



Operating Instructions

- Teleskoplader Type KT/KTH/KT-K/KTH-K/KT-Z/KTH-Z -



Original Operating Instructions

Teleskoplader

Type KT/KTH/KT-K/KTH-K/KT-Z/KTH-Z



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Operating Instructions

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Internal use is permitted for the operator of the machine in connection with the operation of the machine.

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History

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1.0	28/01/2020	Customer version	BKL, cesitec GmbH, Bochumer Str. 217, 45886 Gelsenkirchen, Tel.: 0209 15519 104
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1 Basic information

1.1 Information on the operating instructions

- It is necessary to read through the operating instructions carefully before starting any work and store them in the immediate vicinity of the system, accessible to the authorised personnel at all times. The operator of the load handling device determines who is authorised as a user.
- The operating instructions provide information about:
 - description of the dangers and instructions for safe handling of the LAM,
 - the intended use of the LAM,
 - the structure and description,
 - the mode of operation of the LAM,
 - measures to establish operational readiness and operational safety,
 - operation of the LAM,
 - maintenance and testing of the LAM.
- They are a component of the machine and therefore must be supplied with the machine.
- For better explanation, illustrations may be shown not to scale and differ from the actual model.

1.2 Abbreviations, symbols and technical terms



Note

The Note symbol is used to identify information on operation of the LAM and provides useful tips and recommendations, as well as information for efficient, economical, fault-free operation.

The following abbreviations are used in these operating instructions:

Abbreviation	Meaning
BAUER	BAUER Südlohn GmbH
LAM	Load handling device, Teleskoplader
PPE	Personal protective equipment

The following layout elements are used in these operating instructions:

Symbol	Meaning
(1)	numbered action steps
⇒	Result after performing action steps
\$	Enumeration
-	Enumeration, subgroup
<i>Italic text</i>	Indicates preconditions that must be fulfilled before an action description
Chapter <i>number</i> + <i>title</i>	Refers to a section in this manual or further applicable documents

Warnings are shown as follows in these operating instructions:

Each signal word is highlighted in a background colour (red, orange or yellow) according to the degree of risk of the hazardous situation.

Warning
symbol
opt. PPE
symbol(s)

SIGNAL WORD!

Nature, source and cause of a danger

Consequences of non-compliance

➤ Measures to prevent the danger; prohibitions

1.3 Conformity / standards and guidelines

This LAM has been designed and built according to state-of-the-art technology and recognised safety regulations. Conformity of the LAM with EU guidelines and standards is confirmed through the CE declaration.

1.4 Warranty and liability



Note

Conformity in accordance with the Machinery Directive 2006/42/EC and the CE marking in accordance with the Machinery Directive 2006/42/EC become invalid if unauthorised alterations of the LAM or its assemblies are made.

The manufacturer assumes no liability for damage due to failure to follow these operating instructions.

2 Safety at the machine



Note

This machine has been designed and built according to state-of-the-art technology and recognised safety regulations. Nevertheless, dangers to the life and limb of the user or third parties or negative effects on the LAM or other property can occur during use.

2.1 Definitions

2.1.1 Warning

A warning is used to warn of a situation that can lead to injury or death.

2.1.2 Personal protective equipment (PPE)

If personal protective equipment (PPE) is required to be worn, this is indicated through additional symbols in the warnings of these operating instructions and the product safety labels/safety signs on the Teleskoplader.

2.2 Warnings, symbols and markings

2.2.1 Understand warnings



DANGER!

... refers to a dangerous situation with a high degree of risk that will lead to death or serious injury if not prevented.



WARNING!

... refers to a dangerous situation with a medium degree of risk that could lead to death or serious injury if not prevented.



CAUTION!

... refers to a dangerous situation with a low degree of risk that could lead to slight or moderate injury if not prevented.



ATTENTION

... refers to a possibly dangerous situation that can lead to property damage if not prevented.

2.2.2 Understand warning symbols

The following symbols can be used in the operating instructions according to the type of danger:



General warning of danger!



Warning: Suspended load!



Warning: Hand injuries!

2.2.3 Personal protective equipment symbols

The following symbols can be used in the operating instructions according to the area of use:

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Wear helmet!



Use hand protection!



Wear safety shoes!



Read the operating manual!

2.3 Working safely with the machine

The following section “Basic warnings and safety notes” deals with all warnings and safety notes that are valid for all stages of the life cycle of the Teleskoplader. Warnings that are associated directly with an activity are an exception to this.

