

LOADER CRANES

CRANE TOOLS

LIFETIME EXCELLENCE



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PALFINGER CRANE TOOLS EQUIPMENT FOR PROFESSIONALS

We know – our customers are professionals, and professionals are only satisfied with the best tools.

Our mission is to give you the tools that make your job faster, more efficient and safer. We want you to enjoy working with your crane and tools, and to be happy when you get into your vehicle when the job is done.

This feeling can only be achieved with a reliable tool that is perfectly matched to the loader crane and application. The Palfinger loader crane equipped with the tools from this catalog - the perfect PALFINGER Solution.



VERSATILE APPLICATIONS

Equipped with the right tool, the crane is multifunctional and economical. Whether hydraulically or mechanically – PALFINGER offers a comprehensive range of additional equipment to make the loader crane a flexible and versatile tool.



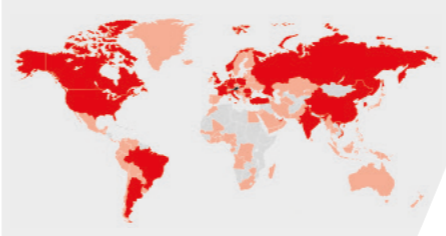
INDIVIDUAL SOLUTIONS

Special jobs require special tools. To ensure your success – no matter how complex your job is - we offer not only numerous established special equipment but also the opportunity for individual solutions. Contact us and we will find the best solution together.



MAXIMUM SAFETY

We are the leading supplier on the market since years who offers a complete package of crane and workman basket which fulfils the high safety requirements of the EN 280 standard. This saves time and costs when first registering a new crane vehicle.



SERVICE AND TECHNICAL SUPPORT

With around 4500 sales and service centers worldwide, PALFINGER offers a nationwide service network. The highly trained staff of our service partners provide prompt help.



SPARE PARTS SUPPLY

Several spare parts centers worldwide guarantee a complete supply of spare parts . All original-spare parts are tested and fulfill the PALFINGER quality standard.



SERVICE CONTRACTS

To optimize your business performance by reducing machine downtime and repair costs, we offer you PALFINGER service contracts in 4 different packages, from 1 to 6 years.



REQUIREMENTS FOR THE CRANE



	WORKMAN BASKET (EN280)	MFA-JIB	GRAPPLE	BRICK STACK GRAPPLE	FORK (HYDRAULIC)	DISCHARGE UNIT	EARTH AUGER	BARRIER LIFTER	HYDRAULIC HOOK	CAR LIFTING DEVICE	MANIPULATOR
Mechanic crane connection	MFA	JMFA-L	Suspension (universal joint)	Suspension (universal joint)	Suspension (universal joint)	Suspension (universal joint)	MFA Adapter	Crane Hook	Shaft Rotator Suspension (universal joint)	Suspension (universal joint)	pull in part
Hydraulic supply	--	--	SL4 / T4 / T4I / J04	SL4 / T4 / T4I	SL4 / T4 / T4I / J04	SL4 / T4 / T4I	SL2 / T2	--	SL4 / T4 / T4I / J04	SL4 T4 T4I	SL4 / T4 / J04 changeover valve for 3rd hydraulic function
Pressure limit on control valve	--	--	-- GRDRU	-- GRDRU	-- GRDRU	-- GRDRU	RODRU 260	--	-- GRDRU	-- GRDRU	RODRU GRDRU
Elektric supply	AK VAK	--	--	--	--	--	--	--	--	--	3x1,5 mm ² (for changeover valve) Free function for tilt function
Miscellaneous	SH / TEC Emergency lowering unit required	TEC PJMFA MFAJ	--	--	--	--	--	--	--	--	RRC PAL50/150/180

TO BE OBSERVED

Many of the crane tools are equipped with an overpressure protection device. This protects the tool and the rotator from overpressure and thus from damage.

The Crane Tools catalog always states whether the additional device is supplied with an overpressure protection device. The following must be observed for devices without overpressure protection:

Operating pressure crane > maximum pressure rotator / crane tool

- GRDRU => Maximum pressure of crane tool
- RODRU => Maximum pressure of rotator

Operating pressure crane < maximum pressure rotator / crane tool

- GRDRU => no limit necessary
- RODRU => no limit necessary

Information on the pressures can be found in the technical data on Paldesk or in the Crane Tools catalog.

MULTIFUNCTIONAL ADAPTER

The PALFINGER loader crane has always been a multifunctional working tool and is successfully used by our customers for a wide range of tasks. A variety of available attachments support this feature, as the crane can be perfectly equipped for the job. In order to facilitate the change between the various applications and to make it more ergonomic, PALFINGER has developed MFA, short for multifunctional adapter, for the TEC crane range.

The advantage for the user is the standardized interface at the crane tip. As a result, a lesser manual effort is necessary for changing attachments, which significantly increases safety, efficiency and comfort.

Advantages

- Efficient change between different tools
- Minimum effort is required when changing attachments
- Expansion of the application possibilities of the crane
- Standardized mechanical interface



MFA - LOGIC

Depending on the expected load on the MFA, two independent MFA series optimized for the application were created. The two series, MFA-L (light) and MFA-H (heavy), differ fundamentally in their design and are not compatible with each another. In order to increase user-friendliness, the selection of the correct tool or set-up state is made easier by visual coding.



MFA - LOAD ATTACHMENT

The MFA load attachment is suitable for the simple connection of hooks, rotators and other crane tools. The increased distance to the extension boom ensures trouble-free working in all arm positions.



MFA - WORKMAN BASKET

To ensure quick and easy coupling with the PALFINGER - workman baskets, all workman baskets are also available with the interface for the MFA.



MFA - PULLEY HEAD

Ideally, the appropriate pulley heads are ordered with the crane and the MFA. The individual components can also be ordered later. There is a variety of matching pulley heads available for the MFA, allowing easy and time-saving docking. MFA pulleyheads are exclusively available for TEC range cranes.



MFA - INSTALLATION TIP

The perfect tool for crane operations in confined spaces. Whether machine handling or the loading of goods through windows or doors – with the PALFINGER MFA installation tip, you can expand the possible applications of your crane. As with any MFA attachment, simple and time-saving docking is possible.



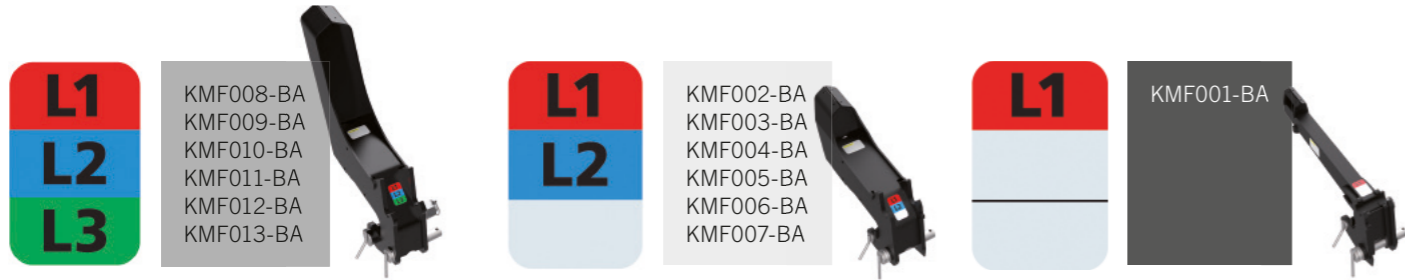
MFA - JIB

The use of MFA jibs increases the reach of your crane by up to max. 5.3 m, enables you to work over interfering edges and allows exceptional applications. The new "MFAJ" software function ensures that the MFA-JIB is integrated into the crane's overload system. The MFA-JIB therefore fully complies with EN12999.

MFA-L-RETROFIT P-PROFILE

You want to retrofit your existing TEC – crane with a MFA?

Here you select the MFA required for your crane version – based on the extensions on the crane or fly jib. The visual coding on MFA and its tools will help you to choose the available combinations.



CRANE TYPES	Hydraulic extension on the crane							
	A	B	C	D	E	F	G	H
PK 245 TEC	KMF008-BA	KMF007-BA	KMF006-BA	KMF005-BA	KMF004-BA	KMF003-BA	--	--
PK 250 TEC								
PK 295 TEC								
PK 300 TEC	KMF009-BA	KMF008-BA	KMF007-BA	KMF006-BA	KMF005-BA	KMF004-BA	KMF003-BA	--
PK 365 TEC								
PK 370 TEC								
PK 480 TEC	KMF010-BA	KMF009-BA	KMF008-BA	KMF007-BA	KMF006-BA	KMF005-BA	KMF004-BA	--
PK 580 TEC								
PK 1050 TEC	--	KMF011-BA	KMF010-BA	--	KMF009-BA	KMF008-BA	KMF007-BA	KMF006-BA
PK 1350 TEC	--	--	KMF012-BA	--	KMF010-BA	KMF009-BA	KMF008-BA	KMF007-BA
PK 1650 TEC	--	--	KMF013-BA	--	KMF011-BA	--	KMF009-BA	KMF008-BA

FLY JIB TYPES	Hydraulic extension on the fly-jib					
	A	B	C	D	E	F
PJ 075	KMF003-BA	KMF002-BA	--	--	--	--
PJ 090	KMF003-BA	KMF002-BA	KMF001-BA	--	--	--
PJ 150	--	--	KMF003-BA	--	KMF001-BA	--
PJ 190	--	--	--	--	KMF002-BA	--
PJ 240	--	--	--	--	KMF003-BA	--
PJ 300L	--	--	--	--	--	KMF003-BA

OPTIONS

Load attachment

11,5 t

18 t

25 t

L1 KLG051-BA

L2 KLG052-BA

--



Trouble-free working in all arm positions.
For connecting hooks, rotators and other crane tools.

Workman basket connection

BB040/BB041

BB042

BB004/BB052/BB056

L1 BB040K01-BA

L1 BB042K01-BA

L1 BB004K01-BA



You can already order your PALFINGER EN 280 work basket with the suitable MFA connection ex factory under the **option –P**. For any retrofits, we offer the connection console as a single part.

Pulley heads

1,5 t

2,5 t

3,5 t

4,5 t



STRAN 1

--

L1 KUR279-BA*

L1 KUR232-BA*

--

STRAN 2

--

L1 KUR296-BA

L2 KUR233-BA

L3 KUR224-BA

STRAN 4

--

--

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--

Ideally, the winch application is configured with the crane. Alternatively, the MFA pulley heads can also be ordered separately.

* Tiltable pulley head for use up to KMF003-BA.

In addition to the visual coding, the technical data must always be observed with regard to the installation of the cable winch components.

Installation tip

2 t

3 t

L1 KLG108-BA

L2 KLG075-BB



On request, we can offer other models tailored to your application.

Ideal for working through window or door openings due to the offset load-bearing point. The MFA installation tip is an interchangeable load handling attachment acc. to EN 13155 and not integrated in the overload system of the crane. The maximum permissible load that is indicated on the installation tip must not be exceeded.

Adapter

Earth auger

L1 KLG069-BA

--

--

--



On request, we can provide you with special adapters for other applications and tools.

MFA-H-RETROFIT P-PROFILE

The MFA-H series is designed for higher load applications such as four-line winch operation for example. As with the MFA-L, choose here the MFA required for your crane version – based on the Extension on the crane or JIB. The visual coding on MFA and its tools helps you to choose the available combinations.



CRANE TYPES	Hydraulic extension on the crane							
	A	B	C	D	E	F	G	H
PK 245 TEC	--	--	--	--	--	--	--	--
PK 250 TEC	--	--	--	--	--	--	--	--
PK 295 TEC								
PK 300 TEC	KMF019-BA	KMF018-BA	KMF017-BA	KMF016-BA	KMF015-BA	KMF014-BA	--	--
PK 365 TEC								
PK 370 TEC								
PK 480 TEC	KMF020-BA	KMF019-BA	KMF018-BA	KMF017-BA	KMF016-BA	KMF015-BA	KMF014-BA	--
PK 580 TEC								
PK 1050 TEC	--	KMF022-BA	KMF021-BA	--	KMF019-BA	KMF018-BA	KMF017-BA	KMF016-BA
PK 1350 TEC	--	--	KMF022-BA	--	KMF020-BA	KMF019-BA	KMF018-BA	KMF017-BA
PK 1650 TEC	--	--	KMF023-BA	--	KMF021-BA	--	KMF019-BA	KMF018-BA

OPTIONS

Load attachment



11,5 t

18 t

25 t

--

H1

KLG053-CA

H2

KLG053-BA

Trouble-free working in all arm positions.
For connecting hooks, rotators and other crane tools.

Workman basket connection



BB040/BB041

BB042

BB004/BB052/BB056

H1

BB040K02-BA

H1

BB042K02-BA

H1

BB004K02-BA

You can already order your PALFINGER EN 280 work basket with the suitable MFA connection ex factory under the **option –P**. For any retrofits, we offer the connection console as a single part.

