoring of boom system
- Single telescope:
  - Adjusting the lateral sliding elements
- Double telescope:
  - Lubricating the two chains (oil tank for inside chains)
  - Tightening the chain (maximum chain slack 1.5 cm)
  - Adjusting the lateral sliding elements
- Crane operator protecting system:
  - Explanation how the EPSHOOD crane operator protecting system works and how to operate it correctly
  - Demonstration of the two possible positions of the crane operator protecting system
- Cradle type plate link:
  - Explanation of the system in the supplied operating instructions
  - System maintenance (lubrication, venting)

- Easy Fold:
  - Explanation of the operating panels
  - Practical demonstration of the system
  
- Telescopic main boom:
  - Practical demonstration of the system (working position)
  
- Pendulum brake:
  - Explanation of the system
  - System maintenance (If braking power is too low, it is not allowed to re-tighten the adjuster, in such a case contact your PALFINGER partner.)
  
- AS180:
  - Explanation of how AS180 works and how to operate it correctly
  
- N7:
  - Indication of 7° safety shut-down
  
- SLP:
  - Indication of positions where the respective SLP hoses are installed
  
- ZS:
  - Explanation of how central lubrication works and how to lubricate correctly
  
- HPLS:
  - Explanation of how HPLS function works and how to operate it correctly
  
- WH:
  - Explanation of how the water heater works and how to operate it correctly according to operating instructions
  
- DH:
  - Explanation of how the diesel heater works and how to operate it correctly according to operating instructions
  - Where is servicing possible? Webasto service points?
  
- AC:
  - Explanation of how the air-conditioning system works and how to operate it correctly according to operating instructions
  - Where is servicing possible? Webasto service points?

- KLP:
  - Explanation of how cabin lift position monitoring works
  
- KCA / KCHKS / KCH / KCE:
  - Explanation of how cable remote control works and how to operate it correctly
  
- HPSC / HPSC:
  - Explanation of how it works (including overload, starting the system through time relay override, etc.)
  - Explanation of the operating panels
  
- CERM / CERL:
  - Explanation of how it works including overload
  - Explanation of the operating panels
  
- SCMD:
  - Explanation of how it works including overload
  - Explanation of the operating panels
  
- SCRCD:
  - Explanation of the operating panels (switching RC from manual or crane operation over to support operation, overload)
  - Ultrasonic sensor blocks the working area above the high stand platform.
  
- RCE:
  - Explanation of the operating panels (RC, switching from crane operation to support operation, overload)
  
- HMDH:
  - Explanation of the operating panels and all buttons with the help of the operating instructions
  - Explanation of correct maintenance procedures of joysticks and pedals
  
- HCDH:
  - Explanation of the operating panels and all buttons with the help of the operating instructions
  - Mode of operation of the crane operator protecting system
  
- CAM:
  - Explanation of the operating panels
  - Explanation of the diesel or water heater  
Where is servicing possible? Webasto service points?
  - Explanation of the cabin lift (emergency lowering, maintenance, adjustment of sliding elements)



- CAH:
  - Explanation of the operating panels with the help of the operating instructions
  - Explanation of the diesel or water heater  
Where is servicing possible? Webasto service points?
  - Explanation of the cabin lift (emergency lowering, maintenance, adjustment of sliding elements)
  
- CAE:
  - Explanation of the operating panels with the help of the operating instructions  
What items of information get shown on the display?  
Which parameters can be set by the final customer?
  - Explanation of the cabin lift (emergency lowering, maintenance, adjustment of sliding elements)
  
- CAEXL:
  - Explanation of the operating panels with the help of the operating instructions  
What items of information get shown on the display?  
Which parameters can be set by the final customer?
  - Explanation of the diesel or water heater  
Where is servicing possible? Webasto service points?
  - Explanation of the cabin lift (emergency lowering, maintenance, adjustment of sliding elements)
  
- Using additional equipment:
  - Hose equipment, quick couplings, multifaster
  - Grab use
  - Demountable rear console (show how to mount and demount)
  - Function of other equipment, which is: \_\_\_\_\_
  
- Other customer-specific systems; proper working procedures
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

**Maintenance**

- Information about first service (50 h) at a PALFINGER service partner
- Oil and filter change
- Check points of oil the crane (hydraulic oil, gear oil)
- Show greasing points, how to carry out greasing, what to grease and what not to grease (e.g. maintenance free boom system)
- Function of central greasing system
- Crane cleaning (also before maintenance and repair works)
- Show where to find information about service and maintenance in the service manual
- Function and location of hour meter
- Information about regional or country-specific requirements, regulations (required periodic inspections)

