

# Lifting jack

Typ: KAL 275, order no. 12373



### Structure and use guidance

The make lifting jack serves for lifting or lowering components and loads with assembly works on building sites. Only vertical loads (in the plumb line) must be carried.

With the lifting jack e.g. steel girders or wood purlins can be millimeter-exactly aligned. The weight is turned up or down by means of crank within selflocking spindle transmission. The lifting jack is equipped with swivel rollers, so that it can be easily moved to the load bearing position when not carrying a load. When loaded, it must (only) be moved in longitudinal direction, which enables precise alignment of components.

#### **General note**

Only components in perfect status and original equipment may be used. This must be checked before use. The lifting jack must not be used until it has been repaired appropriately.

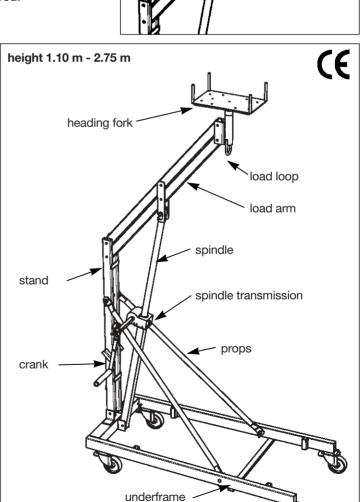
The lifting jack is to be used only according to the intended purpose. Any other improper use is prohibited.

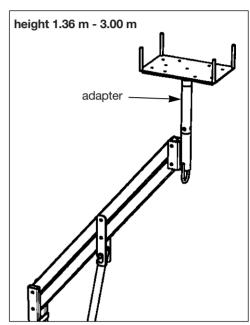
The rules for the prevention of accidents are to be observed.

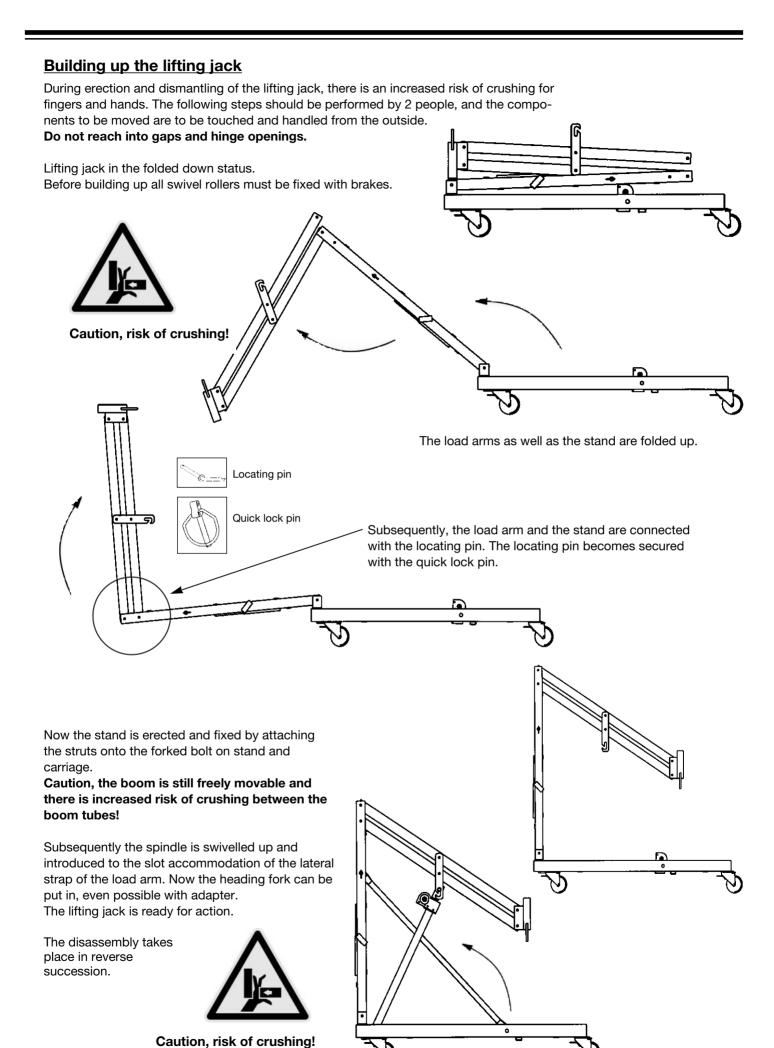
### Technical data

lifting height	1.10 - 2.75 m
with adapter	1.36 - 3.00 m
light mass heading fork	36 x 21 x 11.5 cm
dimensions folded	1.59 x 0.81 x 0.60 m
load-bearing capacity	600 kg
(In case of paired operation	n 2 x 450 kg = 900 kg)
weight	86 kg
crank, adjustable	Order no. 12361
adapter	Order no. 12374