2.3.1 Basic warnings and safety notes

Information for the operator

This operating manual must be stored within easy reach and readily available at the operating site of the Teleskoplader.

Local accident prevention regulations must be observed during all work on the LAM. Furthermore, observe the DGUV provisions, in particular DGUV regulation 100-500, chapter 2.8 (previously BGR 500), and DGUV information (per the latest engineering standards), or the nationally applicable regulations.

Personnel working with the LAM must be older than 18 years of age and familiar with the functionality and application of the LAM, as well as the dangers arising from it.

The respective personnel must have received instruction on the task, and must be familiar with the operating manual, as well as any further applicable internal instructions. They must possess the following knowledge and skills in particular:

- Ability to assess the weight of the load,
- Ability to assess the location of the centre of gravity of loads,
- Knowledge of the lifting gear available,
- Load bearing capacity of the lifting gear, depending on the number of lines, type of attachment and angle of inclination,

- Selection of the correct lifting gear,
- Protection against unintentional unhooking,
- Conduct during attachment, lifting and transportation,
- Signals and gestures,
- Avoiding damage to lifting gear,
- Conduct when lowering and releasing lifting gear,
- Storage of lifting gear.

The operator is responsible for sufficient lighting in the working and transport areas!

For additional purchased components, the manufacturer's indications must be observed!



Note

The LAM is designed for max. 16000 load changes (DIN EN 13155-E, chap. 1). Upon reaching the maximum number of load changes, the LAM must be put out of operation and scrapped, or - if possible - fully overhauled.

Information for the user

Before use, check the LAM for damage, e.g. for deformations, cracks, breakage, incomplete labelling.

The specified load bearing capacity must not be exceeded, see chapter 3.4 *Technical data*.

Select the load bearing capacity and attachment type of all lifting accessories and accessory parts in accordance with the technical data for the LAM.

Lifting and load handling devices must be stored such that they are protected from weathering and aggressive substances, if safety may be impaired by these influences.

LAM and lifting gear with mechanical damage or deformations must not be further used. For permissible cross section reductions refer to DGUV regulation 100-500, chapter 2.8, or the national regulations.

LAM is only intended for vertical lifting, pulling the load across the floor (diagonally) is prohibited.

When moving the LAM, prevent oscillations or impacts with objects or building parts.

Adjust the movement of loads to the weather conditions!

Lifting and transporting loads with particular hazards

Refer also in this regard to DGUV rule 100-500, chapter 2.8, no. 3.10 (D), or the national regulations.

Hazardous substances are substances and items that may pose danger to persons, animals or the environment in case of accidents or with incorrect handling during transport. These may be:

- Explosive substances and items; items loaded with explosive substances; igniting devices, fireworks and other goods,
- Compressed, liquefied and pressurised gases,

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- Flammable liquids,
- Flammable solids; self-igniting substances; substances that produce flammable gases in contact with water,
- Igniting (oxidising) substances; organic peroxide,
- Toxic, repellent and contagious substances,
- Radioactive substances,
- Caustic substances,
- Other hazardous substances and items.

Note the following in this regard:

- ⇒ Use load-bearing equipment that will not cause damage to packaging when lifting, transporting or setting down, e.g. when transporting gas bottles, use suitable loading drawers or special transport frames.
- ⇒ In case of hazardous goods with damaged packaging, only pick these up with load handling devices that will prevent any leakage or escape.
- ⇒ Do not pick up hazardous goods with load handling devices that only hold the load through magnetic, friction or suction forces.



DANGER!

Falling or uncontrolled parts during lifting, transportation and lowering.

Risk of fatal injury and various injury hazards!

- Persons are forbidden from dwelling under the suspended load or in the hazard area of the load!
- Transporting loads over the top of persons is prohibited.
- Observe the information about the intended attachment points!
- Make sure the LAM is securely attached! Observe the centre of mass!
- Only use approved and undamaged lifting equipment with sufficient load bearing capacity!
- Adjust the movement of loads to the weather conditions!



WARNING!

Unauthorised alterations of the Teleskoplader can endanger safe operation!

Risk of death and various injury hazards!

- Do not perform unauthorised design changes; all changes must be discussed with and approved by BAUER.
- Do not modify the protective/safety equipment.

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⚠ WARNING!

A failure to wear personal protective equipment.

Injuries due to crushing and bumping in case of carelessness and unexpected situations!

- Wear PPE (protective gloves, safety footwear and hard hat).