**Emergency control, how to handle errors**

- How to operate the emergency controls (e.g. OLP function, emergency power pack)
- Electric power failure
- RRC failure
- Error code on Paltronic and RRC system
- Inform about which data are necessary if an error cannot be handled by the customer and a service partner has to be contacted (equipment number, error codes, error description)
- Inform about the position of the type plate and which data can be found there (required in case of contacting a service partner)

**Service partner / contact person**

- Hand over the contact data of the person to contact in case of problems e.g. Service Hotline.
- Show stickers or other information on the machine with contact details

**End of hands-on familiarization**

- Fold crane (to be done by the trainee).
- Secure crane, equipment and load (to be done together with trainee).
- Put crane support in transport position, secure stabilizer plates, switch off PTO.
- Final visual inspection; check the complete vehicle if everything is ready for transport (e.g. additional equipment, stabilizers, locks).

## 4.5 Completion of the handover

**Information!**

This point is meant again to explain the importance of a correct and safe crane operation. It is also the time to answer final questions from the customer / operator.

### Warranty

- Explain guarantee and warranty guidelines
- Explain warranty periods
- If a warranty extension has been sold, explain what it means and which things are included
- No warranty is granted if the warranty start of the crane is not registered and if the crane is not serviced and maintained according to the PALFINGER guidelines.
- Not included is downtime, consumables (e.g. oil and filter, grease) as well as wear pads and damages caused by the operator

### Training

- Explain training possibilities for operators, local courses
- Again inform about local regulations about crane operation, maintenance and inspection (e.g. crane operator license, road regulations ...).

### Hand over the following documents

- Delivery note
- CE-conformity declaration or manufacturers declaration (in this book), other certificates
- Operating manual
- Spare parts catalogue (if applicable)
- Country-specific documents
- Printout of PALCHART results (at SHB, ISC and HPSC models)
- Inspection book, Handover, Service and Maintenance manual (this book)
- Additional equipment (transmitter, second battery ...)

### Open Questions

- Answer or clarify all open questions of the trainee (customer / operator)




**4.6 Handover confirmation**

<b>Crane model :</b>	M125LC82
<b>Serial number :</b>	1100001219
<b>Customer / Company name :</b>	
<b>Name of the person who did the handover :</b>	
<b>Installer / Dealer :</b>	
<b>Date :</b>	

The following operators were familiarized with the operation of the crane, according to the recommendations set forth in this guideline.

(Name of operator)	Owner of a crane operator license (if applicable) <input type="checkbox"/> yes <input type="checkbox"/> no
(Name of operator)	Owner of a crane operator license (if applicable) <input type="checkbox"/> yes <input type="checkbox"/> no
(Name of operator)	Owner of a crane operator license (if applicable) <input type="checkbox"/> yes <input type="checkbox"/> no
(Name of operator)	Owner of a crane operator license (if applicable) <input type="checkbox"/> yes <input type="checkbox"/> no

End Customer / owner name (please print)	Signature:
PALFINGER Partner (please print)	Signature:

 <p><b>Information!</b> The handover training is only a familiarization process for the customer / operator. It does not replace an eventually locally / by local regulation / law required crane operator training. It is still required that the customer reads and fully understands the operator manual before using the machine.</p>
--

ORIGINAL stays with CUSTOMER / OWNER!
Keep a COPY or a SCAN at the PALFINGER partner!



## 5 Initial delivery

### 5.1 Advice for initial delivery

With the initial delivery the unit is put into the market.

Prior to the initial delivery and during the delivery process, the PALFINGER partner has to carry out the following steps:

- Correct installation of the unit according to the PALFINGER installation guidelines
- Correct setting of the unit (depending on its configuration; e.g. stability monitoring system)
- Function check of the complete unit
- Stability test of the unit (complete vehicle) according to regulations (e.g. CE, local)
- Registration of warranty start and customer data
- Handover of the unit to the customer according to the handover guidelines
- Pre delivery inspection of the machine according the check list
- Registration of the pre delivery inspection

All inspections and service work has to be carried out under consideration of the laws, norms and regulations of the destination country (country where the machine unit gets used)!