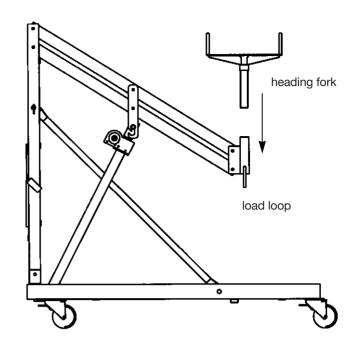


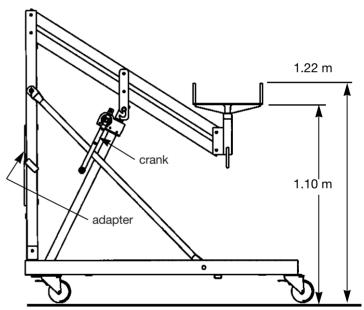
#### **Use and operation**

#### Important:

- The lifting jack may be set up only on horizontal-even, capable of foundation.
- The weight, e.g. a steel girder or a wood purlin, will be put on the heading fork of the lifting jack or hooked into the loop of the boom. The borings in the heading fork provide the possibility of fixing the hung up load.
- The brakes of the swivel rollers must be fixed beforehand.
  The swivel rollers should point to the outside once fixed, to realise maximum contact width.
- If loads placed or suspended are to be moved, this must be done in the deepest possible position of the boom.
   When moving with lifted load there is a risk of turning over!
- Moving with lifted load is only permissible in lifting jack longitudinal direction! Risk of turning over!
- It is recommended to sweep off the surface on which the lifting jack is moved under load. Even small stones hinder the swivel rollers of the loaded device.
- Another recommendation is to additionally secure the lifted load with scaffold jacks placed underneath during movement.

The crank for infinite lifting and lowering of the load can be attached on both sides of the spindle gear. Its length is adjustable, so that a large radius (lever arm) for lifting, or a small radius (faster) for unloaded movement can be set.

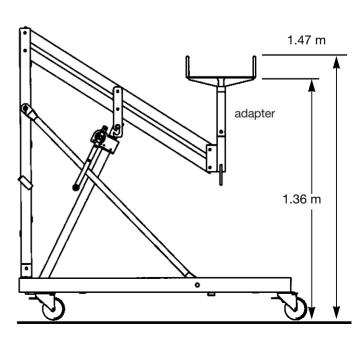






Caution, risk of crushing!

With the plug-on of the adapter, which is otherwise between the two pipes of the stand, it is possible to raise up the work height of the lifting jack by 0.25 m to 3.00 m.



#### Lifting a load off the ground

A fundamental requirement for intended lifting with the lifting jack is

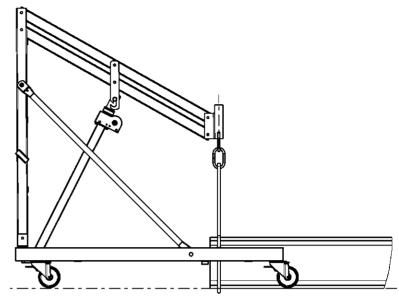
the lifting jack carriage being below the load.

If the load to be lifted is on the ground (in the picture a carrier HE-B 300 for example), this must be initially lifted by approx. 30 cm and placed on a suitable base (e.g. squared timbers). This is the only way to ensure that the carriage of the lifting jack can move under the carrier for the actual lift.

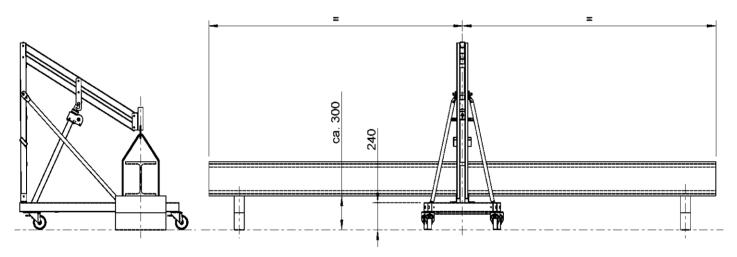
#### Using one lifting jack

When working with one single lifting jack it is necessary to take up the carrier (or similar) to be lifted in the centre of gravity.

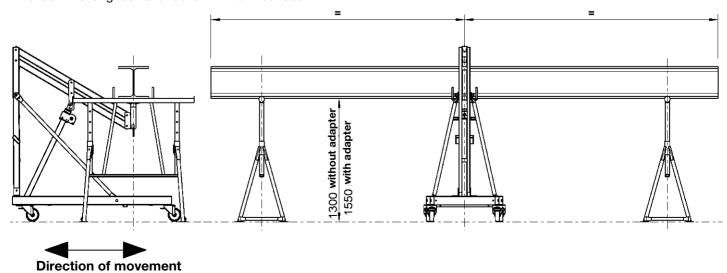
In this step the carrier is hooked into the load loop with respectively load-bearing sling gear to lift it to the respective height for take up by the



heading fork. This height depends on whether the heading fork is directly inserted into the mounting of the lifting jack or whether the adapter (order no. 12374) is used for a total lifting height of 3.0 m (see below). The lifted carrier is to be placed down on an appropriate load-bearing support (e.g. scaffold jacks).