Pulley heads



1,5 t

2,5 t

3,5 t

4,5 t

STRAN 1

--

--

--

--

STRAN 2

--

H1

KUR384-BA

H1

KUR245-BA

H1

KUR246-BA

STRAN 4

--

H1

KUR234-BA

H1

KUR225-BA

H2

KUR226-BA

Ideally, the winch application is configured with the crane. Alternatively, the MFA pulley heads can also be ordered separately.

In addition to the visual coding, the technical data must always be observed with regard to the installation of the cable winch components.

Installation tip



6 t

H1

KLG077-BA

On request, we can offer other models tailored to your application.

Ideal for working through window or door openings due to the offset load-bearing point. The MFA installation tip is an interchangeable load handling attachment acc. to EN 13155 and not integrated in the overload system of the crane. The maximum permissible load that is indicated on the installation tip must not be exceeded.

Adapter

On request, we can provide you with special adapters for other applications and tools.

MFA-JIB

"More reach" is probably the most requested customer requirement that reaches us. We are doing our best with the new MFA-Jib to expand your application possibilities.

In order to be able to react as flexibly as possible to any interfering edges, the MFA-JIB is equipped with manual angle adjustment as standard. Furthermore, the MFA-JIB can be ideally adapted to the crane by making use of the optional rope winch and storing solutions.

By integrating the MFA-JIB in the crane's overload protection, the MFA-JIB fully complies with the most recent release of EN12999.

ATTENTION: The usage of the MFA-JIB PJM020 is only permitted on P-Profile fly jibs in combination with TEC series cranes.

PJM020

TECHNICAL DATA

PJM020

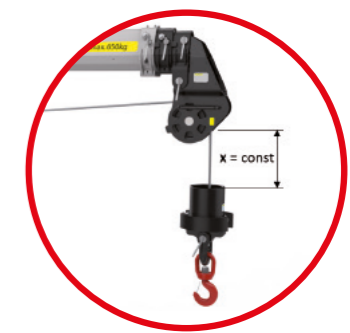
Lifting moment	[mt]	1.84
Max. reach	[m]	5.25
Max. load	[kg]	650
Painting		RAL 7001
Weight	[kg]	100
Angle adjustment unit ADJ	[°]	+20/0/-20/-40/-60



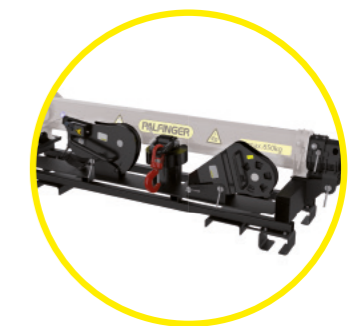
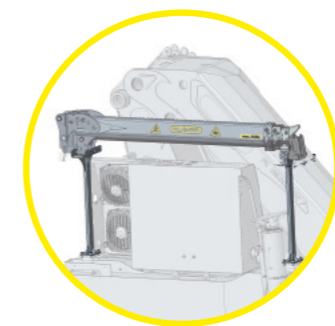
OPTIONS



CODE	DESCRIPTION
S2.5	prepared for winch operation 2.5 t
S3.5	prepared for winch operation 3.5 t
S4.5	prepared for winch operation 4.5 t
SRC	prepared for synchronised rope control



KMG07490A	For the cranes PK1350 TEC / PK1650 TEC
KMG13230A	For the cranes PK1050 TEC
TOOL-RACK	Transport rack for safe stowage including all winch parts

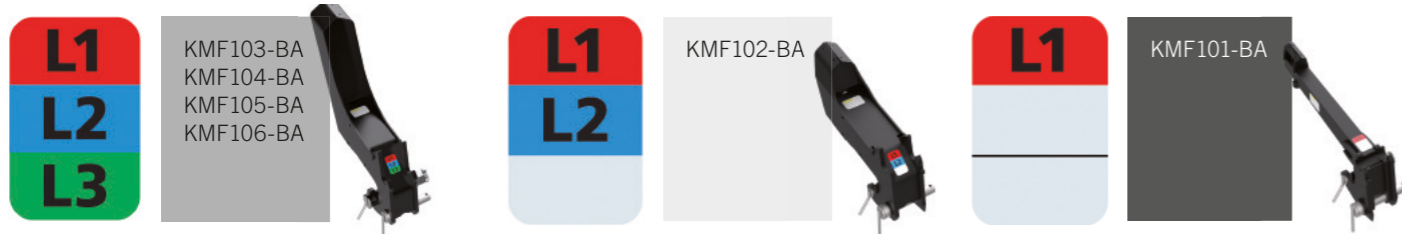


MFA-L-RETROFIT HEXAGONAL-PROFILE



You plan to retrofit your existing EH,SH or SLD with the MFA?

Chose the suitable MFA based on the boom extensions on the crane or fly jib. The visual coding on the MFA and it's tools helps to identify suitable combinations.



CRANE TYPES	Hydraulic extensions on the crane							
	()	A	B	C	D	E	F	G
PK 5.001 SLD / PK 5.501 SLD			KMF101-BA	--	--	--	--	--
PK 7.001 SLD / PK 7.501 SLD	KMF103-BA	KMF102-BA	KMF101-BA	--	--	--	--	--
PK 7.001K SLD / PK 7.501K SLD			--	--	--	--	--	--
PK 8.501 SLD / PK 9.501 SLD					KMF101-BA	--	--	--
PK 11.001 SLD / PK 12.501 SLD	KMF105-BA	KMF104-BA	KMF103-BA	KMF102-BA	KMF101-BA	--	--	--
PK 13.501 SLD / PK 14.501 SLD	--				KMF103-BA	KMF102-BA	--	--
PK 13.501K SLD / PK 14.501K SLD	--	KMF106-BA	KMF105-BA	KMF104-BA	--	--	--	--
PK 17.001 SLD / PK 19.001 SLD	--				KMF103-BA	KMF102-BA	--	--
PK 21.501 SLD / PK 24.001 SLD	--				KMF103-BA	KMF102-BA	--	--

CRANE TYPES	Hydraulic extensions on the crane							
	()	A	B	C	D	E	F	G
PK 8502 / PK 9002 EH 10002 SH					KMF101-BA	--	--	--
PK 11002 / PK 12002 EH / PK 12502 SH	KMF105-BA	KMF104-BA	KMF103-BA	KMF102-BA	KMF101-BA	--	--	--
PK 13002 / PK 14002 EH / PK 14502 SH	--						--	--
PK 16002 / PK 18002 EH / PK 18502 SH	--	KMF106-BA	KMF105-BA	KMF104-BA	KMF103-BA	KMF102-BA	--	--
PK 19502 / PK 22002-EH	--						--	--
PK 23002 SH								
PK 23502 / PK 26002 EH	--	--	--	KMF106-BA	KMF105-BA	KMF104-BA	KMF103-BA	KMF102-BA
PK 24001 / PK 27001 EH	--	--	--					
PK 24001K	--	KMF106-BA	KMF105-BA	KMF104-BA	--	--	--	--
PK 27002 SH	--	--	--	KMF106-BA	KMF105-BA	KMF104-BA	KMF103-BA	KMF102-BA
PK 30002 / PK 33002 EH	--	--	--					
PK 30002K	--	KMF106-BA	KMF105-BA	KMF104-BA	--	--	--	--
PK 34002 SH	--	--	--	KMF106-BA	KMF105-BA	KMF104-BA	KMF103-BA	KMF102-BA
PK 36502 / PK 41002 EH	--	--	--	--			--	--
PK 37002 / PK 42002 SH	--	--	--	--			KMF104-BA	KMF103-BA
PK 44502 / PK 48002 EH	--	--	--	--	KMF106-BA	KMF105-BA	--	--
PK 46002 / PK 53002 SH	--	--	--	--			KMF104-BA	KMF103-BA
PK 56502 / PK 62002 EH	--	--	--	--			--	--

CRANE TYPES	Hydraulic extensions on the crane							
	()	A	B	C	D	E	F	G
PK 6500 / PK 8500	KMF103-BA	KMF102-BA	KMF101-BA	--	--	--	--	--
PK 10000 / PK 12000	KMF105-BA	KMF104-BA	KMF103-BA	KMF102-BA	KMF101-BA	--	--	--
PK 15500 / PK 18500 / PK 23500	--	KMF106-BA	KMF105-BA	KMF104-BA	KMF103-BA	KMF102-BA	--	--

FLYJIB TYPES	Hydraulic extensions on the Fly Jib					
	()	A	B	C	D	F
PJ 040	--	KMF101-BA	--	--	--	--
PJ 045	--	KMF101-BA	--	--	--	--
PJ 060	--	KMF103-BA	KMF102-BA	--	--	--
PJ 080	--	--	KMF103-BA	KMF102-BA	--	--
PJ 125	--	--	--	KMF104-BA	--	KMF102-BA
PJ 170	--	--	--	KMF105-BA	--	KMF103-BA

Due to the possibility to use certain MFA adapters on multiple crane configurations and manufacturing tolerances, different distance plates are needed to suit the MFA perfectly to the crane or fly jib.

Please note that if the MFA is ordered as equipment, no spacers are included in the scope of delivery. These must be ordered as spare parts.

OPTIONS

Load attachment	11,5 t	18 t	25 t
L1 KLG119-B A			--

Workman basket connection	BB040/BB041	BB042	BB004/BB052/BB056
L1 BB040K01-BA	L1 BB042K01-BA	L1 BB004K01-BA	

Installation tip	2 t	3 t
L1 KLG108-BA	L2 KLG075-BB	

Adapter	Earth auger
L1 KLG069-BA	--

On request, we can provide you with special adapters for other applications and tools.

WORKMAN BASKET CE-EN 280

The PALFINGER EN 280 workman basket was specially developed for the use on SH and TEC loader cranes. Through the use of innovative technology, your PALFINGER crane becomes an aerial work platform and thus considerably expands the field of application of your crane vehicle. For years, we have been the only supplier on the market to offer the crane and workman basket as a complete system that complies with the EN 280 standard. This considerably simplifies the release process of the complete vehicle and saves you money. You don't know yet, if you will use workman baskets at a later stage? You can order your crane with a workman basket preparation and retrofit the workman basket if necessary – uncomplicated and without costly adaptation work.

Advantages

- PALFINGER and TÜV approved crane and workman basket system according to the EN 280 standard
- Low dead weight for maximum reach
- Fast and ergonomic installation due to multi functional adapter (MFA)
- Protected handrail on all sides
- Safe working with the optionally available personal safety device
- Lowering in an emergency with the available emergency drive



WARNING! The tested overall system only refers to components that are sold by PALFINGER. Successful acceptance in accordance with EN280 cannot be guaranteed if third-party components are used.



BB042

Economical

- Easy working for **two people**
- Innovative and patented valve control for damped pendulum motion
- Optional Toolbox



BB040

Comfortable

- Comfort and safety at the highest level for **two people**
- Fine-controlling automatic leveling for the perfect balance
- Integrated toolbox for safe storage
- Largest possible workspace



BB041

Compact

- Comfort and safety at the highest level for one person
- Slim design
- Fine-control automatic leveling for the perfect balance
- Integrated toolbox for safe storage
- Largest possible workspace

TECHNICAL DATA

		BB040	BB041	BB042
Load capacity	[kg]	200	140	200
Permitted persons		2	1	2
Leveling		electro-hydraulic	electro-hydraulic	gravitation
Working angle	[°]	360	360	135
Dimensions WxDxH	[mm]	1400x700x1160	850x700x1160	1400x700x1160
Floor space	[m ²]	0.98	0.6	0.98
Electrical system	[V]	24	24	24
Emergency stop		●	●	●
Quick change system		●	●	●
Toolbox		●	●	○ HX6959
Dead weight	[kg]	200	172	145

● Standard ○ Optional -- Not available

RETROFIT

If you would like to retrofit your SH or TEC crane with a workman basket according to EN 280, this is only possible with the preparation for a workman basket operation, offered by PALFINGER. In addition to the pull in part and the electrical preparation on the crane, the preparation also includes the necessary assembly parts for setting up an emergency drive. Only the emergency drive, a cable drum kit depending on the crane execution and the workman basket itself are necessary for retrofitting.



EP1982

Emergency drive (3 kW, max. 270 bar)

To ensure safe lowering of the workman basket in case of failure of the conventional hydraulic system, an emergency operation of the workman basket acc. EN 280 is required. Parts such as pressure compensator, check valve and battery switch are already included in the scope of delivery of the crane workman basket preparation. However, it's also possible to obtain a **complete kit including these parts**. (see page 25)

ATTENTION: The drive is exclusively designed for emergency and not for standard operation. The hydraulic and electrical connection must be made in accordance with the installation guidelines of PALFINGER. Please make sure that the specifications of the carrier vehicle are adhered to! When making electrical connections, pay attention to the appropriate cable cross-sections.