2.3.2 Recognise safety-related protective equipment

On the basis of the risk assessment of the LAM, a safety chain is integrated in order to ensure safe work with the LAM.



⚠ DANGER!

If the Teleskoplader sits unsecured on the forklift forks, this will result in the Teleskoplader / load toppling!

Various risks of injury due to a toppling Teleskoplader / load.

- When transporting / using the Teleskoplader, always drive the forklift forks into the fork pockets and secure with the fastening chain to prevent the LAM from slipping off the forks.



Fig. 2-1: Safety chain on the Teleskoplader

2.3.3 Machine marking



Note

The year of manufacture and the manufacturer's number can be found in the type plate of the Teleskoplader. This data is not noted in the operating instructions.

The declaration of conformity and the operating manual are restricted to the Teleskoplader supplied. A crane or lifting system is not part of this declaration of conformity.



			
Typ	<input type="text"/>	ESP	<input type="text"/>
Herstell-Nr.	<input type="text"/>	LSP	<input type="text"/>
Baujahr	<input type="text"/>	Vorbaumaß	<input type="text"/>
Inhalt	<input type="text"/>	stapelbar	<input type="text"/>
Eigengewicht	<input type="text"/>	hydr. Druck min.	<input type="text"/>
Tragfähigkeit	<input type="text"/>	max.	<input type="text"/>
Achtung: Tragfähigkeit der Kombination von Flurförderzeug und Anbaugerät einhalten!			

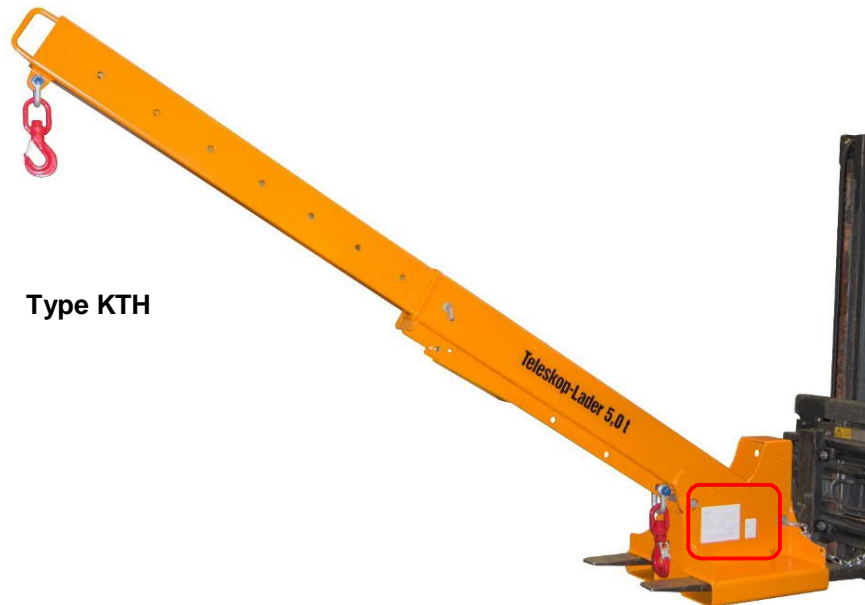
Fig. 2-2: Teleskoplader type plate

2.3.4 Further signage on the machine

The following signage is fastened to the Teleskoplader. This contains information regarding the maximum load of the individual load attachment points.

Type KT





Type KTH

Fig. 2-3: Position of load table/product safety label

3 Description of the Teleskoplader

3.1 Intended use

The Teleskoplader serves exclusively as crane-like, interchangeable equipment for extending the reach of a forklift truck. This takes place with the aid of lifting gear suitable for variable attachment, which lifts and transports loads with a forklift truck as a lifting and transport vehicle.

The Teleskoplader is to be used exclusively within the performance limits listed in section 3.4 *Technical data*.

3.2 Improper use

Improper use includes in particular:

- Any use other than the use of the machine described in chapter 3.1 *Intended use* and further sections of these operating instructions without written permission of the manufacturer.
- Transporting persons.
- Leaving the load in the raised condition.
- Use, installation, operation, servicing or repair other than as described.
- Work performed by unqualified personnel.
- Use of unapproved, inappropriate accessories.
- Use of parts other than the original spare parts or accessories.
- Failure to follow safety and operating instructions, occupational safety and accident prevention regulations or applicable statutory regulations.

