

Lifting Jacks

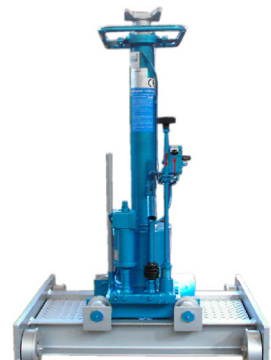
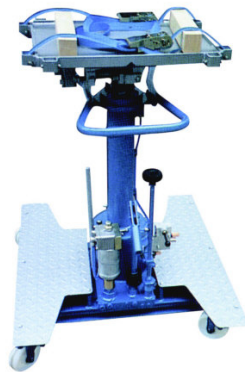
Workshop Presses

Vehicle Lifts

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 Made in Germany



Pit Jacks floor-running Gear Lifts

Georg Kirsten
GmbH & Co. KG

Gartenfeldstraße 17
D-54427 Kell am See
Germany

Tel.: +49 6589 9178 0
Fax: +49 6589 9178 20

www.kirsten.eu

Hydraulic floor-running pit jacks

Type code

Code letter	KH	KIRSTEN Hydraulic pit jack
	U	floor-running
	15	carrying capacity (metric tons)
	L	long stroke 800 mm
	M	motor pump (air motor)
	Z	quick-action operation DOWN
	S	quick-action operation UP
	M 800	is equivalent to LMZS
	HP	hand pump
	SV	lateral movable
	BB	operable both ways
Electric pit jack	E	electro-hydraulic



The pit jacks of the model series **KHU** satisfy the need for more mobility in the pit. The annoying bending down under the chassis frame is no longer required.

It is very easy to switch sides in front of or behind the pit jack simply by conveniently transcending the carriage. The platform of the carriage can also be used as a tray when working on higher parts of the jack.

The operating controls are mounted at a convenient height. The jack can be shifted lengthwise and traverse without a big effort due to standard needle bearings and grease nipples in track rollers.

At carriages type „U“ there need to be mounted roller rails made of flat steel 80 x 10 mm on the load-bearing pit ground. The „U“-carriages will be produced according to existing pit measures.

The freely movable chassis type „F“ will be moved by means of four polyamide guide rolls with ball bearings. At a load of more than 1.000 kg the spring-loaded chassis frame sits down on the pit floor. Dimensions: 780 x 1.010 mm.

The long stroke length of 800 mm guarantees a sufficient lift height over the top edge of the floor at a pit depth of 1.400 to 1.500 mm.

Concerning drive the following lifters differ in the following features:

Type KHU .. L

Hand pump for fast stroke and load stroke. Lowering by opening of the lower valve by means of the hand wheel. Retracting of the unloaded piston rod will be carried out simply by the dead load.

Type KHU .. LZS

Pneumatic fast stroke up to the loading point as well as compulsorily retracting of the unloaded piston rod. The load is lifted by means of a hand pump.

Type KHU .. LMZS

Same construction as LZS, but with an additional pneumatic motor pump (air motor) to lift the nominal load.

Type KHU .. M 800 (HP)

New slim construction with motor pump (air motor) without / with hand pump (HP). Separate push buttons to operate fast stroke and load stroke. Compulsory return.

Type KHU .. LE

Electric drive consisting of under oil motor 3 kW or 4 kW 400 V rotating current and hydraulic pump. The jack is controlled by two push buttons UP/DOWN in the electronic switch board.

All jacks come with standard hard chrome plated piston rods as well as needle bearings and grease nipples on all rollers.

type	carrying capacity kg	stroke mm	height mm	stroke above floor at pit depth 1.400 mm
KHU 11 L KHU 11 LZS KHU 11 LMZS KHU 11 M 800 (HP) KHU 11 LE	11.000	800	1.290	690
KHU 15 L KHU 15 LZS KHU 15 LMZS KHU 15 M 800 (HP) KHU 15 LE	15.000	800	1.310	710
KHU 18 L KHU 18 LZS KHU 18 LMZS KHU 18 M 800 (HP) KHU 18 LE	18.000	800	1.310	710
KHU 22 L KHU 22 LZS KHU 22 LMZS KHU 22 LE	22.000	800	1.310	710
KHU 30 LZS KHU 30 LMZS KHU 30 LE	30.000	800	1.310	710

All types are available with floor-running carriage „U“ or with freely movable carriage „F“.

Operable both-way (BB) and lateral movable (SV; at „F“-carriages) at extra charge.

Hydraulic telescopic floor-running pit jacks

Type code

Code letter	KH	KIRSTEN Hydraulic pit jack
	UT	floor-running - telescope
	15	carrying capacity in t
	/2	number of telescope stages
	M	motor pump (air motor)
	Z	quick-action operation DOWN
	S	quick-action operation UP
	FP	foot pump
	SV	lateral movable
	BB	operable both-way
Electric pit jack	E	electro-hydraulic



KHUT 14/3 MZS
„low construction height“
carriage „U“



KHUT 15/2 MZS
carriage „F“



KHUT 18/3 MZS
carriage „U“

The pit jacks of the model series **KHUT MZS** have the advantage of more mobility in the pit.

Due to the low construction height as well as the long telescopic stroke it is possible to mount and dismount gear drives or other aggregates without any problems. Due to the carrying capacity of the second and third telescope stage it is possible to lift motor vehicles with sufficient height over the top edge of the floor at a pit depth of 1.400 to 1.500 mm.