### 5.2 Registration of pre delivery inspection

<h1 style="margin: 0;">Pre delivery inspection</h1> <p style="margin: 10px 0;">The inspection was carried out according to _____ (norm, section).</p> <p style="margin: 10px 0;">There were no issues found.</p>		
Crane type:	Serial number:	Truck type: _____
Palfinger Partner:		Customer:
Date / Stamp / Signature		Date / Stamp / Signature





## 6 Inspection, Maintenance, Service

### 6.1 Periodic Service

The inspection check list of this chapter shall be used as a guideline/template for the following maintenance and repair work:

- Template for pre delivery inspection
- Template for periodic inspections (according to local regulations, incl. UVV)
- Check after unanticipated workshop visits and repair work
- Check after completing significant changes (all types of modifications on the machine)
- Special occasions (e.g. heavy overloading, accidents)

### 6.2 Correct handling of the inspection check list

The inspection check list of this chapter is meant to be a template and is available for PALFINGER partners on the PALFINGER web based documentation platform.

#### Correct use of the list

- The „Inspection check list“ is a master document, it is valid for all inspections during the life time of the unit.
- The mentioned topics have to be carried out step by step, not applicable points have to be marked respectively.
- Every topic to check has a check number.
- All topics can be marked according to the performed check.
- Corrective actions can be explained under the field “remarks” and shall be mentioned also in the respective page “certification of service works” under the point “remarks to check points”
- The most recent filled out checklist has to be carried with the machine documents.
  
- All service work and inspections have to be registered in the pages “certification of service works“. The following important information has to be written and certified (stamp and signature) by the PALFINGER partner.
  - Date
  - Operating hours of the unit
  - What has been done
  - Remarks to check points with reference to the point number
  - Annotation of changed components or kits

### 6.3 Service intervals

In general it is the responsibility of the owner to initiate periodic inspections.

PALFINGER dictates the following periodic inspections for loader cranes:

- After the first 50 operating hours (initial service)
- Every 1000 operating hours
- At least once per year

If local regulations dictate more or additional inspections those have to be carried out as well.

Periodic inspections have to be carried out by PALFINGER partners and include the check of all points mentioned on the inspection check list.

Every inspection as well as unintended workshop visits or repairs have to be registered in the pages "Certification of inspection / service performed".

### 6.4 Periodic inspections

"Periodic inspections" are legally required in various countries are sometimes carried out under the observance of or by local authorities or other authorized parties.

These inspections certify that the unit meets the local requirements and can be further used.

The frequency of the inspections depends on local regulations or laws. It is always the responsibility of the owner to initiate periodic inspections.

PALFINGER recommends the inspector to check the functionality of overload limitation systems and stability monitoring systems with the help of the PALCHART print out and the therein mentioned steps for "periodic inspections".

With the help of this printout it is possible to test different working positions (including positions without fully deployed stabilizer conditions). In this way it is possible to verify all different load limitation and stabilizer monitoring systems without modifying any of the limits.

Crane type _____ M125LC82	<h1>Check list</h1>	Date _____
Serial no. _____ 1100001219	The check was carried out according to	Operating hours _____
Truck type _____	§ _____ (norm, section)	
Chassis no. _____		

Number	Description	Interval						Mark the xxx		
		Not applicable	50h	All 1000h	Other	OK	Defect	Performed		
								Maintained	Changed	Repaired
<b>1</b>	<b>Warning signs, decals</b>									
1.1	Type plate									
1.2	Load capacity diagram									
1.3	Warning signs, mandatory and prohibition signs									
1.4	Function related signs and symbols									
<b>2</b>	<b>Documentation</b>									
2.1	Inspection book									
2.2	User manual									
2.3	CE Certificate / manufacturer declaration									
2.4	Last inspection protocol, check list									
2.5	Spare part catalogue									
2.6	Certificates for slingers, load attachments									
<b>3</b>	<b>Crane installation</b>									
3.1	Installation									
3.2	Tightening torque of mounting bolts									
3.3	Mechanical stop									
3.4	Subframe									
3.5	Demountable bracket									
<b>4</b>	<b>Climbing aids, steps, elevated controls</b>									
4.1	Ladders, climbing aids									
4.2	Cabin protection									
4.3	Top seat, high stand									
4.4	Top seat control switch									
4.5	Crane cabin									
<b>5</b>	<b>Pump and power take off (PTO)</b>									
5.1	Hoses and installation									
5.2	PTO switch, warning devices and locks									
<b>6</b>	<b>Hydraulic tank, oil cooler, filters</b>									
6.1	Damage, leakage, filling quantity, oil change									
6.2	Installation, band clamps									
6.3	Filter									
6.4	Hydraulic oil cooler									
<b>7</b>	<b>Control valves</b>									
7.1	Leakages									
7.2	Correct setting and sealing of main relief valve									
7.3	Smooth running of control elements									
7.4	Operating signs									