KKF00028A

Cable drum-Kit

If there are no hose trays mounted on the crane, the electrical supply to the workman basket must be additionally ensured with a cable drum. All necessary parts for the assembly including the cable drum itself are included in this kit.



KMG14065A

Connection kit workman basket and emergency unit

The EN 280 connection kit standardizes the interface between the crane, workman basket and emergency units. It is designed for both 1-circuit and 2-circuit systems, whereby 2 supply outputs with 150A each are available. In addition, 2 potential-free outputs (10A fused) are also available for individual use.

WORKMAN BASKET PERSONAL SAFETY EQUIPMENT

Complete your workman basket with our personal safety system, which is mandatory in many countries. The fall protection device and the safety harness recommended by PALFINGER offer optimum protection and wearing comfort.



PZBB03

Fall protection device (length 1.8 m) according to EN 360

- Revision-free in the whole EU
- With fall-indicator
- Especially for workman basket operation according to EN 280



PZBB04

Comfort security harness in H-design according to EN 361

- 2-point system (front and rear connection possible)
- Elastic DuraFlex belt
- Quick-release buckles on leg loops and chest belt

WORKMAN BASKET NON-CE

The NON-CE version of the simple and robust PALFINGER workman baskets have been especially developed for use on hydraulic loader cranes and are used exclusively in countries where the EN 280 standard is not required.

Advantages

- Expand the range of operation of loader cranes
- The optional quick-change system allows quick installation of the workman basket



BB004

- Robust construction for **two people**
- Reduced to the essential
- Integrated toolbox for safe storage



BB004B

- Robust construction for **two people**
- Built-in emergency stop button (power supply necessary)
- Integrated toolbox for safe storage



BB052

- Weight-optimized aluminum basket for **two people**
- Reduced to the essential



BB056

- Weight-optimized fiberglass basket for **two people**
- Reduced to the essential
- Integrated toolbox for safe storage

TECHNICAL DATA

BB004
BB004B
BB052
BB056

Load capacity	[kg]	280	280	200	200
Permitted persons		2	2	2	2
Material		steel	steel	steel / Aluminum	steel / fiberglass
Leveling		gravitation	gravitation	gravitation	gravitation
Working angle	[°]	360	360	120	120
Dimensions BxTxH	[mm]	1000x694x1192	1000x694x1192	1400x710x1150	1450x900x1150
Floor space	[m ²]	0,6	0,6	0,8	0,8
Electrical system	[V]	--	--	--	--
Emergency stop		--	●	--	--
Quick change system		○ BZ456*	○ BZ456*	○ BZ456*	○ BZ456*
Toolbox		●	●	--	●
Dead weight	[kg]	190	190	101	105
Radio remote bracket		HXE3003 (SCANRECO S), KSS001B03 (SCRANRECO L), HXE9216 (PALCOM)		--	--

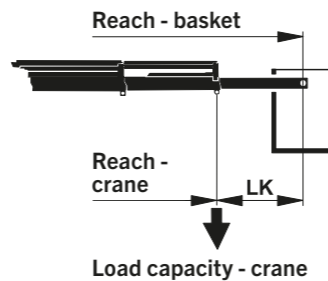
● Standard ○ Optional -- Not available * for hexagonal profile

GENERAL DIMENSIONING

PALFINGER recommends that the following calculation should be considered in order to determine the required minimum load capacity of the NON-CE crane

$$\frac{\text{reach - basket}}{\text{reach - crane}} \times \left(\text{weight pull in part} + \text{weight workman basket} + \frac{\text{Load capacity workman basket}}{\text{Load capacity crane}} \times 1.5 \right) = \text{Required minimum load capacity of the crane during workman basket operation}$$

Total weight - basket [kg]	Weight basket + load capacity basket + weight pull in part
Reach - basket [m]	Reach of the crane with workman basket
Reach - crane [m]	Maximum reach of the crane without workman basket
Load capacity - crane [kg]	Load capacity of crane acc. Load capacity label
LK [m]	Distance from the load hanger of the last extension boom to the center of gravity of the workman basket. This distance depends on the workman basket + pull in part.



In order to ensure safety during workman basket operation, it is also recommended to fully support the crane and to ensure stability throughout the working area. **The maximum crane speed** in work basket operation prescribed in EN 280 should also **not be exceeded!**

Speed	Movement
max. 0.4 m/s	Vertical- and horizontal movements
max. 0.7 m/s	Slewing movements (measured in the working basket at maximum reach)

EMERGENCY DRIVE

To ensure a safe lowering of the workman basket in case of failure of the conventional hydraulic system, an emergency operation of the workman basket is also recommended for NON-CE cranes.



The emergency drive is available as a hydraulic kit for constant or variable pump for 24V. The hydraulic kit contains all necessary hydraulic components such as check valve, pressure compensator, etc.

Code	Description
KMG00210A	Workman basket emergency-drive kit for constant-pump cranes 24 V – 3 kW – max. 270 bar
KMG00211A	Workman basket emergency-drive kit for variable-pump cranes 24 V – 3 kW – max. 270 bar

The emergency unit is also available as a loose part

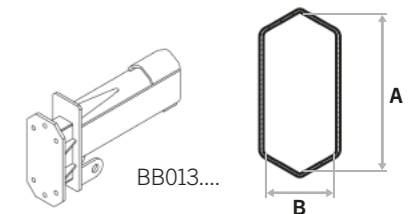
Code	Description
EP1982	Emergency drive 24 V – 3 kW – max. 270 bar
EP2022	Emergency drive 12 V – 3 kW – max. 270 bar

ATTENTION: The drive is exclusively designed for emergency and not for standard operation. The hydraulic and electrical connection must be made in accordance to the installation guidelines of PALFINGER. Please make sure that the specifications of the carrier vehicle are adhered to! When making electrical connections, pay attention to the appropriate cable cross-sections.

PULL IN PARTS

PALFINGER offers suitable pull in parts for the mechanical connection of a NON-CE workman basket on the crane. The quick-change system allows a convenient coupling and uncoupling of the workman basket on the crane.

Code	Quick change device with	Quick change device without	Inside dimensions extension boom A [mm]	Inside dimensions extension boom B [mm]	Weight [kg]
BB013-10V1	●	●	123	62	22
BB013-15V1	●	●	155	79	22
BB013-16V1	●	●	188	96	28
BB013-17AV1	●	●	224	116	30
BB013-18V1	●	●	260	138	33



It is possible that adaptations are necessary on the pull in part on some crane versions.

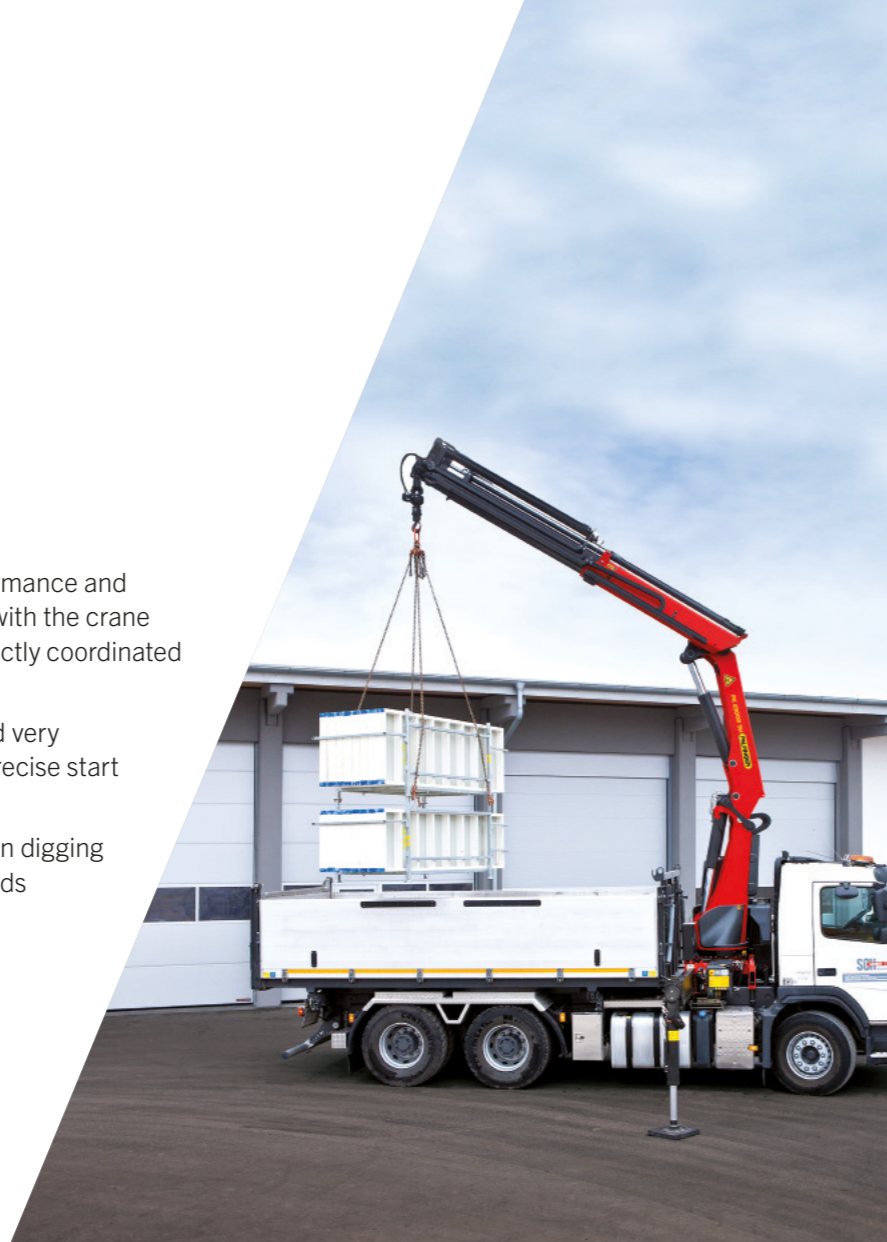
If you wish to equip your crane with a quick change system, you may find the right components within the chapter multifunctional adapter.

ROTATORS

Rotators from PALFINGER impress with their high performance and durability combined with a compact design. Combined with the crane attachments offered by PALFINGER, you receive a perfectly coordinated total solution - optimum safety and maximum efficiency.

The applied "gerotor" principle makes it possible to build very compact and effective rotators that impress with their precise start and stopping behavior.

This prevents, for example, a rotation of the grapple when digging or makes a counter-control when manipulating long goods unnecessary.



PRODUCT FEATURES

- Precise start and stop behavior (without countersteering)
- Payloads from 3 t up to 10 t
- Integrated pressure relief valves to prevent overloading
- High torque at low speed for precise positioning of loads and crane tools
- Two swivel ball bearings for safe absorption of compressive, tensile and bending loads
- Forged, one-piece flange shaft
- Endless rotary motor with integrated oil passage

CRANE CONNECTION VARIANTS

In order to make it easier for you to choose the connection between crane and tool, we have put together various connection packages. You can simply select these with your additional device.

For the operation of an additional device FLANGE ROTATOR PACKAGE FLANGE

- The package consists of:
- Flange rotator PZR450GF, payload 4500 kg, torque 850 Nm, bending moment 3000 Nm
 - Upper suspension according to the crane version
 - Hose protection to prevent damage of the hydraulic connections
 - Connecting hoses to the crane incl. screw couplings



Ideally suited for the operation of several additional devices SHAFT ROTATOR PACKAGE SHAFT

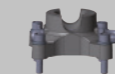
The use of a shaft rotator makes it easy to switch between different accessories such as crane fork, brick stack grapples or clamshell buckets.

- The package consists of:
- Shaft rotator PZR450G-68, shaft diameter 68 mm, payload 4500 kg, torque 850 Nm, bending moment 3000 Nm
 - Upper suspension according to the crane version
 - Hose protection to prevent damage of the hydraulic connections
 - Connecting hoses to the crane incl. screw couplings



PRE-SHAFT

Preparation for shaft rotator
Mounted on the attachment, allows operation with a shaft rotator and ensures easy switching between different attachments. If the crane is already equipped with a rotator, the attachment can also be equipped only with the preparation.



QUICK-KIT

Quick change device (load 4000 kg)

For an even more efficient switching between different tools, a quick-change device is also available to the shaft rotator. The mechanical coupling and closing is effected by the rotary motion of the rotator. To disconnect, the operator only has to manually open the locking device of the quick-change system and operate the rotary motor. You can change easily and fast between e. g. grapple and brick stack grapples.

If the rotator on the crane is already equipped with a quick-change system, the attachment can only be equipped with PRE-QUICK preparation.



SHAFT-HOOK

Load hook
Payload 4500 kg

Rigid load hook. The perfect tool for positioning all your loads.



