

LOADER CRANES

PK 48002-EH



SPECIFICATION

PK 48002-EH - Loader Crane High Performance Range

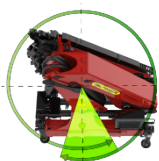
BASIC UNIT:

- Lifting moment 456.3kNm (46.5mt)
- Classification HC1 HD4/B3 in EN12999
- Electronic HPLS - control unit (for two pressure settings)
- High extension speed by applying return oil utilization and oil passage through the cylinders
- Double linkage with Power Link Plus 15°
- Low maintenance boom system
- Internally routed hoses between main boom and knuckle boom
- Rack and pinion slewing system
- Slewing angle 400°
- Control valve prepared for constant pump
- Electrical change over between crane and stabilizer control
- Control for crane stabilizers and additional stabilizers by means of a separate control valve
- Spiral hose from crane base to main boom
- Box level on both control panels

HE - Certification

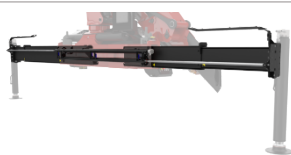
Installation declaration

Rigid stabilizer plates



TOQU - Dead centre over leg beam

The end stops of the slew rack are located over the leg beam

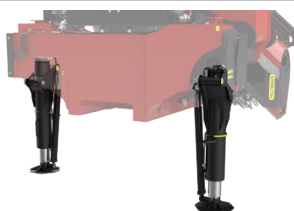


R3X - Outriggers hydraulic, long

Hydraulically extendable with separate stabilizer controls

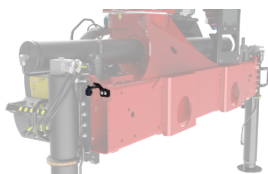
Double hydraulic outrigger lock without additional mechanical lock

- Reduction of setup time
- Safety during operation



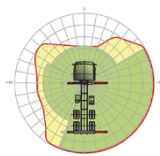
STZY - Stabilizer legs 180° hydr. tiltable

- Increase of ground clearance
- Space-saving crane installation with truck components possible
- No manual slewing of the stabilizer legs necessary
- Stabilization of the crane over obstacles possible



AUSW - Check of outrigger transport position

Check if hydraulic outriggers are in retracted position
Wired to electrical box on the crane with output for optical and acoustical signal



HPSC - Stability system HPSC

High Performance Stability system by PALFINGER real data algorithm
Calculation of the permitted working area for each slewing angle of the boom system and for each support situation

Increase of operational safety
Compliance with EN12999
Utilization of the maximum lifting capacity at each point of the fully variable working range



STU01 - Hour counter

Crane hour counter (digital or via PALdiag)



TRAN2 - Check of crane transport position

Crane boom parked above the platform
Limiting switch on crane column or main boom for indication of transport position
Wired to an electric switch box
With output for optical or acoustical signal



AOS - Active Oscillation Suppression AOS

The patented PALFINGER ACTIVE OSCILLATION SUPPRESSION (AOS) system dampens the boom system of the crane, compensating for vibration and shock.

- Pinpoint, significantly faster crane work possible
- Sensitive setting works possible
- Avoids damage to the load, truck and buildings
- Emptying "concrete buckets" without post-oscillation
- Beginners can operate the crane with more precision and care
- Experienced crane operators can move the crane much faster without having to compromise precision and sensitivity
- At abrupt stops or load changes an oscillation of the load is avoided
- No uncontrolled movements of the boom system in the event of unloading
- Significant safety increase during crane operation for staff, load and buildings



PAL50 NON-CE - Paltronic 50 NON-CE version

Electronic overload protection incl. emergency cut-off
Without stability monitoring system
Without check of transport position boom system
Without check of transport position outriggers

Overload protection of the crane
Display of the load
Display of the equipment status



PTT01 - Paltronic display

Paltronic terminal at the main control station.



