

KH MZS



KH M 800



**Gartenfeldstrasse 17
54427 Kell am See
Telefon 06589/91780
Telefax 06589/917820
info@kirsten-hebezeuge.de
www.kirsten-hebezeuge.de
www.grubenheber.de**

The pit lifts
are in accordance with the
EU regulation for machinery
2006/42/EG, as well as EN 1494

Pit lifts

Telescope lifts

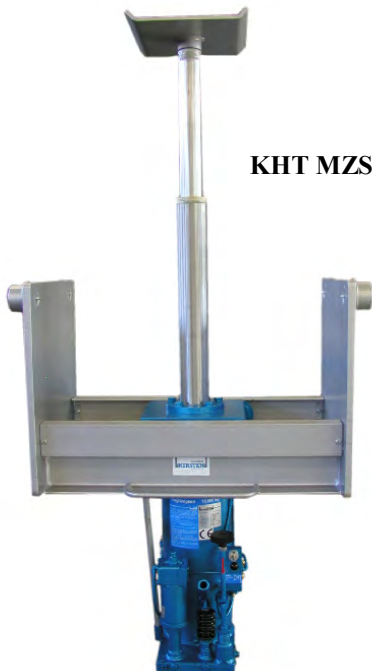
Jack beams

Portal lifts

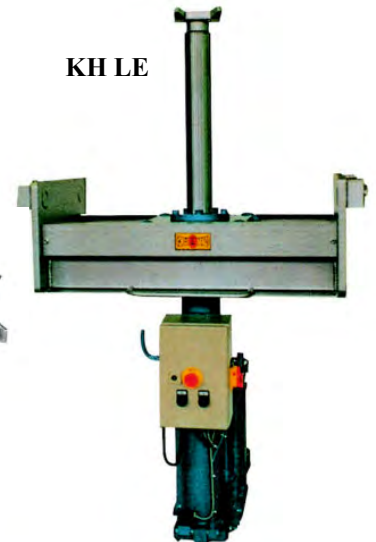


KPH MZS

KHT MZS



KH LE

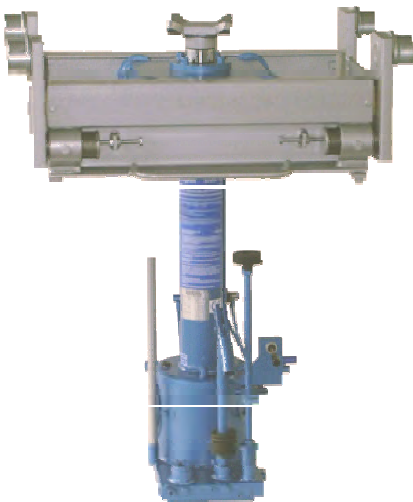


KSHM





KH



KH ZS



KH MZS

Key of types

indent letter	KH	KIRSTEN Hydraulic pit lift
	15	carrying capacity in tons
	L	long stroke 800 mm
	M	motor pump
	Z	quick action operation down
	S	quick action operation up
	M 800	same as type LMZS
telescope	T	telescoping pit lift
	15	carrying capacity in tons
	/2	2 telescope
electric	E	electric drive

Serial equipment of the pit lift

hard chromium piston rod as attrition- and corrosion prevention

concertina walls as security against contamination at load- and quick stroke hand pump

non-return valve for load security in every stroke position

pressure limitation valve for overload security

guide bush made from resistance material

set down steel carrying plate as load reception
gear plate GP at type KHT

lengthen hand wheel of the lowering valve with spring back position at 0 position

lengthen hand pump at long stroke 800 mm

undercarriage:

up to 4.000 kg at KHT, and

up to 6.000 kg at KH with needle bearings in the running rolls

up to 15.000 kg with grease nipple for running rolls

to 11.000 kg adjustable to 100 mm

two-coloured paint finishes with hammer-hit effect-lacquer
dark blue for the lift
silver grey for the undercarriage

detailed operation instructions with spare part list and control book

Advisable accessories

cylinder inside chromium as attrition- and corrosion prevention

telescope inside chromium at telescope pit lifts

needle bearings in lift rollers

grease nipple at the lift rollers

grease nipple at the undercarriage rollers up to 11.000 kg

mounted maintenance unit (pressure regulate; filter; water separator; manometer) at lifts with pneumatic drive