QUICK-HOOK

Load hook
Payload 4000 kg

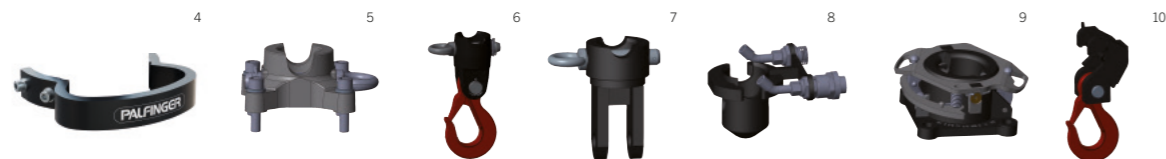
Rigid load hook. The perfect tool for positioning all your loads.



ROTATORS COMBINATIONS



OPTION	DESCRIPTION	CODE	3 t	4.5 t	6 t	10 t		
			PZR300G	PZR450G-68	PZR450GF	PZR601G	PZR601GF	PZR1000GF
Basic data	Connection		Shaft Ø 49,5 mm	Shaft Ø 68 mm*	Flange □ 140 mm	Shaft Ø 68 mm	Flange □ 140 mm	Flange □ 140 mm
	Working pressure max. [bar]		370	370	370	370	370	370
	Overpressure protection		●	●	●	●	●	●
	Recommended rate of flow [l/min]		25 – 40	25 – 40	25 – 40	25 – 40	25 – 40	25 – 40
	Torque [Nm]		850	850	850	1000	1000	2000
	Bending moment [Nm]		1750	3000	3000	4500	8500	12000
	Installation height A [mm]		229	242	220	286	254	313
	Weight [kg]		24	26	26	32	34	65
Upper suspension			depending on crane	depending on crane	depending on crane	depending on crane	depending on crane	depending on crane
			UL167 (B 170 mm) UL168 (B 170 mm) --	-- UL045 (B 263 mm) UL045K (B 173 mm) UL045-42 (B 253 mm)	-- UL045 (B 263 mm) UL045K (B 173 mm) UL045-42 (B 253 mm)	-- UL135 (B 278 mm) UL135K (B 245 mm) UL135-42 (B 268 mm)	-- UL135 (B 278 mm) UL135K (B 245 mm) UL135-42 (B 268 mm)	-- -- UL153-42 (B 370 mm)
Additional equipment	Connection hoses							
	Crane to rotator (2 pcs.) - length 900 mm Crane to rotator (4 pcs.) - length 900 mm Crane to rotator (4 pcs.) - length 1200 mm Rotator to additional device (2 pcs)		BL462-R BL462 BL513 BL463	BL462-R BL462 BL513 BL463	-- BL462 BL513 BL463	BL462-R BL462 BL513 BL463	-- BL462 BL513 BL463	-- BL462 BL513 BL463
Hydraulic plug-in couplings	Complete kit	2RO-PK	BL981-PK	BL981-PK		BL981-PK		
	Mobile parts (2 pcs.) Fixed part (2 pcs.)	2RO-L 2RO-R	BL981-L BL981-F	BL981-L BL981-F		BL981-L BL981-F		
Hose protection ⁴		--	--	PZZR450S	PZZR450S	PZZR601S	PZZR601S	--
Connecting piece ⁵	PRE-SHAFT	--	--	PZZR450R-68	--	PZZR601R-GA	--	--
Load hook ⁶	SHAFT-HOOK	--	--	PZZR450LH-68	--	PZZR601LH-W	--	--
Rigid link ⁷	SHAFT-LINK	--	--	PZZR450-A	--	--	--	--
Quick changer - package	QUICK-KIT	--	--	PZZR450SV-PK	--	PZZR601SV-PK	--	--
Quick changer - upper part ⁸	SHAFT-QUICK	--	--	PZZR450SV-OT	--	PZZR601SV-OT	--	--
Quick changer - lower part ⁹	PRE-QUICK	--	--	PZZR450SV-UT	--	PZZR601SV-UT	--	--
Quick changer - hook ¹⁰	QUICK-HOOK	--	--	PZZR450-A/LH	--	PZZR601-A/LH	--	--



● Standard ○ Optional -- Not available * further diameters available on request

An overview of available suspensions and their use cases may be retrieved on PALDESK



GRAPPLES

The classic crane tool. Regardless of whether handling or easy digging – we offer the right grab for every application. Proven technology ensures high reliability and efficiency.

A multitude of options also gives you the opportunity to optimally equip your grapple to your daily requirements.



HPX GRAPPLE

The all-rounder

- Universal clamshell grab for daily use
- Easy shell changing within 10 min
- Constant clamping force over the entire gripping process
- Low maintenance
- Longer life at lower operating costs
- No protruding components



DIGGING GRAPPLE

Solid

- Maximum loading height due to compact design
- Very good immersion behavior due to optimized shell geometry
- Long life due to high strength cutting edge material



UNIVERSAL GRAPPLE

Versatile

- Clamshell grab with laterally open shells for universal use.
- For simple digging, the handling of both bulk and bulky goods



HIGH VOLUME CLAMSHELL BUCKET

Fast

- The clamshell bucket for all handling operations
- Good accessibility allows lateral filling by hand
- High turnover rate

SPECIAL GRAPPLES

Individually

In addition to the standard models, Palfinger offers a large number of special solutions on request.

Grapple for Z-crane



Rail grapples



Orange peel grapple



Grapples with vertical cylinders



Grapples for small cranes



HPX-GRAPPLE CONFIGURATION OPTIONS



HPX – DRIVE UNIT

OPTION	DESCRIPTION	CODE	HPX	HPX hd
Basic data	Load capacity [kg]		3000	3000
	Working pressure max. [bar]		320	320
	Overpressure protection		•	--
	Recommended rate of flow [l/min]		40 – 75	40 – 75
	Closing force max. [kN]		20	30
	Weight [kg]		160	195
Additional equipment	Central hook	CENTH	○	○
	Grab extension	GREX	○	○



HPX – EXCHANGEABLE SHELLS

OPTION	DESCRIPTION	CODE	HPX	HPX hd
CLAMSHELL BUCKETS				
Nominal volume	095 L	G095	○	○
	150 L	G150	○	○
	200 L	G200	○	○
	250 L	G250	○	○
	325 L	G325	○	○
	350 L	G350	○	○
	450 L	G450	○	○
550 L	G550	○	○	
UNIVERSAL CLAMSHELL BUCKETS				
Nenninhalt	250 L	U250	○	○
	300 L	U300	○	○
	400 L	U400	○	○
	450 L	U450	○	○
	500 L	U500	○	○
	Additional equipment*	Screwable excavator teeth	DTEETH**	○
	Scrapers	EJECT	○	○
	wear plates	WEARE	○	○
	weld-on hook	WHOOK02	○	○
	hydraulic plug in couplings	2RO-PK	○	○
	rail adapter	P-CRAIL	○	○
	compression rails	CRAIL	○	○
	side plates (only for universal shells)	SWALL	○	○
	Special color RAL	RAL_____	○	○
FURTHER SHELLS				
Hay and forest	0,20 m ²	H020	○	○
	0,40 m ²	H040	○	○
Rock	0,16 m ²	S016	○	○
	0,35 m ²	S035	○	○
Timber	0,16 m ²	T016	○	○

HPX – CRANE CONNECTION

FLANGE
For the operation of one additional device

SHAFT
Ideally suited for the operation of several additional devices

PRE-SHAFT

QUICK-KIT

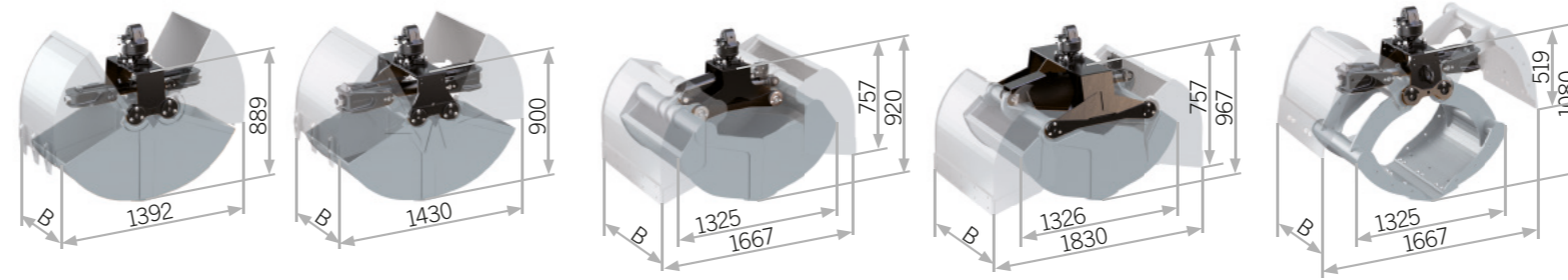
SHAFT-HOOK


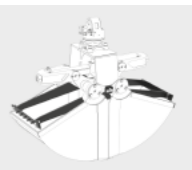
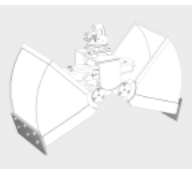

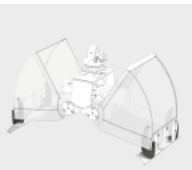


QUICK-HOOK

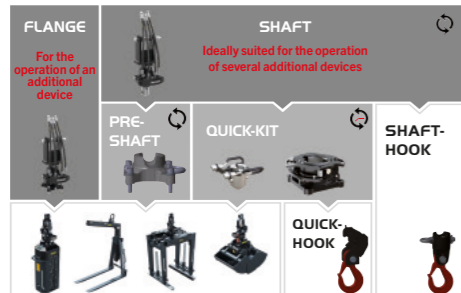
• Standard ○ Optional -- Not available * Details see page 27

** Standard on clamshell buckets

GRAPPLE CONFIGURATION OPTIONS



OPTION	DESCRIPTION	CODE	DIGGING GRAPPLE				HIGH VOLUME CLAMSHELL BUCKET				UNIVERSAL GRAPPLE		ADDITIONAL EQUIPMENT			
			PZG-G		PZG-G <i>hd</i>		PZG-S		PZG-S <i>hd</i>		PZG-U					
Basic data	Load capacity [kg]		3000		3000		3000		3000		3000	DTEETH Excavator teeth Easy to change, screwable excavator teeth				
	Working pressure max. [bar]		320		320		320		320		320					
Basic data	Overpressure protection		--		--		●		●		--	EJECT Ejector Ejectors automatically clean, during the opening process, the insides of the shells of adhering materials, such as e.g. clay.				
	Recommended rate of flow [l/min]		40 – 75		40 – 75		40 – 75		40 – 75		40 – 75					
Basic data	Closing force max. [kN]		20		30		20		28		28	WEARE Wear edges To protect the horizontal cutting edges.				
Nominal volume			Weight [kg]	Overall width [mm]	Weight [kg]	Overall width [mm]	Weight [kg]	Overall width [mm]	Weight [kg]	Overall width [mm]	Weight [kg]	Overall width [mm]	WHOOK02 Welding hooks For hanging slings or chains. Max. load per hook is 1000 kg			
	150 L	CAP150	○ 185	325	--	--	--	--	--	--	--	--				
	200 L	CAP200	○ 195	400	○ 265	400	--	--	--	--	--	--				
	250 L	CAP250	○ 220	500	○ 285	500	--	--	--	○ 340	570	--				
	300 L	CAP300	--	--	--	--	○ 315	640	○ 370	500	○ 355	670			--	
	350 L	CAP350	○ 240	650	○ 310	650	--	--	--	--	--	--			--	
	400 L	CAP400	--	--	--	--	○ 345	800	○ 430	800	○ 380	820			--	
	450 L	CAP450	○ 275	800	○ 340	800	--	--	--	--	○ 390	920			--	
	500 L	CAP500	--	--	--	--	○ 370	1000	○ 475	1000	○ 410	1020			--	
	550 L	CAP550	○ 290	1000	○ 375	1000	--	--	--	--	--	--			--	
	600 L	CAP600	--	--	--	--	--	--	--	--	○ 440	1220			--	
	650 L	CAP650	--	--	○ 410	1200	--	--	○ 515	1200	--	--			--	
1000 L	CAP1000	--	--	--	--	--	--	○ 595	1200	--	--	--				
Additional equipment	Screwable excavator teeth	DTEETH	●		●		○		○		○		CRAIL Compression rails for loading plates, curbs or similar			
	Scrapers	EJECT	○		○		--		--		--					
	wear plates	WEARE	○		○		○		○		●					
	weld-on hook	WHOOK02	○		○		●		●		●					
	hydraulic plug in couplings	2RO-PK	○		○		○		○		○					
	compression rails	CRAIL	○		○		○		○		○					
	side plates	SWALL	--		--		--		--		○				P-CRAIL Adapter for compression rails allows the fixing of the compression rails. compression rails set CR072 (length 720 mm) CR100 (length 1000 mm)	
	Special color RAL	RAL__	○		○		○		○		○					
Crane Connection*			Weight [kg]		Weight [kg]		Weight [kg]		Weight [kg]		Weight [kg]		SWALL Sidewalls Additional sidewalls screwed			
	FLANGE		○ 39		○ 39		○ 39		○ 39		○ 39					
	SHAFT		○ 40		○ 40		○ 40		○ 40		○ 40					
	PRE-SHAFT		○ 3		○ 3		○ 3		○ 3		○ 3					
	SHAFT-HOOK		○ 12		○ 12		○ 12		○ 12		○ 12					
	PRE-QUICK		○ 7		○ 11		○ 7		○ 11		○ 11					
	QUICK-KIT		○ 12		○ 18		○ 12		○ 18		○ 18					
	QUICK-HOOK		○ 7		○ 14		○ 7		○ 14		○ 14					



● Standard ○ Optional -- Not available * Details see page 27

BRICK STACK GRAPPLES

The technically advanced brickstack grapples are the ideal attachments for the handling of palletized as well as unpaletted goods. Compared to the classic pallet fork, the unloading time, for example of a building material transporter, can be significantly reduced. The adjustable plunge depths and the optimized opening widths make it possible to load individual concrete elements as well as complete brick pallets. Due to the low-wear rubber inserts in the pressure rails, the pliers are particularly easy to maintain.