Number	Description	Not applicable	Interval			OK	Defect	Remarks	Solving		
			50 h	All 1000h	Other				Maintained	Changed	Repaired
<b>8</b>	<b>Outriggers and stabilizers</b>										
8.1	Outrigger interlock										
8.2	Outrigger tolerances, smooth running, signage										
8.3	Stabilizer ram mounting, condition and function										
8.4	Stabilizer plate, stabilizer extensions										
8.5	Tiltable stabilizer bearing and locking										
8.6	Tiltable stabilizer – auxiliary cylinder, chain, gearbox										
8.7	Stabilizer and outrigger signal										
8.8	Stabilizer warning lights										
8.9	Transport position monitoring										
<b>9</b>	<b>Crane base (slewing cylinders)</b>										
9.1	Steel construction, tightness of slewing cylinders										
9.2	Greasing of base and slewing system										
9.3	Slewing tolerance										
9.4	Column tolerance										
9.5	Balance bearing										
<b>10</b>	<b>Crane base (continuous slewing system)</b>										
10.1	Steel construction, turntable, slewing gear										
10.2	Greasing of turntable and bevel										
10.3	Tightening torque of turntable bolts										
10.4	Slewing tolerance, column tolerance										
10.5	Rotary distributor, slip ring, condition, mounting										
10.6	Slewing gear, gear oil										
10.7	Balance bearing										
<b>11</b>	<b>Column, main boom, knuckle boom</b>										
11.1	Steel construction										
11.2	Greasing of bushings										
11.3	Wear and tolerances of pins, bushings										
11.4	Transport position bracket										
11.5	Condition of load holding valves on main and outer boom										
11.6	Lowering rate of boom system										
<b>12</b>	<b>Extension boom systems</b>										
12.1	Steel construction, lifting lug										
12.2	Vertical boom tolerances, condition of guide pads										
12.3	Horizontal boom tolerances, condition of guide pads										
12.4	Lubrication / Maintenance free										
12.5	Extension boom cylinder, guidance, bearing										
12.6	Hydraulic function, sequence control										
12.7	Load holding valve, return oil utilization										
<b>15</b>	<b>Hose equipment</b>										
15.1	Condition of hose equipment										
15.2	Steel construction										
15.3	Greasing of bushes										

Number	Description	Not applicable	Interval			OK	Defect	Remarks	Solving		
			50h	All 1000h	Other				Maintained	Changed	Repaired
<b>16</b>	<b>Additional equipment</b>										
16.1	Pins, securing, connections										
16.2	Rotator										
16.3	Mechanical function of additional equipment										
16.4	Hydraulic and electric function										
<b>20</b>	<b>Remote control system</b>										
20.1	Handset										
20.2	Receiver, cable mode										
20.3	Battery charger										
<b>21</b>	<b>Electrical functions, load test</b>										
21.1	Wiring, junction boxes, electrical components										
21.2	Emergency cut off system										
21.3	Overload protection system										
21.4	Stability control system										
21.5	Load test										
21.6	Additional electrical functions and systems										
21.7	Error memory										
21.8	Reset hour meter (service)										
<b>22</b>	<b>Miscellaneous</b>										
22.1	Protection plates, covers										
22.2	Hydraulic hoses										
22.3	Protection hoses										
22.4	Others										
<b>23</b>	<b>Additional points, remarks</b>										
23.1											
23.2											
23.3											
23.4											
23.5											
PALFINGER partner / tester:		Noted by customer:									
Date / Stamp / Signature		Date / Stamp / Signature									



## 7 Service

<b>Confirmation inspection / service work performed</b>		<input type="checkbox"/> Pre delivery inspection <input type="checkbox"/> Periodic inspection <input type="checkbox"/> Scheduled service <input type="checkbox"/> Workshop visit / repair
The inspection was carried out according to _____ (norm, section)		
Date _____ Operating hours _____ h		
Checkpoint No.	Remarks to checked points	Changed components
Further use of the unit is <input type="checkbox"/> allowed <input type="checkbox"/> not allowed  Retesting is <input type="checkbox"/> necessary <input type="checkbox"/> not necessary	PALFINGER Partner / Tester:   <hr style="border-top: 1px dashed black;"/> Date / Stamp / Signature	Noted by customer:   <hr style="border-top: 1px dashed black;"/> Date / Stamp / Signature

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### 8 Change of ownership

PALFINGER crane :	M125LC82
Serial number :	1100001219
Date :	

We herewith confirm that the technical data of the crane are in accordance with the given data (information, measurements, weights, functions) in this service manual.