KH M 800

At drive different of the pit lifts about following feature:

Type KH und KHT

Hand pump for load- and fine stroke. Additional up to carrying capacity from 6.000 kg, up to 4.000 kg at telescopic lift, a quick-stroke hand pump is mounted. Lowering because by open of the lower valve by hand wheel. Pull in of the unloaded piston rod because by dead weight.

Type KH ZS und KHT ZS

Pneumatic quick stroke up to load application point, in addition these lifts are fitted with pneumatic positive return of the unloaded piston rod. At telescoping pit lifts KHT 4/2 ZS the first level return. At telescoping pit lifts up to 11.000 kg carrying capacity, the telescoping level one and two return. The load is elevated by means of a hand pump. Lowering is return to 0 position accomplished using a hand-wheel with automatic return.



KH T MZS

Type KH M 800

New narrow construction without hand-pump. Pneumatic quickly-lifting up to the load-point. The load up to the maximum load capacity becomes from a pneumatically driven motor-pump (air-motor) lifted. Separate push button as activity for quickly-lifting and load-lifting. Lowering takes place through opening of the lower valve by means of hand-wheel. Coming in of the unencumbered piston-pole takes place through the obligatorily pneumatic repatriation.

Type KH MZS und KHT MZS

These units testify to the same design and performance as the types KH ZS or KH MS. These pits had all preference for a quick lifting, without physical exertion. The pneumatic quick lift, as well as the pneumatic positive return amount to quick lifting or lowering without load. The mounted motor pump lifts the load to the maximum capacity of the pit lift. The control accomplished through a hand lever valve with safety catch.



KH LE

Type KH LE

Electric drive consists of under oil motor, hydraulic pump and control slide. The controls operate over push button up/down at electro control box. Lowering the piston rod about hydraulic. In existence they are a pressure limitation valve and a motor security switch because of overload protection. Security of elevated load through a build in magnet set valve in the cylinder ground. The connection cable about 10 m lengths with 16A CEE plug is specification component.

Connection data: 2,2 kW 400V 50 Hz 3P N+PE 6 t lift.
 Connection data: 3,0 kW 400V 50 Hz 3P N+PE 11-22 t lift.
 Connection data: 4,0 kW 400V 50 Hz 3P N+PE 30 t lift.

The advantages of electro hydraulic pit lift are they up to **7 times** higher stroke speed with load, as compressed air drive pit lifts.