E - 6-section hydr. extension boom

STEIL - Geometry control

Sensors for the detection of the boom angle mounted on the crane
Preparation for monitoring and comfort functions
Extension of the overload protection system according to EN12999

Automatic adjustment of the lifting capacity in critical boom positions
Reduction of the danger of operating errors

RC001 - RRC with DANFOSS control valve

SCANRECO-remote control with up to 6 proportional functions
8 on/off-functions prepared on handset, 3 speed-selection, transmitter and receiver;
10m (Scanreco) remote control cable for alternative operation;
Battery charger, 2 batteries, automatic frequency shift when taking in operation, hip belt and neck strap;
Emergency cut-off solenoid valve, 24 volt system (12 volt on request), crane without cross rods and without additional valve element;
Additional functions for standard crane functions, incl. wiring up to crane terminal box (e.g.: HPLS, OLP, AOS);
Acoustic warning (102dB) incl. push-button, wired on the crane (identical with HUPE for 12m warning for EN12999).
The number of functions results from the actual crane functions and is not selectable

LINEA - Linear levers Scanreco

Control levers of the radio remote control in linear version

FF4 - Functions RRC

4 functions

MOT01 - Engine start

MOT02 - Engine stop

GAS01 - Acceleration +/-

SMALL - Small handset

Ergonomic handset for the operation of the crane

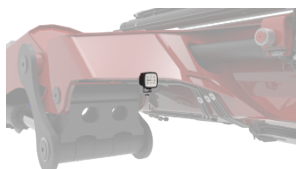
LICHT - Working light on/off

UMSCH2 - Switch crane/stabilizers on RRC-handset

Standard for stabilizers with manual stabilizer control

PU003 - Preparation for variable pump

Control valve prepared for variable pump



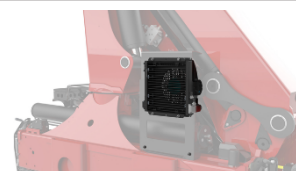
SCH03L - Working light

LED-working light Premium installed at the knuckle boom



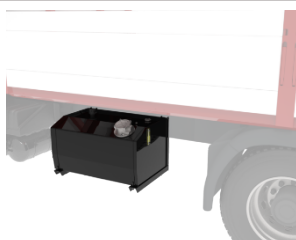
RALSTD - Standard colour RAL3020

Painting RAL3020



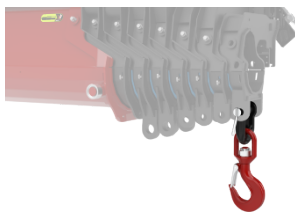
ÖLK07 - Oil cooler 10,5kW, mounted

Longer service life of the oil, seals, valves and other hydraulic components through lower oil temperature

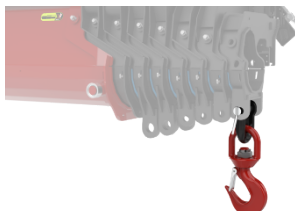


TL300 - 300l hydraulic oil tank loose

The shut-off valve and the elbow fitting are included



LH08.0 - Load hook
8t load hook with slide bearing



LH18.0 - Load hook
18t load hook with roller bearing



BRI-8 - Mounting parts; bolts 8 pcs.



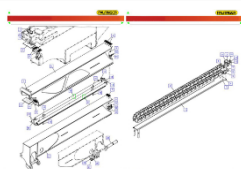
24V - Electricity
24 volts



HDF03 - High pressure filter
High pressure filter for single circuit system - mounted



VPACK - Crating
Crane on pallet, accessories in boxes



EKAT - Spare parts catalogue

BTASPR - Language operator's manual
EN English

CDSPR - Language USB Stick
EN English

EQUIPMENT



BS005 NON-CE - BS005 Additional Stabilizers (NON-CE)