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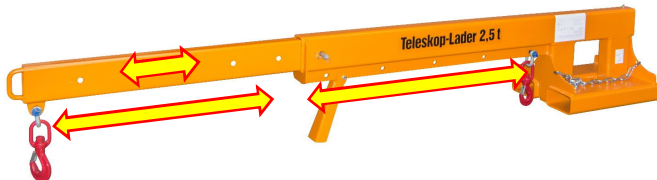

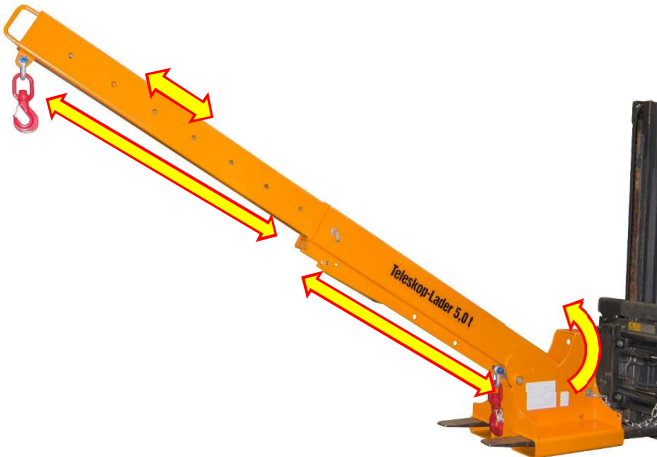


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- Failure to eliminate faults in a timely fashion that could negatively impact safety.
- Lifting other loads or loads with different properties.
- Lifting the load in a manner or way that differs from the specifications.
- Using the LAM on construction sites.
- Operating in an environment with a special atmosphere (high humidity, explosive, briny, corrosive, alkaline, etc.).

3.3 Structure Teleskoplader type KT/KTH/KT-K/KTH-K/KT-Z/KTH-Z

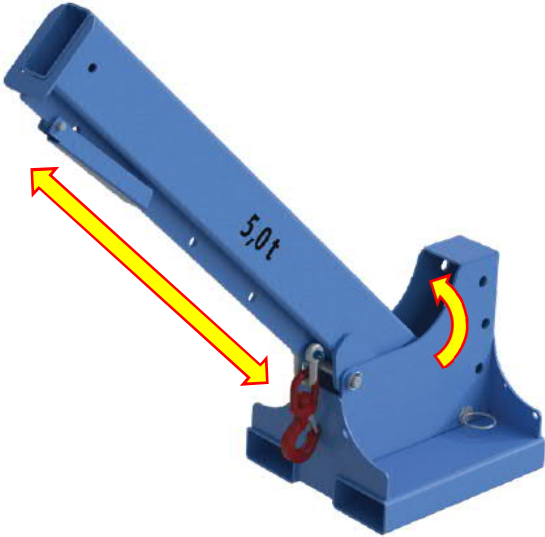
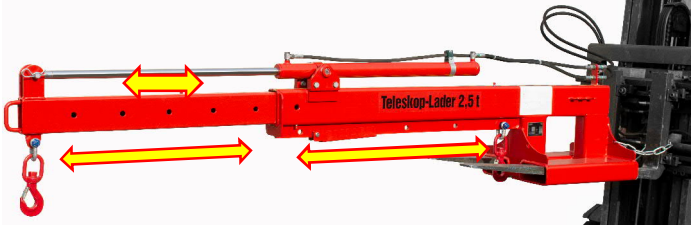
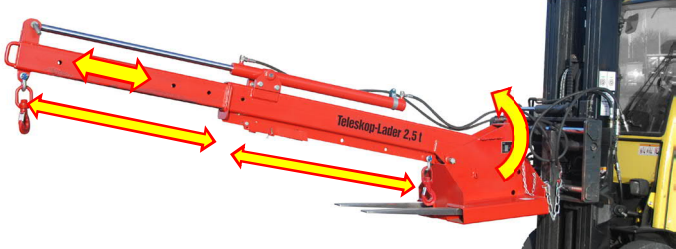
3.3.1 Standard types of Teleskoplader

Teleskoplader	Type	Description
	KT	<ul style="list-style-type: none"> • Jib without height adjustment • Jib telescoping takes place manually
	KT-K	<ul style="list-style-type: none"> • Jib without height adjustment • Jib length is fixed
	KTH	<ul style="list-style-type: none"> • Jib with height adjustment • Jib telescoping takes place manually