Once the heading fork and adapter, if required, are installed, the carrier (load) is to be lifted again in the centre of gravity. Borings in the plate of the heading fork enable additional mounting of the carrier. It is recommended during the lift to always track the support to provide an additional safety device against tilting and falling. The lifting jack must only be moved in its longitudinal direction with a lifted load!

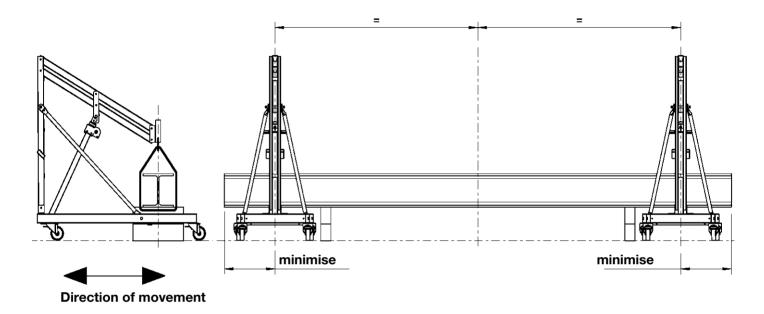


#### **Using two lifting jacks**

## When using two lifting jacks in pairs, the maximum load bearing capacity increases to $2 \times 450 \text{ kg} = 900 \text{ kg}$

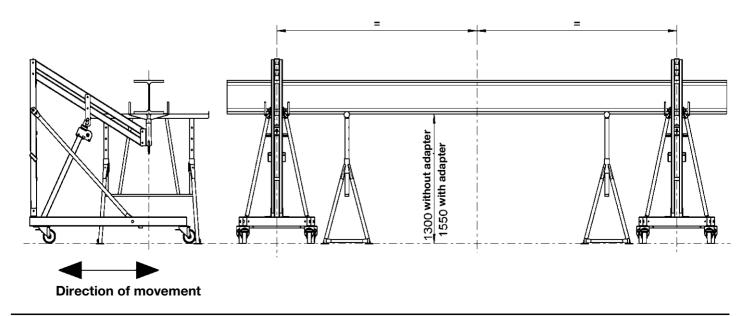
If two lifting jacks are being used, these are to be positioned symmetrical to the centre of gravity, as far towards the end of the carrier (load) as possible. Each lifting or lowering movement must be performed synchronously and uniformly, tilting of the carrier is to be avoided.

In this step the carrier is hooked into the load loops with respectively load-bearing sling gear to lift them to the respective height for take up by the heading fork. This height depends on whether the heading fork is directly inserted into the mounting of the lifting jack or whether the adapter (order no. 12374) is used for a total lifting height of 3.0 m (see below). The lifted carrier is to be placed down on an appropriate load-bearing support (e.g. scaffold jacks).



Once the heading fork and adapter, if required, are installed, the carrier (load) is to be lifted again **SYMMETRICAL** to the centre of gravity. Borings in the plates of the heading forks enable additional mounting of the carrier. It is recommended during the lift to always track the support to provide an additional safety device against tilting and falling. The lifting jacks must only be moved in their longitudinal direction with a lifted load!

Putting down the weight takes place in reverse succession.



#### Before each employment is to be considered

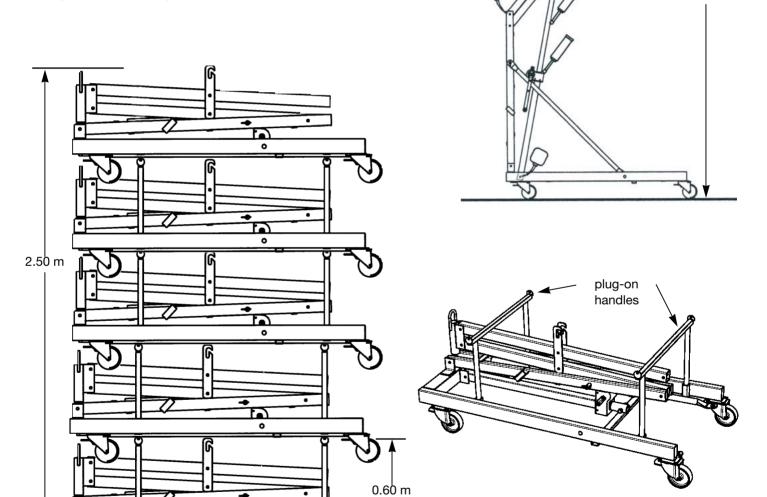
- Visual check of the lifting jack on complete assembly and functional test of the spindle transmission.
- Defective or worn parts must be changed before using.
- Examine the spindle, the spindle transmission as well as the bearings for sufficient lubrication:
  - lubricants of the spindle as well as the spindle transmission with machine fat
  - oils of all bearings



3.00 m

#### Storing the lifting jacks

In the folded up status several lifting jacks could be stacked with the help of the plug-on handles (Order no. 12351) one above the other. Altogether max. 5 lifting jacks may be stacked one above the other.



Technical subject to change 04.01.2018

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