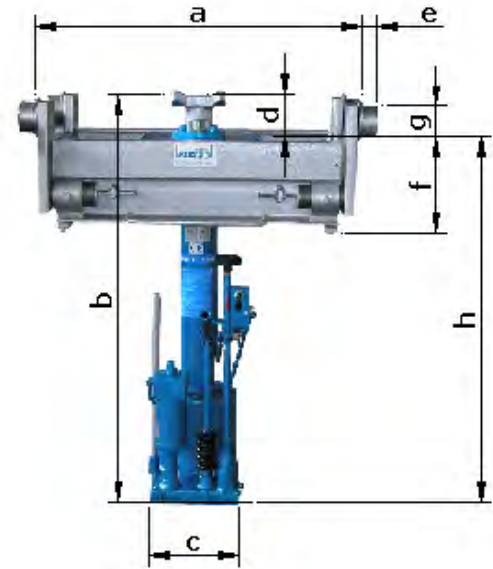
Technical data KH

Subject to extra charge

Pit width **a** more than 1000 mm
change measure **d** or **e**

Measure and weights not binding
Technical change reserved

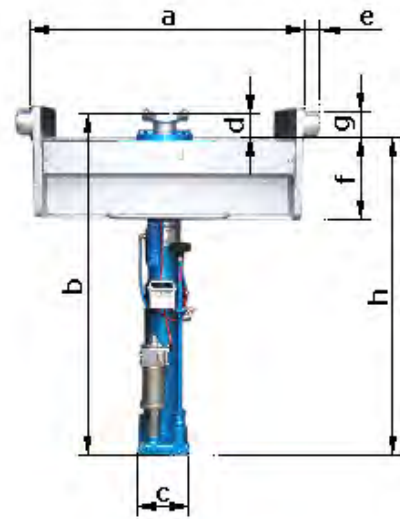
Measure in mm



Typ	Carrying capacity kg	Stroke mm	Weight kg	a	b	c	d	e	f	g	h
KH 2 KH 2 M	2 000	600	110	800-900	810	160	20	45	240	45	790
KH 4 KH 4 M	4 000	600	120	800-900	810	160	30	45	240	60	780
KH 6 KH 6 ZS KH 6 MZS	6 000	600	170	800-890	870	240	70	45	260	60	800
KH 6 L KH 6 LZS KH 6 LMZS KH 6 LE	6 000	800	190	800-890	1 070	240	70	45	260	60	1000
KH 11 KH 11 ZS KH 11 MZS	11 000	600	190	800-890	870	240	90	40	260	75	780
KH 11 L KH 11 LZS KH 11 LMZS KH 11 LE	11 000	800	210	800-890	1 070	240	90	40	260	75	980
KH 15 KH 15 ZS KH 15 MZS	15 000	600	230	nach Grube	870	240	80	45	240	75	790
KH 15 L KH 15 LZS KH 15 LMZS KH 15 LE	15 000	800	250	nach Grube	1 070	240	80	45	240	75	990
KH 18 KH 18 ZS KH 18 MZS	18 000	600	230	nach Grube	870	240	80	45	240	75	790
KH 18 L KH 18 LZS KH 18 LMZS KH 18 LE	18 000	800	250	nach Grube	1 070	240	80	45	240	75	990
KH 22 KH 22 ZS KH 22 MZS	22 000	600	270	nach Grube	870	280	90	45	260	85	780
KH 22 L KH 22 LZS KH 22 LMZS KH 22 LE	22 000	800	290	nach Grube	1 070	280	90	45	260	85	980
KH 30 ZS KH 30 MZS	30 000	600	310	nach Grube	920	280	100	60	290	100	820
KH 30 LZS KH 30 LMZS KH 30 LE	30 000	800	330	nach Grube	1 120	280	100	60	290	100	1 020

Technical data KH 11- 18 M 800

new narrow construction, long-lifting 800 mm
with air-motor, without hand-pump,
with separated push button for quickly-lifting and load-lifting
pneumatic compulsory-repatriation of the piston-pole



Subject to extra charge

Pit width **a** more than 1000 mm
change measure **d** or **e**

Measure and weights not binding
Technical change reserved

Measure in mm

Typ	Carrying capacity kg	Stroke mm	Wight kg	a	b	c	d	e	f	g	h
KH 11 M 800	11 000	800	215	800-900	1 070	160	60	40	260	75	1010
KH 15 M 800	15 000	800	220	nach Grube	1 070	160	60	45	240	75	1010
KH 18 M 800	18 000	800	225	nach Grube	1 070	160	80	45	240	75	990