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Teleskoplader	Type	Description
	KTH-K	<ul style="list-style-type: none"> • Jib with height adjustment • Jib length is fixed
	KT-Z	<ul style="list-style-type: none"> • Jib without height adjustment • Jib telescopes hydraulically (positions 1 to 11), telescoping to positions 12 to 14 takes place manually
	KTH-Z	<ul style="list-style-type: none"> • Jib with height adjustment • Jib telescopes hydraulically (positions 1 to 11), telescoping to positions 12 to 14 takes place manually

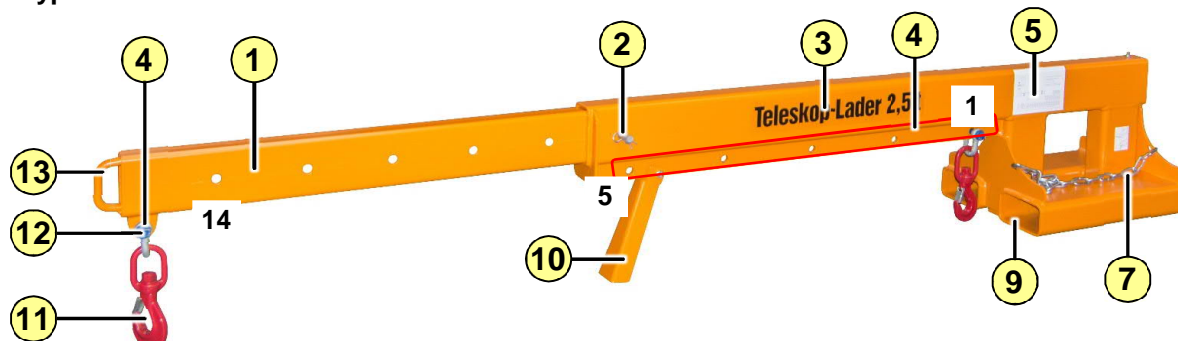
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3.3.2 Teleskoplader Types KT, KT-K and KT-Z

Type KT



Type KT-K

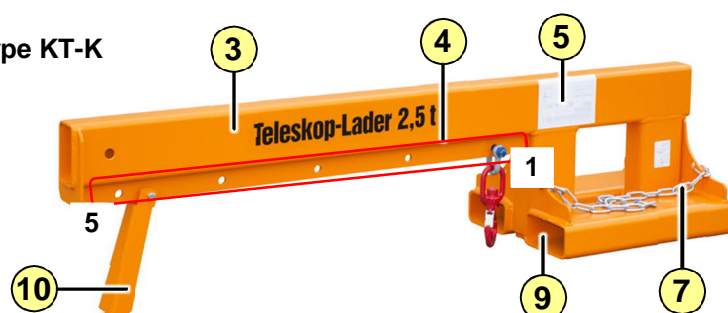


Fig. 3-1: Assemblies Teleskoplader KT / KT-K

Item	Description
1	Telescopic tube (not KT-K) with holes for manually adjusting the length, positions 6 to 14
2	Bolt 1 and cotter pin, locking the position of the telescopic tube (not KT-K)
3	Hollow profile
4	Holes as retainer position for shackle, positions 1 to 5
5	Load table
6	Not used
7	Fastening chain
8	Not used
9	Fork pocket
10	Support foot
11	Swivel hook
12	Shackle
13	Telescopic tube handle (not KT-K)