Brick stack grapples



PARALLEL OPENING

Versatile
PZS

- Highest security
- Fixed or adjustable plunge depths
- Due to the large number of different pressure rails, the brick stack grapple can be perfectly matched to the material to be manipulated.



SCISSOR OPENING

Compact
PZS-S

- Compact design
- Fixed plunge depth
- Versatile use with opening widths from 40 - 1500 mm
- Pick up of single stones and big bags possible



PARALLEL OPENING

Simple
PZS321

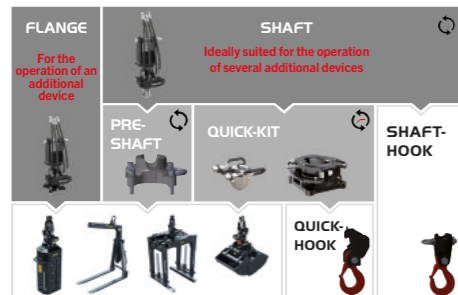
- Simple, robust construction
- Flexibility because of adjustable plunge depth

Attention!
Not released for the CE countries.

BRICK STACK GRAPPLES CONFIGURATION OPTIONS



OPTION	DESCRIPTION	CODE	PZS			
Basic data	Working pressure max. [bar]		370			
	Overpressure protection		●			
	Recommended rate of flow [l/min]		25 – 75			
			Load capacity [kg]**	Opening width [mm]	Weight [kg]	
Plunge depth	Fix					
	850 mm	FIX085	○ 2200	400 – 1400	240	
	1000 mm	FIX100	○ 2000	400 – 1400	250	
	1300 mm	FIX130	○ 1600	400 – 1400	260	
	Variable					
	1100 / 1650 mm	VAR165	○ 1900 / 1350	400 – 1400	295	
Additional equipment	Opening width 1800 mm	OW1800		○		
	Pendulum brake	PENDLB		○		
	Tilting device for reducing the vehicle height	UKV		○		
	Height reduction link for reducing the vehicle height	KA		○		
	hydraulic plug in couplings	2RO-PK		○		
	Spring-loaded guide rails to stabilize the upper row of stones	SGRAIL		○		
	Gripping width narrowing by 200 mm	GV200		○		
	adapter for concrete pipes	ADRING		○		
	Compression rail set	With smooth rubber insert	A29	○ 720	● length 1000	○ 1250
		Spring-loaded guide rails for stabilizing the top layer of the stack	A32	--	○	○
With two rubber inserts blocked out at the top, smooth at the bottom		A39	○	○	○	
Crane connection*	FLANGE			○	Weight [kg] 39	
	SHAFT			○	40	
	PRE-SHAFT			○	3	
	SHAFT-HOOK			○	12	
	PRE-QUICK			○	7	
	QUICK-KIT			○	12	
	QUICK-HOOK			○	7	



● Standard ○ Optional -- Not available * Details see page 27 ** Depending on the condition of the load (size, bundling, surface)

ADDITIONAL EQUIPMENT

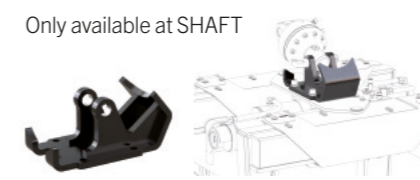
OW1800 Opening width 1800 mm

Increasing the opening width from 1400 mm to 1800 mm



UKV Tilting device

To reduce the total vehicle height.
Only available at SHAFT



ADRING Adapter for concrete pipes

with diameter from 800 – 1350 mm



PENDLB Pendulum brake

The pendulum brake dampens the swinging of the crane tool

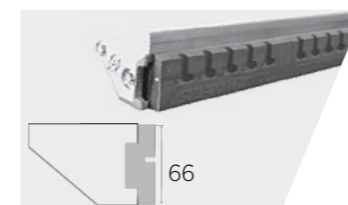


KA Height reduction link

To reduce the total vehicle height.



COMPRESSION RAIL SET



A29

With smooth rubber
Ideal for pallets and brick packages



A39

Blocked out with two rubber inserts at the top, smooth at the bottom
Ideal for pallets and brick packages



A32

Slat rails with lever lock and individually guided clamps
Ideal for paving stones

BRICK STACK GRAPPLES CONFIGURATION OPTIONS



OPTION	DESCRIPTION	CODE	PZS-S			PZS321 (NON-CE)		
Basic data	Working pressure max. [bar]		370			210		
	Overpressure protection		●			●		
	Recommended rate of flow [l/min]		25 – 75			25 – 75		
			Load capacity [kg]Opening width [mm] Weight [kg]			Load capacity [kg]Opening width [mm]Weight [kg]		
	Fix							
Plunge depth	1000 mm	FIX100	○ 2000	220 – 1420	315	--		
	1100 mm	FIX110	○ 2000	160 – 1450	320	--		
	1200 mm	FIX120	○ 1800	98 – 1475	325	--		
	1300 mm	FIX130	○ 1600	40 – 1500	330	--		
	Variable							
	790 – 1310 mm	VAR131	--			● 2000–1500	780 – 1400	401
Additional equipment	weld-on hook (4 pcs.)	WHOOK04		○		--		
	Pendulum brake	PENDLB		○		○		
	Tilting device for reducing the vehicle height	UKV		○		○		
	Height reduction link for reducing the vehicle height	KA		○		○		
	hydraulic plug in couplings	2RO-PK		○		○		
Compression rail set	With smooth rubber insert	A40		720	Length [mm] 1000	1250		
	With three-piece smooth rubber insert		--		●	○	--	
Crane connection*								
		FLANGE	○		39		○	39
		SHAFT	○		40		○	40
		PRE-SHAFT	○		3		○	3
		SHAFT-HOOK	○		12		○	12
		PRE-QUICK	○		7		○	7
		QUICK-KIT	○		12		○	12
	QUICK-HOOK	○		7		○	7	

● Standard ○ Optional -- Not available * Details see page 27 ** depending on the condition of the load (size, bundling, surface)



ADDITIONAL EQUIPMENT

UKV Tilting device

To reduce the total vehicle height.
Only available at SHAFT



KA Height reduction link

To reduce the total vehicle height.



WHOOK04 Welding hooks

4 pcs. Welding hooks for hanging slings or chains.
(Max. load per hook is 1000 kg)



PENDLB Pendulum brake

The pendulum brake dampens the swinging of the crane tool.



PALLET FORKS

Equipped with the right crane fork, your crane becomes an all-rounder for the handling of palletized and packaged goods. For classic pallet handling, we offer optional crane forks with mechanical, spring- or hydraulic-assisted center of gravity compensation.



SPRING-SUPPORTED PALLET FORKS

Comfortable
PZP-V | PZP-VS

- Low-maintenance and time-saving solution
- Easy and safe picking up of pallets because of the self-adjusting center of gravity compensation
- Multifunctional use for pallet handling thanks to simple adjustment of effective height and tine distance
- Easy threading through the narrow forged tines



MECHANICAL PALLET FORKS

Solid
PZP | PZP-MF

- Robust and economical solution
- Easy threading through the narrow forged tines
- Multifunctional use by simple adjustment of effective height and tine distance



HYDRAULIC PALLET FORK

Precise
PZP-H

- The flexible premium product
- Fast and efficient picking up of different pallet sizes and weights
- Highest safety and precision thanks to the hydraulic balance compensation
- Simple 1-person operation saves time and money



SPECIAL PALLET FORKS

Individually

- In addition to the standard models, Palfinger offers a large number of special solutions on request.

PALLET FORK CONFIGURATION OPTIONS



OPTION	DESCRIPTION	CODE	HYDRAULIC			SPRING SUPPORTED			MECHANICALLY					
			PZP-H			PZP-V			PZP			PZP-MF		
Basic data	Working pressure max. [bar]		200			--			--			--		
	Overpressure protection		--			--			--			--		
	Recommended rate of flow [l/min]		40 – 75			--			--			--		
	effective depth		1050 – 1650			1050 – 1650			1050 – 1650			1050 – 1650		
Load capacity	Center of gravity distance 500 mm	tine length	1500 kg 980 mm	TRAGL 1500 LFORK 980	Weight [kg] Tine distance [mm] Cross section [mm]	165 475 – 815 80x35	130 475 – 815 80x35	135 325 – 920 80x35	120 325 – 920 80x35	--	--	--	--	
			2000 kg 980 mm	TRAGL 2000 LFORK 980	190 475 – 835 100x35	150 495 – 835 100x35	155 345 – 940 100x35	130 345 – 940 100x35	150 330 – 930 100x35					
			2500 kg 980 mm	TRAGL 2500 LFORK 980	250 490 – 830 90x40	210 490 – 830 90x40	180 355 – 945 90x40	--	180 330 – 930 100x35					
	Center of gravity distance 600 mm	1500 kg 1150 mm	TRAGL 1500 LFORK 1150	195 495 – 835 100x35	165 495 – 835 100x35	170 345 – 840 100x35	--	--						
		2000 kg 1150 mm	TRAGL 2000 LFORK 1150	250 500 – 840 90x40	205 500 – 840 90x40	200 355 – 945 90x40	--	--						
		2500 kg 1150 mm	TRAGL 2500 LFORK 1150	270 510 – 850 100x45	230 510 – 850 100x45	225 385 – 975 100x45	--	--						
Additional equipment	Increase of usable height in 750 mm	EXT075	○	○	○	○	○							
	Telescopic to useable height 2500 mm	TELE25	○	○	--	--	○**							
	Telescopic to useable height 3000 mm	TELE30	--	--	--	--	○**							
	Hydraulic plug in couplings	2RO-PK	○	--	--	--	--							
Crane connection*			Weight [kg]			Weight [kg]			Weight [kg]			Weight [kg]		
	FLANGE		○	39	--	39	--	39	--	39	○	39		
	SHAFT		○	40	○	40	○	40	○	40	○	40		
	PRE-SHAFT		○	3	--	3	--	3	--	3	○	3		
	SHAFT-HOOK		○	12	○	12	○	12	○	12	○	12		
	SHAFT-LINK		○	9	○	9	○	9	○	9	○	9		
	PRE-QUICK		○	7	--	7	--	7	--	7	○	7		
QUICK-KIT		○	12	--	12	--	12	--	12	○	12			
QUICK-HOOK		○	7	--	7	--	7	--	7	○	7			

● Standard ○ Optional -- Not available * Details see page 27 ** Only on load capacity 2000 kg

ADDITIONAL EQUIPMENT

Increase of usable height EXT075

Increase the effective height of the crane fork by 750 mm with the simple installation of the extension. Ideal for manipulating insulation materials and similar.



Telescopic TELE25 | TELE30

Increase the usable height of the crane fork by pulling out the telescope. Efficient, without installing or removing extensions. Ideal for handling of insulation materials.



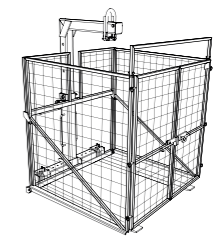
Rigid link SHAFT-LINK

Payload 4500 kg
Torsionally stiff suspension link. "The" addition to the spring-loaded crane fork for a more comfortable positioning of the loads



Protective cage

On request, a protective cage for securing loose loads on the crane forks is available. When handling loose material, a protective cage or net for load protection is mandatory (EN 13155). The maximum load capacity is 2000 kg.



UNIVERSAL FORK

The universal fork is particularly suitable for feeding old and new buildings with construction panels and other horizontally delivered building materials.

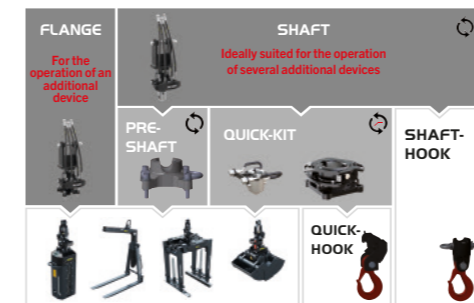
Different tine adjustment allows adjustment to the transported panels.