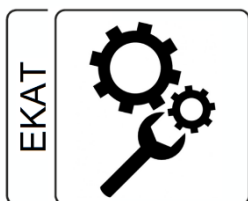
- max. supporting force 140 kN
 - max. support width 5200 mm
 - hydraulic extendable outriggers
 - suitable for mounting below vehicle frame
 - internal mounting of hydraulics and electrics
 - maintenance-low outrigger system
 - 24° metric fittings
-
- developed and produced at PALFINGER
 - low dead weight = higher payload
 - high permissible supporting forces
 - all supporting cylinders are equipped with tiltable stabilizer pads
 - fully variable supporting position available
 - up to 50% improved stability
 - protected hoses and cables due to the inside mounting
 - maintenance optimized outrigger system
 - high working speed due to return oil utilization
 - high quality KTL coating prevents corrosion

LAND-EU - Country Specification Europe

HE - Declaration of Incorporation

KRABSPR - Language Certification

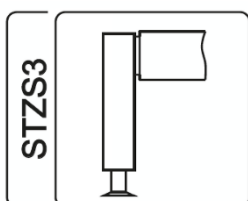
DE German



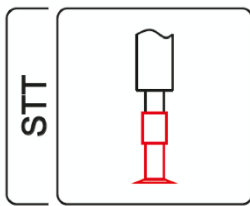
EKAT - Spare Parts Catalogue

CDSPR - Language Documentation

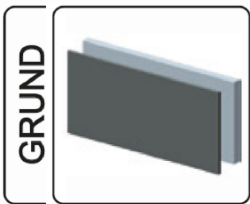
EN English



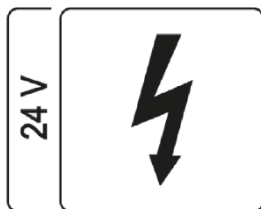
STZS3 - Rigid Stabilizer Cylinders



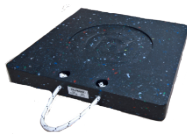
STT100 - Stabilizer Plates Extension 100 mm



GRUND - KTL Coated
- high corrosion resistance



24V - Electrics 24 Volt



EZ2189-500 - Stabilizer Pad Square, 500 x 500 x 60 mm
stabilizer pad square made of recycling plastic
dimensions (L x W x H): 500 x 500 x 60 mm
support load: 26 t
weight: 15 kg



EP 770R - Load Sensing Pump (R) 92 l/min
HYDRO LEDUC Axial Piston Load Sensing Pump
Technical Data:
- displacement volume at 1000 rpm: 92 l/min
- rotation: clockwise (R)
- max. speed: 1900 rpm
- max. pressure: 400 bar
- max. torque: 515 Nm
- overhang torque: 34 Nm
- dead weight: 26 kg
- dimensions (LxWxH): 276 x 125 x 248 mm
- incl. suction connection 1½" - 60 mm - 0° (EA1867-60)



EZ2236-500 - Transport Box für 1x EZ2189-500
transport box for one stabilizer pad square 500 x 500 x 60 mm (EZ2189-500)
weight: 11 kg

KSC00012C - 2-Section Valve for Add. Stab. (VDM07)
without return oil utilization