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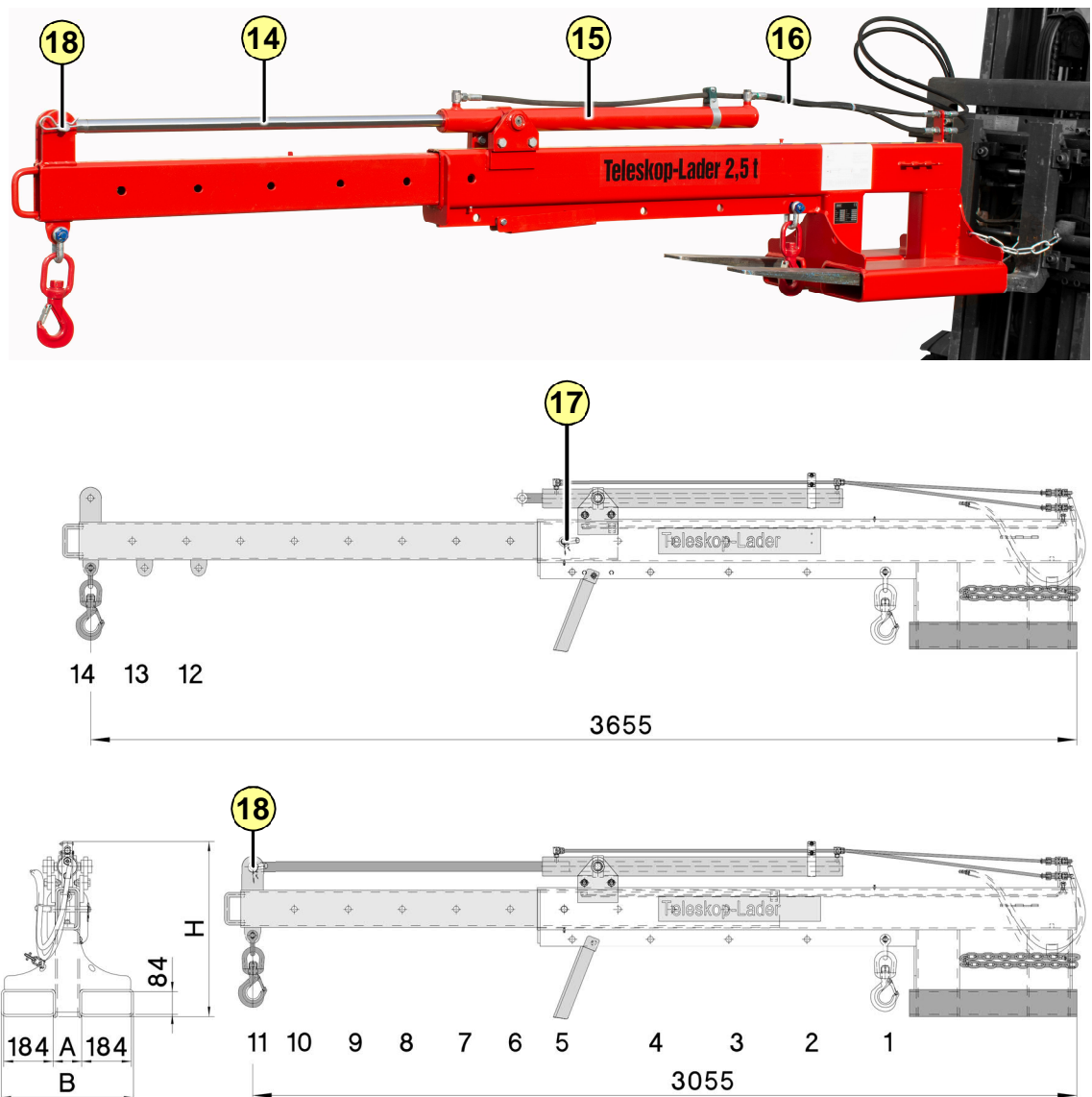


Fig. 3-2: Additional assemblies Teleskoplader KT-Z

Item	Description
14	Hydraulic cylinder piston rod
15	Hydraulic cylinder (drive the telescopic tube in and out when using positions 1 to 11)
16	Hydraulic hoses
17	Bolt 3 and cotter pin (secure the telescopic tube when using positions 12 to 14)
18	Bolt 3 and cotter pin (secure the piston rod on the telescopic tube)

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3.3.3 Teleskoplader Types KTH, KTH-K and KTH-Z