The slide of the pit jack in the longitudinal direction or in cross direction is possible without a big effort due to standard track rollers with needle bearings and grease nipples.

For „U“ carriages it is necessary to mount runner rails made of flat steel 80 x 10 mm on site on the stable pit floor. The „U“ carriages will be manufactured according to the existing pit dimensions.

The freely movable carriage „F“ will be moved by means of four polyamide guide rollers on ball bearings. At a load of more than 1.000 kg the spring-loaded carriage retains on the pit floor.

Dimensions: 780 x 1.010 mm.

Type KHUT.. MZS

Pneumatic fast stroke up to the loading point. At KHUT 15 and 18 the first and second telescope level will retract by compulsory pneumatic return. At KHUT 14/3 all three telescope levels will be retracted.

The load will be lifted by means of a pneumatically driven motor pump (air motor).

The separate fast stroke and load stroke are controlled by a foot pedal. Lowering by turning the hand wheel.

Type KHUT .. E

Electric drive consisting of under oil motor 3 kW 400 V and hydraulic pump. The jack is controlled by a push button UP/DOWN in the electronic switch box.

Hydraulic retracting of the unloaded first and second telescope level.

All jacks have standard hard-chrome plated piston rods as well as needle bearings and grease nipples on track rollers.

type *	telescope 1+2 carrying capacity kg	telescope 1-3 carrying capacity kg	stroke above floor at pit depth 1.400 mm	construction height mm
	total stroke mm	total stroke mm		
KHUT 14/3 MZS	14.000 ----- 900	14.000 ----- 1.300	585	685
KHUT 15x3 MZS	15.000 ----- 1.300	15.000 ----- 1.300	585	685
KHUT 15/2 MZS**	20.000/15.000 -----	-----	720	920
KHUT 15/2 E	1.200	-----	790	990
KHUT 15/3 MZS	20.000/15.000 ----- 1.200	3.700 ----- 1.770	1.290	920
KHUT 18/2 MZS	18.000 -----	-----	720	920
KHUT 18/2 E	1.200	-----	790	990
KHUT 18/3 MZS	18.000 ----- 1.200	4.500 ----- 1.770	1.290	920
KHUT 22x2 MZS	22.000 ----- 1.200	-----	720	920

All types are available with floor-running carriage „U“ or with freely movable carriage „F“.

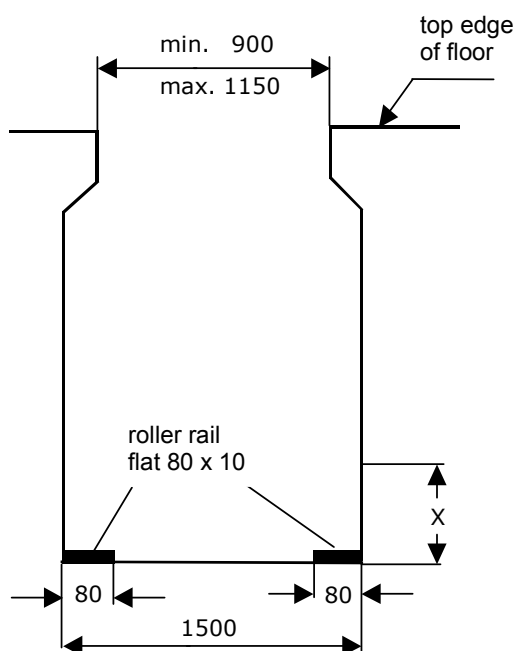
Operable both-way (BB) and lateral movable (SV; at „F“-carriages) at extra charge.

* Foot pump available at extra charge

** The lifting unit is available lateral movable within the carriage (SV) at no extra charge!

All illustrations are without obligation.
Constructions are subject to modification.

Design of the pit for floor-running Pit Jack



The measurements of the drawing are a non-binding suggestion and can differ from the actual pit measurements.

The measure X and the specifications of the roller rails are binding.

The required roller rails consisting of flat steel 80 x 10 have to be fixed approximately every 1.000 mm with a wooden countersunk screw on the pit floor. For that purpose the flat steel has to be centrally drilled at a $\varnothing 6,5$ and deepened. Please put the flat steel horizontally on the pit floor and orientate the track width. Use a 6 mm rock drill to drill through the drill holes of the flat steel deep enough for dowels.

After removal of the flat steel the drill holes in the pit floor have to be drilled for 8 mm dowels. The flat steel has to be screwed to the pit floor with 6 x 50 DIN 97 screws or similar. After this please check the inner width of the track.

Attention!

In the area marked with X (length 250 mm) no wires or other parts should protrude.

Gear Lift freely moveable

The ideal lift to mount and dismount gear boxes and retarder in a pit or at ground level under a lifting platform.



- Pneumatic-hydraulic with fast-stroke
- Compulsory return of first telescope level
- Hand pump for fine stroke, foot pump (FP) available
- Type **MZS** with pneumatic motor pump
- Lift is freely movable with ball bearing polyamide guide rollers
- Dimensions of the carriage 820 x 880 mm
- Standard gear plate GP
- Hard-chrome plated piston rod

type	carrying capacity kg stroke 1 mm	carrying capacity kg total stroke mm	construction height mm
KHTF 2/2 ZS KHTF 2/2 MZS	<u>2.000</u> 600	<u>2.000</u> 1.180	925
KHTF 4/2 ZS KHTF 4/2 MZS	<u>4.000</u> 600	<u>2.000</u> 1.180	925

Optional available with hand pump or foot pump (FP) for load stroke and fast stroke.