Of course, the universal fork can be used as classic crane fork.



CONFIGURATION OPTIONS

OPTION	DESCRIPTION	CODE	PZP-W		PZP-WK	
Basic data	Working pressure max. [bar]		370		370	
	Overpressure protection		●		●	
	Recom. rate of flow [l/min]		40 - 75		40 - 75	
	Package height max. [mm]		1250		1250	
	Package depth max. [mm]		460		460	
	Tine length [mm]		1600		1600	
Load capacity	800 kg	TRAGL 800	Weight [kg]	Tine distance [mm]	Weight [kg]	Tine distance [mm]
			--		○ 265	600 – 1000
	1000 kg	TRAGL 1000			○ 340	640 – 1600
	1500 kg	TRAGL 1500	○ 345	640 – 1600	○ 380	640 – 1600
					○ 390	640 – 1830
					○ 395	640 – 2100
2000 kg	TRAGL 2000	○ 360	640 – 1600	○ 390	640 – 1600	
				○ 400	640 – 1830	
				○ 405	640 – 2100	
2500 kg	TRAGL 2500	○ 380	640 – 1600	○ 400	640 – 1600	
				○ 410	640 – 1830	
				○ 415	640 – 2100	
Additional equipment	Hydraulic plug in couplings	2RO-PK		○		○
	clamping device	PZP001		○		○
	Park console	PZP002		○		○
	prep. for hydraulic hook	P-PZHH		○		○
Crane connection*			Weight [kg]		Weight [kg]	
	FLANGE		○	39	○	39
	SHAFT		○	40	○	40
	PRE-SHAFT		○	3	○	3
	SHAFT-HOOK		○	12	○	12
	PRE-QUICK QUICK-KIT		○	7 19	○	7 19
	QUICK-HOOK		○	7	○	7



● Standard ○ Optional -- Not available * Details see page 27

SINGLE SPAR

**Light
PZP-W**

- Gentle handling of the plates with special tines
- Higher range due to lower weight



DOPPELHOLM

**Robust
PZP-WK**

- Gentle handling of the plates with special tines
- Robust design
- Tilting cylinder protected from damage by the double spar



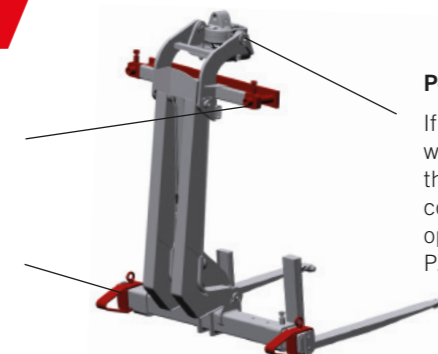
ADDITIONAL EQUIPMENT

PZP001

Adjustable clamping device to secure single sheets and smaller packs (for load over 1000 kg)

PZP002

Rack for safe and easy handling of folded universal fork (for load over 1000 kg)



P-PZHH

If your universal fork is equipped with P-PZHH instead of a rotator, the universal fork can also be convenient and highly efficient operated with the hydraulic hook PZHH05.



CONTAINER DISCHARGE UNITS

The essential factor when discharging recycling bins include safety and speed. Through the precise handling of the crane, the automatic stroke limitation and the integrated pendulum brake, the driver receives a complete solution that allows him to keep an eye on the environment. This is a plus in terms of safety especially when careless passers-by are involved

Efficient operation of the implement is made possible by economical one-person operation and short cycle times. The emptying devices are available for ring- and the mushroom-system.



RING SYSTEM

PZC251 | PZC451

- For the first time also available as a 4.5 t variant
- Save time with the shorter emptying cycle
- Extremely compact and robust construction
- The optional pendulum brake ensures precise positioning at low swinging.
- The integrated pressure relief valve ensures safe working even with higher operating pressure of the crane.



MUSHROOM SYSTEM

PZC250P

- Robust mechanism with automatic centering and hydraulic locking
- The pendulum brake and the flange rotator ensure precise positioning with minor fluctuations.
- The integrated pressure relief valve ensures safe working even at higher operating pressure of the crane.



MUSHROOM- AND RING SYSTEM

PZC250PR

- The ideal solution for recycling companies that need to empty both conventional ring system containers and mushroom-type containers.
- Compact construction and therefore low overall height
- The standard pendulum brake and the flange rotator ensure precise positioning with minor fluctuations.
- The integrated pressure relief valve ensures safe working even at higher operating pressure of the crane.



RINGSYSTEM

PZC250R

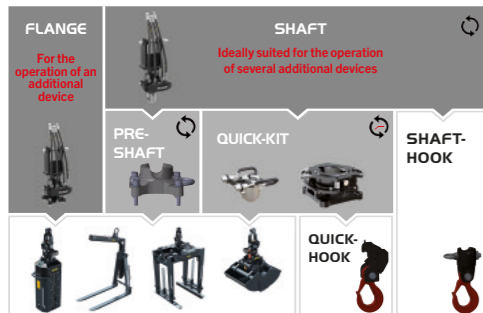
- PALFINGER offers two discharge units especially for containers with ring systems.
- On the one hand the compact PZC220R and the simpler PZC250R.
- Both are characterized by a robust and durable mechanism and, like all PALFINGER discharge units, also have an integrated pendulum brake and a flange rotator.

DISCHARGE UNIT CONFIGURATION OPTIONS



OPTION	DESCRIPTION	CODE	PZC251	PZC451	PZC250PR	PZC250P	PZC250R
Basic data	Load capacity [kg]		2500	4500	2500	2500	2500
	Working pressure max. [bar]		350	350	370	370	370
	Overpressure protection		●	●	●	●	●
	Recommended rate of flow [l/min]		40	40	25 – 70	25 – 75	25 – 75
	Height [mm] (incl. Rotator)		1160	1160	1055	1490	1400
	Lift of the hook max. [mm]		500	500	500	500	500
	Weight [kg] (incl. Rotator and hoses)		178	178	180	210	135
Additional equipment	Containersystem:						
	double ring system (parallel)	RING2P	●	●	●	--	●
	mushroom system	MUSHRO	--	--	●	●	--
	Pendulum brake	PENDLB	○	○	●	●	●
	Hook and support	PZCDD	--	--	○	○	○
Docking device	PZZC-HS	--	--	○	○	--	
Crane connection	FLANGE		○	○	●*	●*	●*
	SHAFT		○	○	--	--	--
	PRE-SHAFT		○	○	--	--	--
	SHAFT-HOOK		○	○	--	--	--
	PRE-QUICK		○	○	--	--	--
	QUICK-KIT		○	○	--	--	--
	QUICK-HOOK		○	○	--	--	--

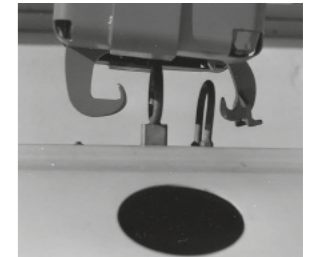
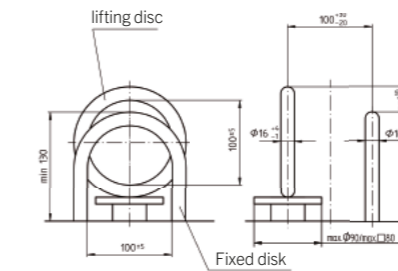
● Standard ○ Optional -- Not available
* incl. upper suspension, without connection hoses



ADDITIONAL EQUIPMENT

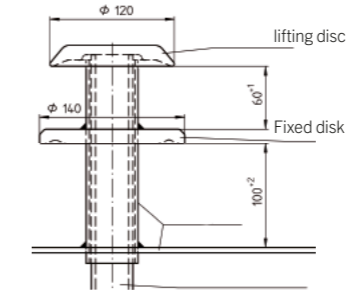
DOUBLE RING-SYSTEM [RING2P]

Safe operation of the container discharge unit can only be ensured if the containers are discharged with the rings in the appropriate distance and dimension.



MUSHROOM-SYSTEM [MUSHRO]

Safe operation of the container discharge unit can only be guaranteed if the containers are equipped with the corresponding original lifting and fixed disks. These are available on request



PENDULUM BRAKE [PENDLB]

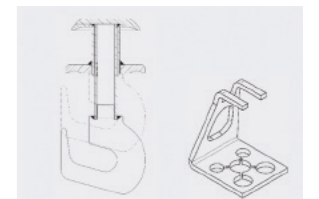
The pendulum brake dampens the swinging of the container discharge unit and is therefore a must for a fast and precise working



HOOK AND SUPPORT [PZCDD]

To allow a temporary crane hook operation, a suitable hook with a transport support is available. The support is picked up like a container and can then be used as a hook.

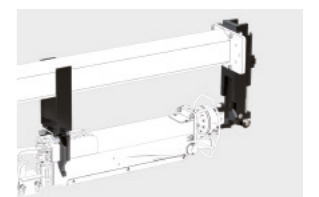
Payload [kg] 2500
Weight [kg] 14



DOCKING DEVICE [PZZC-HS]

A docking device is available for container discharge units PZC250P, PZC250R and PZC250PR. By using a hydraulic cylinder, the discharge unit is applied to the extension boom. In the unlocked state, the device acts as a hydraulic pendulum brake. The integrated solenoid valve allows the switching of the hydraulic circuit.

Working pressure max. [bar] 280
Folding angle [°] 90
Weight [kg] 70



EARTH AUGER

You need foundations for a carport, a mast or a street sign? With the earth auger as a tool for your loader crane, this work can be done in the shortest time and without any additional use of excavators. Whether earth, gravel or slightly rocky ground - with the right drill teeth, the auger becomes an all-rounder.

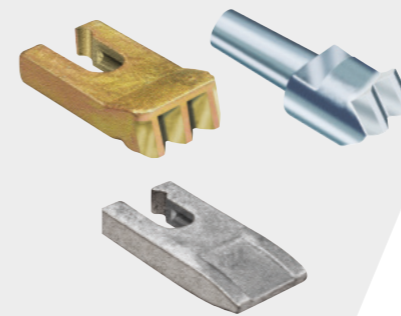
With minimal effort, you drill holes with the necessary diameter - without the annoying and material-intensive slope angle that results from classic digging work.



BEG

Auger drive

- Highest drilling performance and durability are the hallmark of the auger drives, which produce torque from 925 to 7500 Nm.
- The integrated NDS - Non-Dislodge Shaft - prevents the shaft from falling out at any time. An absolute must for work safety.
- An integrated service port allows fast and easy oil changes.
- No leak oil line necessary.



EBG 077

Drilling teeth

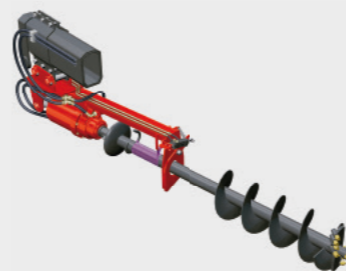
- Optimum drilling properties due to subsoil-specific drill teeth for earth, gravel and stony soils.
- The connection between tooth and auger varies depending on the tooth and aims for maximum durability and easy serviceability.



EBG AND BEG12

Augers and extensions

- The augers are available with a diameter of 150 to 900 mm.
- The attachment to the auger drive is easy by means of bolts.
- Depending on the crane geometry, the corresponding extensions allow a drilling depth up to 7 m - with a diameter up to 600 mm.