suitable for:
BS001-BS007, BS017-BS019, front and frame stabilizers

YOUR SPECIFICATION

Position	Pcs	Description
PK 48002-EH	1	Loader Crane High Performance Range
HE	1	Certification
LAAU	1	Country code
TOQU	1	Dead centre over leg beam
R3X	1	Outriggers hydraulic, long
STZY	1	Stabilizer legs 180° hydr. tiltable
AUSW	1	Check of outrigger transport position
HPSC	1	Stability system HPSC
STU01	1	Hour counter
TRAN2	1	Check of crane transport position
AOS	1	Active Oscillation Suppression AOS
PAL50 NON-CE	1	Paltronic 50 NON-CE version
PTT01	1	Paltronic display
E	1	6-section hydr. extension boom
STEIL	1	Geometry control
RC001	1	RRC with DANFOSS control valve
LINEA	1	Linear levers Scanreco
FF4	1	Functions RRC
MOT01	1	Engine start
MOT02	1	Engine stop
GAS01	1	Acceleration +/-
SMALL	1	Small handset
LICHT	1	Working light on/off
UMSCH2	1	Switch crane/stabilizers on RRC-handset
PU003	1	Preparation for variable pump
SCH03L	1	Working light
RALSTD	1	Standard colour RAL3020
ÖLK07	1	Oil cooler 10,5kW, mounted
TL300	1	300l hydraulic oil tank loose
LH08.0	1	Load hook
LH18.0	1	Load hook
BRI-8	1	Mounting parts; bolts 8 pcs.
24V	1	Electricity
HDF03	1	High pressure filter
VPACK	1	Crating
EKAT	1	Spare parts catalogue
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HE	1	Declaration of Incorporation
KRABSPR	1	Language Certification
EKAT	1	Spare Parts Catalogue
CDSPR	1	Language Documentation
STZS3	1	Rigid Stabilizer Cylinders
STT100	1	Stabilizer Plates Extension 100 mm
GRUND	1	KTL Coated
24V	1	Electrics 24 Volt
EZ2189-500	4	Stabilizer Pad Square, 500 x 500 x 60 mm
EP 770R	1	Load Sensing Pump (R) 92 l/min
EZ2236-500	4	Transport Box für 1x EZ2189-500
KSC00012C	2	2-Section Valve for Add. Stab. (VDM07)

YOUR BENEFITS

Power Link Plus

The PALFINGER Power Link Plus system is a double linkage system with a linkage on the knuckle boom and a linkage between the main boom and crane column. With the 15 degree reverse linkage system, reaching through low door openings or working inside buildings is no problem.



Low-maintenance extension system

With sliding elements made of synthetic material and the high-quality KTL coating, this boom system significantly simplifies service performed by the operator. This saves time and money – and protects the environment.

Internal hose routing system through the column

Avoiding damage of the hydraulic hoses as well as compact set-up dimensions are possible thanks to the internal hose routing system.

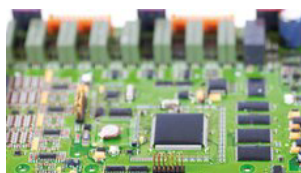


YOUR OPTIONAL BENEFITS

ATTENTION: Optional items are excluded from configuration dependencies. Prices and technical data subject to change.

Coating Technology

La combinazione di verniciatura catodica e verniciatura a polvere o di finitura bicomponente garantisce i più alti standard di qualità per le superfici delle gru caricatori PALFINGER.



Paltronic

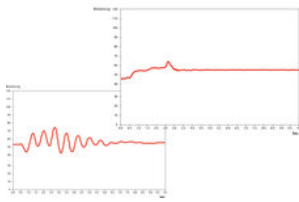
With the PALTRONIC, PALFINGER offers the latest control electronics for the series production crane. Different systems are available depending on the series and the range of functions. The most important safety and comfort functions include such as overload protection and different variations of the stability control system HPSC and High Power Lifting System HPLS.

HPSC

High Performance Stability Control (HPSC) is a proportional system which recalculates and defines the working range and stability of the crane.



Sensors for proportional path measurement are located in the stabilizers, making the positioning fully variable.



AOS

PALFINGER's AOS system (**A**ctive **O**scillation **S**uppression) dampens the boom system of the crane, compensating for vibration and shock, even after a sudden stop of the lifting function. The result is a significant increase in crane operation safety for the operator, loads and surrounding areas.