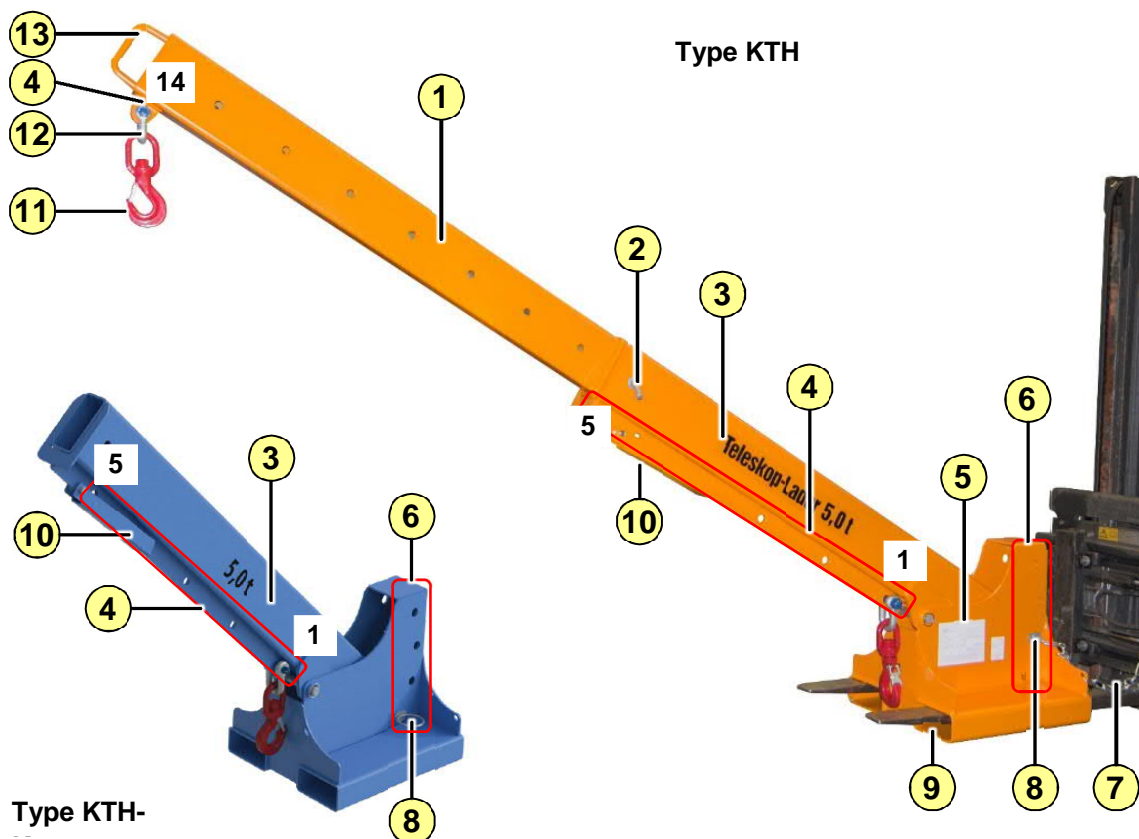


Fig. 3-3: Assemblies Teleskoplader KTH / KTH-K

Item	Description
1	Telescopic tube (not KTH-K) with holes for manually adjusting the length
2	Bolt 1 and cotter pin, locking the position of the telescopic tube (not KTH-K)
3	Hollow profile
4	Holes as retainer position for shackle, positions 1 to 5
5	Load table
6	Height adjustment holes
7	Fastening chain
8	Bolt 2 and linchpin, locking the height adjustment
9	Fork pocket
10	Support foot
11	Swivel hook
12	Shackle
13	Telescopic tube handle (not KTH-K)