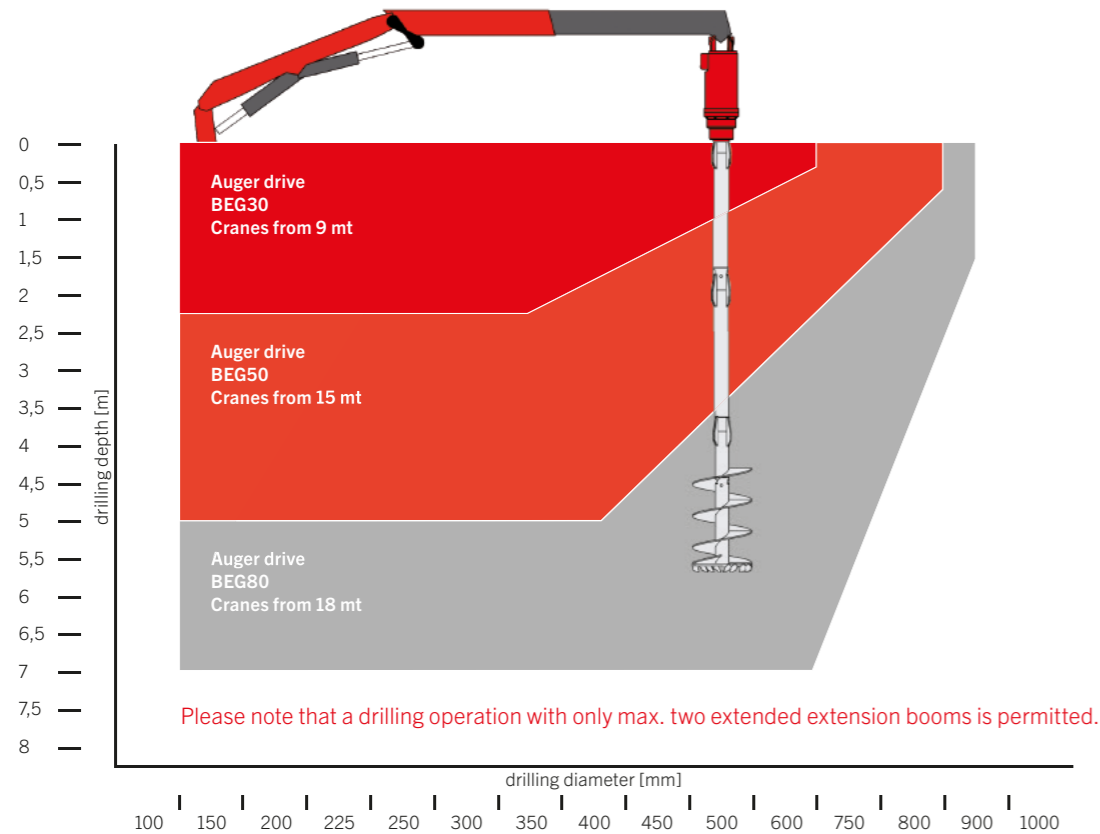
BEGAV20

Docking device

- The docking device with specially adapted augers drills facilitates the safe placement of the auger.
- It reduces downtime for dismantling and reinstalling the auger when changing tools or when hook operation in between.

This requires a technical clarification with PALFINGER!

POSSIBLE COMBINATIONS SELECTION OF THE APPLICATION



CRANE CONNECTION

For the connection to the crane you have to use MFA and the earth auger adapter. You find them in the chapter Multifunctional adapter.

AUGER DRIVE

TECHNICAL DATA	BEG30	BEG50	BEG80
For operation, one hydraulic circuit on the crane is necessary!			
Drilling diameter [mm]	150 – 600	150 – 800	150 – 1000
Working pressure [bar]	80 – 260	80 – 260	80 – 260
Overpressure protection	●	●	●
Recommended rate of flow [l/min]	20 – 50	20 – 50	20 – 50
Drive torque* [Nm]	925 – 3007	1542 – 5012	2313 – 7517
Rotation speed [U/min]	27 – 68	16 – 41	11 – 27
Weight [kg]	73	94	97

* The maximum drive torque must not exceed the half of the crane slewing torque.

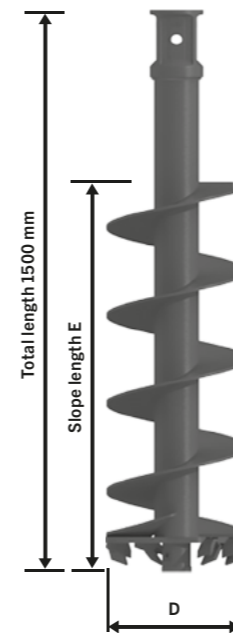
● Standard ○ Optional -- Not available

AUGER EXTENSION



Length C [mm]	shaft length [mm]	Shaft exit [mm]	Weight [kg]	Code
500	114	□ Square 57	18	BEG12-500
1000	114	□ Square 57	25	BEG12-1000
1500	114	□ Square 57	26	BEG12-1500
2000	114	□ Square 57	30	BEG12-2000

AUGER



Drilling diameter D [mm]	Slope length E [mm]	Weight [kg]	Code				
			Earth and clay	dry and hard surfaces, gravel layers	Number of drilling teeth	Soft rock	Number of drilling teeth
150	1080	36	EBG150E	EBG150T	--	EBG150R	--
200	975	42	EBG200E	EBG200T	2	EBG200R	3
225	975	46	EBG225E	EBG225T	2	EBG225R	4
250	965	47	EBG250E	EBG250T	2	EBG250R	4
300	900	53	EBG300E	EBG300T	4	EBG300R	5
350	900	58	EBG350E	EBG350T	4	EBG350R	6
400	875	63	EBG400E	EBG400T	5	EBG400R	7
450	750	68	EBG450E	EBG450T	6	EBG450R	8
500	750	75	EBG500E	EBG500T	6	EBG500R	9
600	750	86	EBG600E	EBG600T	8	EBG600R	11
750	700	103	EBG750E	--	9	--	--
800	700	118	EBG800E	EBG800T	9	EBG800R	15
900	700	138	EBG900E	EBG900T	10	EBG900R	17

WEAR PARTS

Ground	Drilling tooth	Code	Auger pilot	Code
Earth and clay		EBG 077E		EBG 077EH
dry and hard surfaces, gravel layers (Tungsten-Universal)		EBG077T		EBG 077TH
Soft rock, asphalt		EBG 077R		EBG 077RH

HYDRAULIC HOOK

The PALFINGER hydraulic crane hooks allow the crane hook to be opened and locked using crane hydraulics and have been specially developed for applications in construction and transport as well as recycling applications.

In the installation use, they facilitate the positioning and suspension of loads in exposed areas.



OPTION

DESCRIPTION

PZHH05

PZC250CH

Basic data

Load capacity [kg]	4500	2500
Working pressure max. [bar]	370	200
Overpressure protection	--	•
Recommended rate of flow [l/min]	2 – 10	2 – 10
Ring diameter max. [mm]	30	38
Weight [kg]	21	46

Additional equipment

Hose protection	--	PZZR450S
-----------------	----	----------

Crane connection*

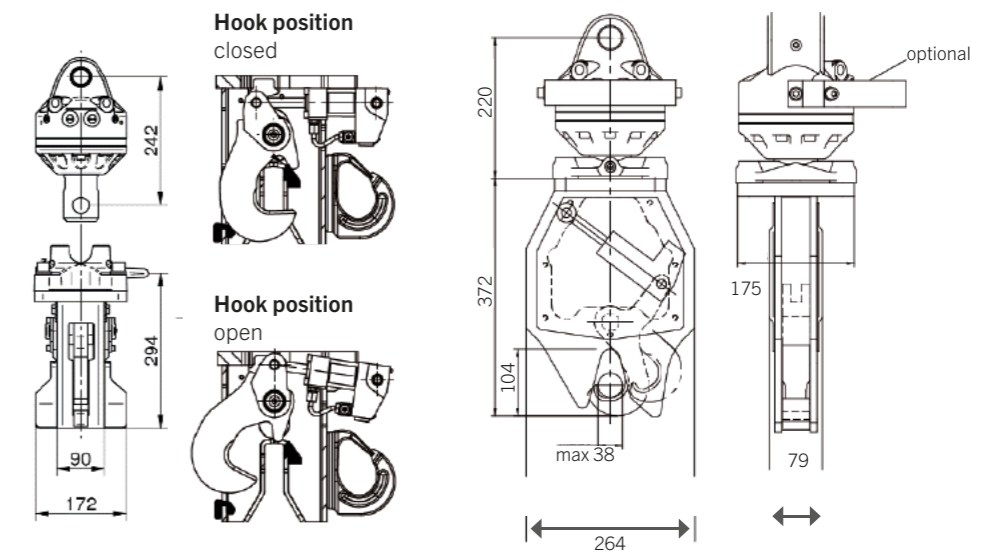
Prepared for shaft rotator (PZZR450R-68)	•	--
With flange rotator (PZR450GF)	--	•

• Standard ○ Optional -- Not available * Details see page 27

TECHNICAL DATA

PZHH05

PZC250CH



PZHH05

- Save time by simply and safely releasing loads at exposed points
- Increase occupational safety by simplifying work processes, such as the possibility of attaching and detaching pallets or universal forks without having to climb onto the platform of the vehicle
- Optimum connection to the rotators, as well as to PALFINGER pallet and universal forks
- The weld-on hook makes it easy to attach bulky goods and big bags

PZC250CH

- Quick and accurate attachment and detachment of containers or loads with eyelets
- Thanks to the compact design a low overall height is reached
- The robust mechanism with hydraulic cylinder ensures the opening and closing of the load hook
- The V-shaped cut-out on the hook facilitates ring reception

ADAPTER PLATE FOR UNIVERSAL FORK

If your universal fork is equipped with the adapter (P-PZHH) instead of a rotator, the universal fork can also be operated comfortably and highly efficiently with the hydraulic hook PZHH05.



LIFTING ACCESSORY PACKAGE

Anyone moving loads with a loader crane every day, expects safety, comfort and efficiency. With one of our two special packages, made of components of the highest safety and long life, we fulfill these expectations 100%.



BARRIER LIFTER

The barrier lifter is the perfect tool for manipulating concrete barriers. The mechanical clamping system with gripping jaws made of diamond carbide enables efficient one-person operation. By simply repositioning the locking pin various clamping ranges can be adjusted. Since no oil supply is required for this system, it is cost-effective to retrofit almost every crane.

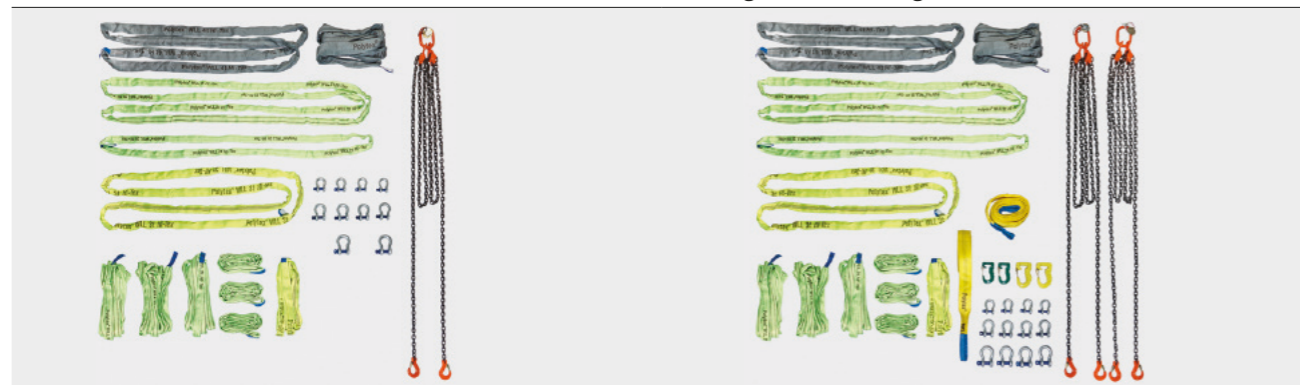


PZ-BASIC

- 4 round slings 3-layer – 2 t – length 2 m
- 4 round slings 3-layer – 2 t – length 4 m
- 2 round slings 3-layer – 3 t – length 3 m
- 2 round slings 3-layer – 4 t – length 3 m
- 4 bow shackles high strength cap. 3250 kg
- 4 bow shackles high strength cap. 4750 kg
- 2 bow shackles high strength cap. 6500 kg
- 1 chain sling 3.55 t – 4.5 m - shortenable

PZ-PREMIUM

- 4 round slings 3-layer – 2 t – length 2 m
- 4 round slings 3-layer – 2 t – length 4 m
- 2 round slings 3-layer – 3 t – length 3 m
- 2 round slings 3-layer – 4 t – length 3 m
- 2 load hooks for round slings – 2 t
- 2 load hooks for round slings – 3 t
- 4 bow shackles high strength cap. 3250 kg
- 4 bow shackles high strength cap. 4750 kg
- 4 bow shackles high strength cap. 6500 kg
- 2 chain slings 3.55 t – 4.5 m - shortenable
- 2 lifting belts – 3 t – length 5 m

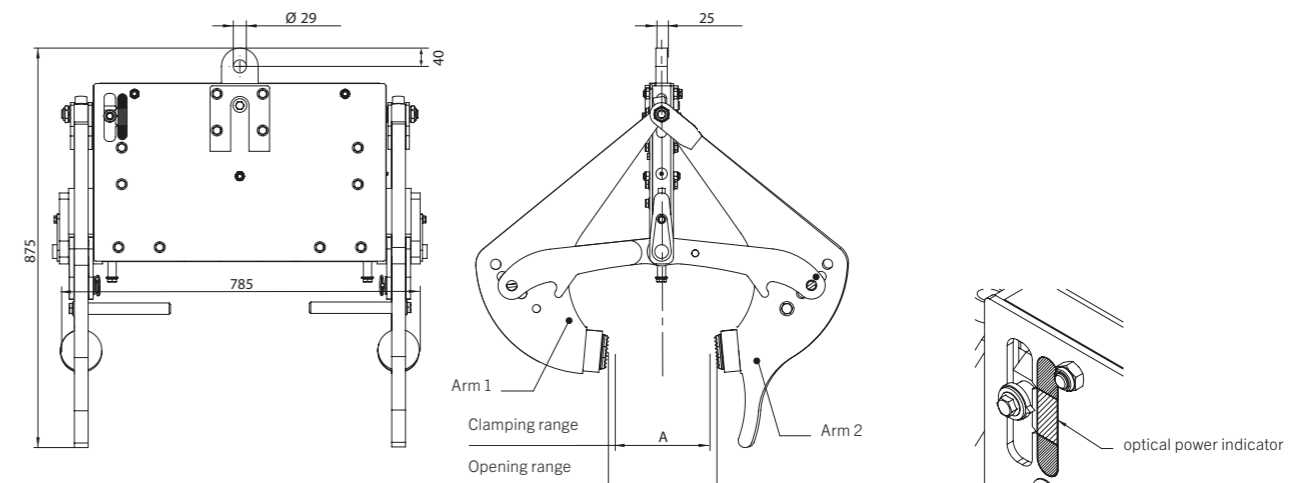


TECHNICAL DATA

PZB932-6/10

PZB932-12/14

Clamping range A	[mm]	115 – 305	295 – 395
Load capacity	[kg]	6580	6580
Weight	[kg]	162	150



CAR LIFTING DEVICES

The car lifting devices which are designed for daily use ensure easy loading and unloading of vehicles up to max. 3.5 t. In addition, they offer optimum protection against damage due to the possibility of individual adaptability to the respective vehicle.