Radio Remote Control

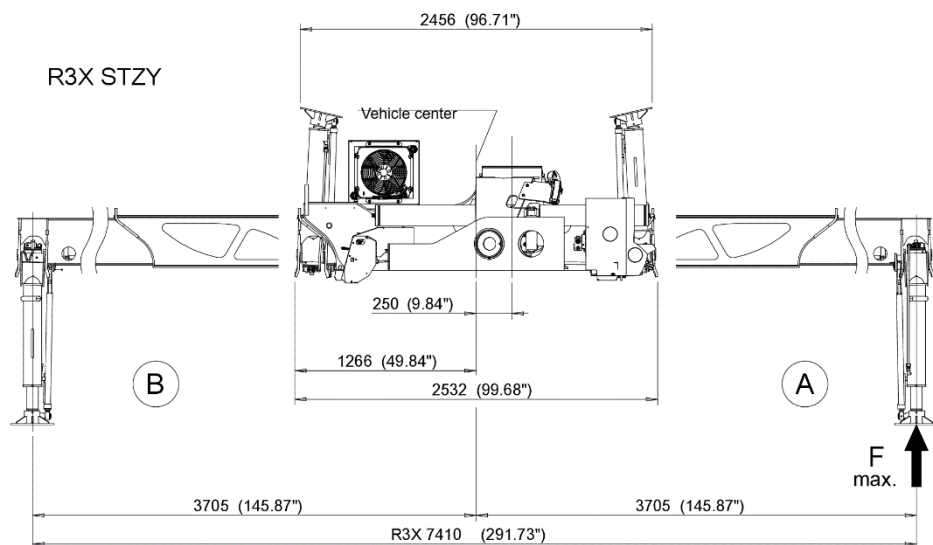
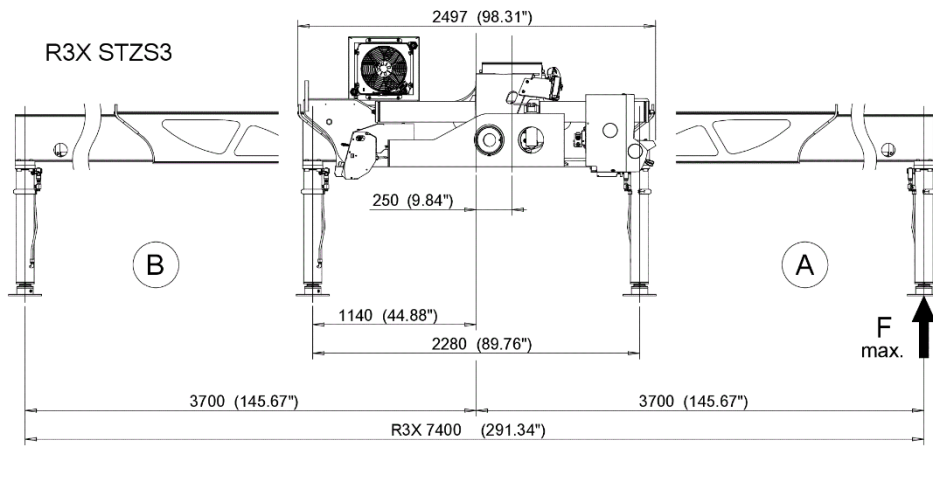
Today, radio remote controls are often considered to be standard equipment when it comes to modern loader cranes. PALFINGER radio remote controls are equipped with a choice of linear lever or cross lever and provide the greatest possible comfort for the operator. For cranes with PALTRONIC, a LED or LCD graphic display informs the crane operator of the different operating conditions.



TECHNICAL DATA

Max. lifting moment	46.5 mt
Slewing angle	400°
Slewing torque with 1 gear	5.5 mt
Max. operating pressure	350 bar
Outreach	16.3 m
Pump capacity (l/min)	80-100

Subject to change, production tolerances have to be taken into account.



Type	Weight: base, control valve, support, oil tank				Stabilizer force	
	STZS3	STZS-STÜ03	STZY	STZY-STÜ01	F max. A	F max. B
LKW	1819 kg (4010 lbs)	1809 kg (3988 lbs)	1919 kg (4231 lbs)	1939 kg (4275 lbs)	153.4 kN (34470 lbs)	144.2 kN (32410 lbs)

Country-specific regulations must be observed. Dimensions may vary. Subject to technical changes, errors and translation mistakes.