Seller	Buyer
Date / Stamp / Signature	Date / Stamp / Signature

Remarks

.....

.....

.....

.....

.....

PALFINGER crane :	M125LC82
Serial number :	1100001219
Date :	

We herewith confirm that the technical data of the crane are in accordance with the given data (information, measurements, weights, functions) in this service manual.

Seller	Buyer
Date / Stamp / Signature	Date / Stamp / Signature

Remarks

.....

.....

.....

.....

.....



## **9 Additional documents, certificates**

### **9.1 Certificates**

This chapter contains the production declarations for this machine from the manufacturer.

If the machine has been produced in accordance with the CE regulations, the CE conformity declaration is attached.



**ORIGINAL EC Declaration of Conformity**



EPSILON hereby declares that



the loader crane:

**M125LC82**

with serial number:

**1100001219**

complies with the **Machinery Directive 2006/42/EC** and the **EMC Directive 2014/30/EU** as they stand.

Following standards were used in the dimensioning and fabrication of the product:

**EN ISO 12100**

**EN 12999**

The signatories are also authorised to prepare the technical documentation.

Commissioning is prohibited until it is proven that the unit is installed according to the PALFINGER installation guidelines and the instructions of the truck manufacturer. The complete machine (truck and unit) has to be conform according to the below written conformity declaration. Furthermore the crane operator must be adequately trained and informed about the proper operation of the unit.

**EPSILON Kran GmbH**

Christophorusstraße 30  
A-5061 Elsbethen-Glasenbach  
Tel. +43 (0)662 62 95 48-0  
www.palfingerepsilon.com

Ing. Johannes Steindl  
Chief Executive

Elsbethen-Glasenbach, 2019-09-18 (Duplicate)

**EC Declaration of conformity** (section 2)  
(for assembly of machinery)

The body builder hereby confirms that the installation of the above mentioned product including all necessary equipment (see PALFINGER inspection log book master sheet) and extra attachment parts

on vehicle type:

with chassis number:

conforms to the provisions of **Machinery Directive 2006/42/EC** and of **EMC Directive 2014/30/EU**.

The following standards were used for the installation of the entire machine:

**EN ISO 12100**

**EN 12999**

**ISO 9606**

The signatory is also authorised to prepare the technical documentation.

Company stamp of the body builder

\_\_\_\_\_  
Signature of the body builder

\_\_\_\_\_  
Place and date

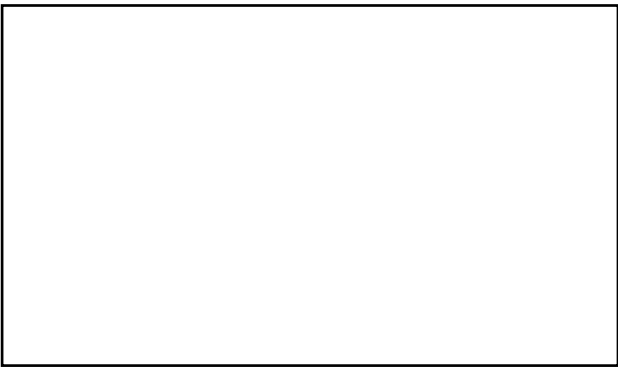
# ORIGINAL EC Declaration of Conformity

(Form relating to the entire machine)

Use this form instead of section 2 of a PALFINGER product-specific CE declaration, if the installation includes several products.



The body builder hereby confirms that the installation of the product specified below including all necessary equipment (see PALFINGER inspection log book master sheet) and extra attachment parts



Company stamp of the body builder

Product name / type	Product / manufacturer	Serial number
M125LC82	Loader crane (Epsilon)	1100001219

conforms to the provisions of **Machinery Directive 2006/42/EC** and of **EMC Directive 2014/30/EU**.

The following standards were used for the installation of the entire machine:

EN ISO 12100	EN 12999	ISO 9606	

The signatories are also authorised to prepare the technical documentation.

Company stamp of the body builder

\_\_\_\_\_  
Signature of the body builder

\_\_\_\_\_  
Place and date





**PALFINGER**

**EPSILON Kran GmbH**  
Christophorusstraße 30  
A-5061 Elsbethen-Glasenbach  
Tel.: +43 (0)662 62 95 48-0  
E-Mail: [epsilon@palfinger.com](mailto:epsilon@palfinger.com)  
[www.palfingerepsilon.com](http://www.palfingerepsilon.com)