OPTION	DESCRIPTION	CODE	3.5 t	
			PZLG35PK	
Basic data	lifting system		With rotator connection for rotary motion and hydraulic center of gravity compensation (2 hydraulic circuits on the crane required)	
Technical data	Load capacity [kg]		3500	
	Working pressure max. [bar]		210	
	Overpressure protection		--	
	Weight [kg]		185	
Additional equipment	Wheel clamp set for tire width 355 mm	PZTC01-1	●	
	hoisting sling set	PZLS01	●	
	Bracket for mounting on the vehicle	PZLG35B PZLG20B	● --	
Crane connection	Flange rotator package		● Suitable flange rotator, connecting hoses, upper suspension (UL045)	
			Transport position	Working position

● Standard ○ Optional -- Not available

ADDITIONAL EQUIPMENT

Wheel clamp set consists of 4 wheel clamps

PZTC01-1

Load capacity	900 kg / Clamp
Tire width	355 mm
Wheel size	12 – 19 inch
Weight	17 kg



Hoisting sling set consists of 4 hoisting slings

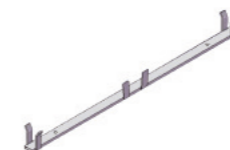
PZLS01

Load capacity	892 kg / Hoisting sling		
Length (adjustable)	1.3 m	1.5 m	1.7 m
Width	50 mm		



Bracket for mounting on the vehicle

PZLG35B



MANIPULATORS

- The manipulator is ideal for lifting and positioning pipes and masts.
- Agility because of three hydraulic functions: gripping, turning and swiveling (third hydraulic control circuit or electric changeover valve required) and endless swivel range for efficient operation
- High payloads from 500 kg to 3000 kg
- Precise positioning by the rotator with mechanically acting, hydraulically-releasable brake for rotary motion

To get the crane best prepared for the manipulator application, we recommend a technical check in our Tuning Center in any case.



TECHNICAL DATA

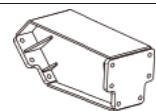
	PZM 500	PZM1000	PZM2000	PZM3000
We, at PALFINGER, are happy to assist you to create a complete system				
Load capacity [kg]	500	1000	2000	3000
Working pressure max. [bar]	200	200	250	250
Overpressure protection	--	--	--	--
Recommended rate of flow [l/min]	20 – 40	20 – 40	20 – 40	20 – 75
Closing force [kN]	11	23	32	62
Number of gripper arms	1	2	4	6
Pipe diameter [mm]*	175 – 300	100 – 300	250 – 600	250 – 600
Overall width [mm]	785	1300	1300	2560
Swivel range	continuous	continuous	continuous	continuous
Weight [kg]	235	310	910	1360

* Other pipe diameters are available on request.

Tubes or poles have to be grabbed always in the center of gravity!

OPTIONS

Changeover valve for 3rd control circuit	PZMMV (24V) PZMMV-12V (12V)	PZMMV (24V) PZMMV-12V (12V)	PZMMV (24V) PZMMV-12V (12V)	PZMMV (24V) PZMMV-12V (12V)
45° Adapter	PZMA45	PZMA45	PZMA45-2	PZMA45-2



PULL IN PARTS

	PZM 500	PZM1000	PZM2000	PZM3000	
	For hexagonal extension boom A [mm] B [mm]		Usage	Weight [kg]	
	123	62	BB040ES01AU	37	
	155	79	BB040ES02AU	40	
	188	98	Crane > 30mt Crane < 30mt	BB040ES03AU BB040ES04AU	40 40
	224	120	Crane Fly-Jib	BB040ES05AU BB040ES13AU	43 43
	260	138	Crane Fly-Jib	BB040ES06AU BB040ES14AU	44 44
	296	158	Crane > 30mt Crane < 30mt	BB040ES08AU BB040ES11AU	48 48
	237	146		BB040ES09AU	52
	282	170		BB040ES15AU	55
	327	198		BB040ES16AU	57
			HXE7196		

We offer pull in parts on request that are specially adapted to crane and manipulator

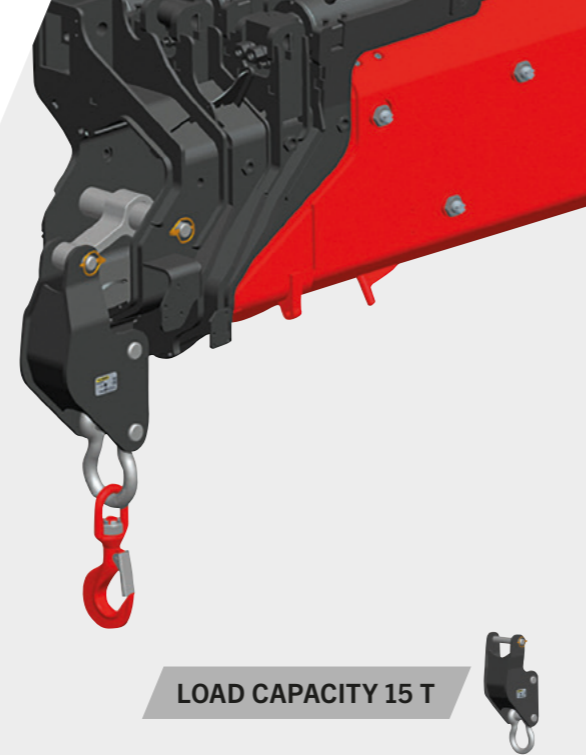
SPECIAL APPLICATIONS

*In some combinations, mechanical adaptations of the pull in part may be needed. A Plug & Play solution can be requested in our Tuning Center.



SPECIAL LOAD ATTACHMENT

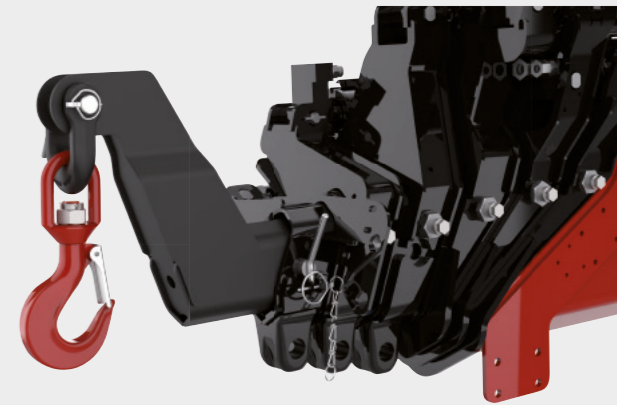
Suitable for a variety of cranes, the special load suspension allows trouble-free working in all arm positions. The shackle is included. The simple mounting on the hexagonal crane arm and the possibility of mounting a PALFINGER rotator are further advantages.



LOAD CAPACITY 15 T

INSTALLATION TIP

- Load capacity up to 20 t
- Easy installation on the crane arm
- Ideal for working through windows or door openings due to the offset load handling point
- Installation tips for use on other extension variants, both on the fly jib and on the crane, are available on request.



CRANE TYPES

Hydraulic extension on the crane

	A	B	C	D	E	F	G	H
PK 36502 / 41002-EH / 41002-MH	KMG03645A	KMG03653A	KMG03654A					
PK 40002-EH / 42002-SH	KMG03645A	KMG03653A	KMG03654A					
PK 44502 / 48002-EH / 48002-MH	KMG03645A	KMG03653A	KMG03654A					
PK 50002-EH / 53002-SH	KMG03645A	KMG03653A	KMG03654A					
PK 56502 / 62002-EH / 62002-MH	KMG03645A	KMG03653A	KMG03654A					
PK 63002-EH / 65002-SH	KMG03645A	KMG03653A	KMG03654A					
PK 76002-EH / 78002-SH			KMG03649A					
PK 88002-EH / 92002-SH			KMG03645A		KMG03644A			
PK100002 / 110002-SH		KMG03665A	KMG03666A			KMG03639A	KMG03638A	KMG03637A

FLY-JIB TYPES

Hydraulic extension on the fly-jib

	A	B	C	D	E	F	G	H
PJ 060	KLG003ASA	KLG010ASA						
PJ 080		KLG011ASA	KLG010ASA					
PJ 125			KLG009ASA		KLG010ASA			
PJ 170					KLG011ASA			

CRANE TYPE P-PROFIL

Hydraulic extension on the crane

	A	B	C	D	E	F	G	H
PK 1050 TEC							KLG112ASA	
PK 1350 TEC								KLG126ASA
PK 1650 TEC								KLG126ASA
PK 200002L SH								KLG113ASA



PALFINGER offers a wide range of installation tips for SLD, EH and SH cranes. For an overview of the available variants, please follow the QR code. (Paldesk access required)

WEIGHT MEASUREMENT SYSTEMS





With the PALFINGER weight measurement systems, you can weigh a wide variety of goods quickly and with the greatest possible accuracy.

Both systems have been specially designed to be robust and efficient execution. Depending on the application, we offer a load measuring shackle or the load measuring link, either with a Bluetooth app or with a radio handheld display.

Your advantages

- Robust construction, all critical components are in a protected housing
- Ready for use anywhere thanks to the use of standard AA batteries
- Maximum battery life because of intelligent control of the radio signal
- Excellent resistance to moisture and dirt (IP67)
- Versatile display of the weighing result (tons / pounds / Kilogram / kilonewton)
- Adjustable overload alarm (visual and acoustic signal)
- All systems are delivered in a robust metal case, including Test certificate, operating instructions and initial batteries



DESCRIPTION	PZWMS012	PZWML012	PZWMS012-BT	PZWML012-BT
Advantages	 <ul style="list-style-type: none"> • compact design • easy handling • No additional Shackle necessary 	 <ul style="list-style-type: none"> • highest measurement accuracy • Weighing certificate +/- 0.1% • Protected construction 	 <ul style="list-style-type: none"> • compact design • easy handling • No additional Shackle necessary • For iOS or Android 	 <ul style="list-style-type: none"> • highest measurement accuracy • Weighing certificate +/- 0.1% • Protected construction • For iOS or Android
Messbereich	1200 kg – 12000 kg	360 kg – 12000 kg	1200 kg – 12000 kg	360 kg – 12000 kg
Accuracy	+/- 1%	+/- 0.1%	+/- 1%	+/- 0.1%
Units	t / kN / kg / lb	t / kN / kg / lb	t / kN / kg / lb	t / kN / kg / lb
Measuring grid	10 kg	2 kg	10 kg	2 kg
Weight	8	3.7	8	3.7
Frequency	2.4 GHz	2.4 GHz	Bluetooth	Bluetooth
Battery Life	1200h-shackle / 60h-handheld	1200h-shackle / 60h-handheld	500h-shackle	500h-shackle
Reach	700 m	700 m	100 m	100 m
Scope of delivery	Load measuring shackle Centering coil Hand display Transport case operation manual Test certificate 6 x AA batteries	Load measurement link Hand display Transport case operation manual Test certificate 6 x AA batteries	Load measuring shackle Centering coil Free app for iOS or Android (link) Transport case operation manual Test certificate 4 x AA batteries	Load measurement link Free app for iOS or Android (link) Transport case operation manual Test certificate 4 x AA batteries

PZWMS012(-BT)



Load measuring shackle



Optionally with **handheld** or **Bluetooth APP**

PZWML012(-BT)



Load measurement link



Optionally with **handheld** or **Bluetooth APP**

KP-CRANETOOLSM3+EN

The shown cranes are partly equipped with optional equipment and do not always correspond to the standard version. For crane construction, country-specific regulations must be observed. Dimensions are not binding. Subject to technical changes, errors and translation errors.