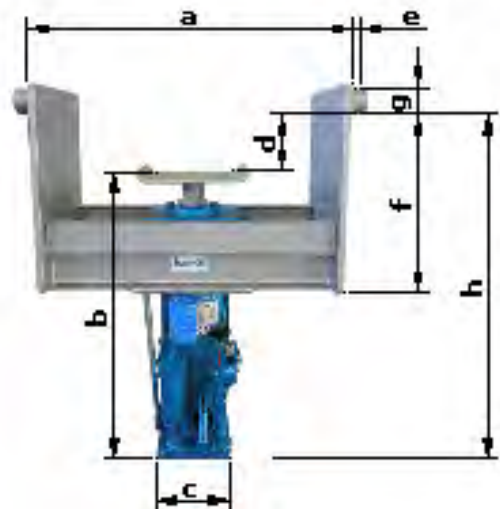
Technical data KHT

Subject to extra charge

Pit width **a** more than 1000 mm
change measure **d** or **e**

Measure and weights not binding
Technical change reserved

Measure in mm



Type	Telescope 1 Capacity kg Stroke mm	Telescope 2 Capacity kg total stroke mm	Telescope 3 Capacity kg total stroke mm	Weight kg	a	b	c	d	e	f	g	h
KHT 4/2 KHT 4/2 ZS KHT 4/2 MZS	4 000 600	2 000 1 180	-	190	800-900	840	240	190	45	460	60	1 030
KHT 11/3 ZS KHT 11/3 MZS	11 000 600	6 200 1 200	2 800 1 770	310	800-890	880	240	180	40	510	75	1 060
KHT 15/2 KHT 15/2 ZS KHT 15/2 MZS	15 000 600	8 400 1 200	-	290	according to pit	890	240	180	45	520	75	1 070
KHT 22/2 ZS KHT 22/2 MZS	22 000 600	11 000 1 190	-	370	according to pit	870	280	160	45	500	85	1 030



GHL 3 Z

Type GHL Z

Pneumatic pit lifts moved through pressed air with be effective on the stroke piston. The operating for lifting and lowering because by hand throttle valve with safety-catch in 0 position.

The piston rod by force at lowering with pressed air in 0 position. Through the forced return there is possible a sensitive and jolt free lifting/lowering. There is the optimal pit lift for operating and working especially for the quickly customer service as well as car examine departments.

Type	Carrying capacity kg	Stroke mm	Construction height mm	Weight kg	pneum. Pressure bar
GHL 1,5 Z	1 500	410	600	80	10
GHL 3 Z	3 000	435	640	120	10



Type KSH and KSHM

KSH

Load stroke with Hand pump

KSHM

Load stroke with pneumatic motor pump
pneum. operation pressure 8-12 bar

Hydraulic jack beam with mechanic-security lock pin of the stroke traverses. Springy bearing running rolls to moved in longitudinal direction. By load put the side rack on the running rail. Lower is only possible through simultaneous open holding of the security lock pin and put lowering valve.

Typ	Capacity kg	Stroke mm	Adjust. area Rack mm	adjust. area Telescopic slide mm	Height lowering mm
KSH 2 KSH 2 M	2 000	250	820 - 1160	780 - 1600	180
KSH 2,6 KSH 2,6 M	2 600	250	820 - 1160	780 - 1500	180
KSH 4 M	4 000	250	820 - 1200	720 - 1400	230

Undercarriage was made to in existence vehicle lift. Please enclose measure sketch at ordering.

Portal lift Type KPH

This portal lift in use as pit lift is a meaningful combination from stroke cylinder, axle traverse and supporting bridge. The passage in the pit under the lift is always free. The load takes up at two points through the axle traverse. That in EN 1494 required additional safety device of the lifted load is accomplished using through two bolt, how at supporting bridge.

The drive for KPH MZS by pressure air and air motor, and for KPH E with electrical motor and hydraulic pump.

The best and ergonomic favourable solution for a free passage in the pit.



Technical data	KPH 15 MZS	KPH 18 MZS	KPH 15 E	KPH 18 E
Capacity	15.000 kg	18.000 kg	15.000 kg	18.000 kg
Stroke	600 mm	600 mm	600 mm	600 mm
Stroke speed without load	approx. 1,00 cm/s	approx. 1,00 cm/s	1,50 cm/s	1,50 cm/s
Stroke speed with load	0,08-0,30 cm/s	0,08-0,30 cm/s	1,50 cm/s	1,50 cm/s
Lowering speed with positive return	0,62 cm/s	0,62 cm/s	2,00 cm/s	2,00 cm/s
Hydraulic pressure	220 bar	260 bar	220 bar	260 bar
Pneumatic pressure	10 bar	10 bar	-	-
Electrical connection three phase current	-	-	3 kW 400 V	3 kW 400 V
Weight	440 kg	450 kg	450 kg	460 kg