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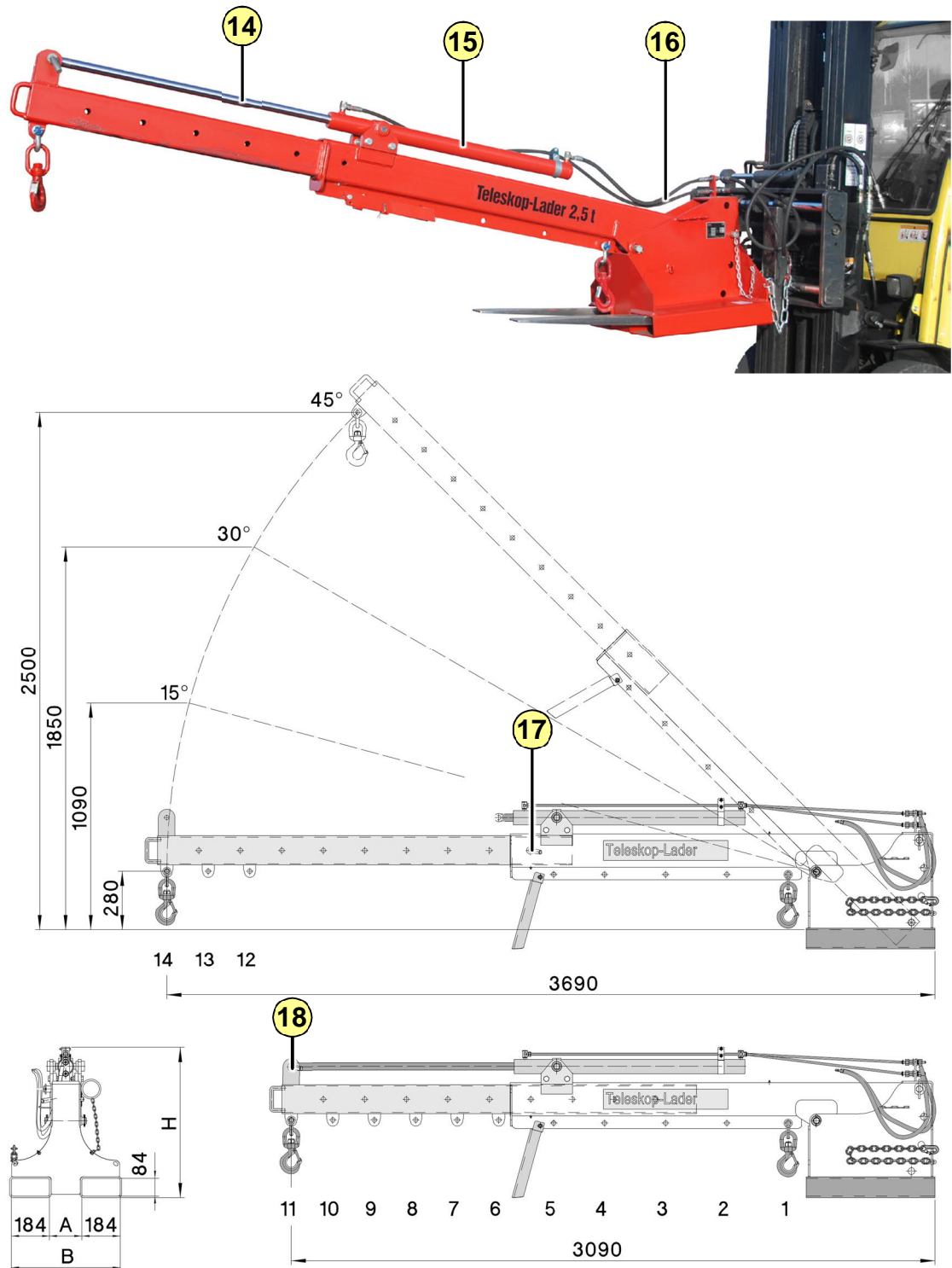


Fig. 3-4: Additional assemblies Teleskoplader KTH-Z

Item	Description
14	Hydraulic cylinder piston rod
15	Hydraulic cylinder (drive the telescopic tube in and out, positions 1 to 11)
16	Hydraulic hoses

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Item	Description
17	Hole or bolt 3 and cotter pin (secure the telescopic tube, positions 12 to 14)
18	Hole or bolt 3 and cotter pin (secure the piston rod on the telescopic tube)

3.4 Technical data and load tables



MATERIAL DAMAGE!

Exceeding the load-bearing capacity of the forklift truck

Damage to the forklift truck due to overload.

- Specify the load-bearing capacity of the forklift truck on the basis of the LAM load table!

3.4.1 Technical data KT / KT-K

Dimensions	Type	KT 2.5	KT 5.0	KT-K 2.5	KT-K 5.0
Length [mm]		2160	2160	2000	2000
Width [mm]		490	500	490	500
Height [mm]		480	520	480	520
Intermediate dimension fork pockets (dimension A)		106	116	106	116
Centre of gravity					
Retracted [mm]		775	790	679	702
Extended [mm]		1100	1150	/	/
Weight					
Tare weight, painted / galvanised [kg]		175 / 188	210 / 226	135 / 145	160 / 176
Load-bearing capacity [kg]		See load table			
Permissible max. number of load changes		16.0000			
Environmental conditions					
Permissible ambient temperature		-20°C to max. 40°C			

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3.4.2 Load table KT / KT-K

Position	Distance [mm]	Load [kg]			
		KT 2.5	KT 5.0	KT-K 2.5	KT-K 5.0
1	710	2500	5000	2500	5000
2	1000	2500	3550	2500	3550
3	1290	2500	2750	2500	2750
4	1590	1800	2250	1800	2250
5	1870	1400	1950	1400	1950
6	2055	1200	1700	/	/
7	2255	1050	1550	/	/
8	2455	950	1400	/	/
9	2655	850	1300	/	/
10	2855	770	1200	/	/
11	3055	700	1150	/	/
12	3255	650	1050	/	/
13	3455	600	1000	/	/
14	3655	560	950	/	/

3.4.3 Technical data KTH / KTH-K

Dimensions	Type	KTH 2.5	KTH 5.0	KTH-K 2.5	KTH-K 5.0
Length [mm]		2200	2200	2048	2048
Width [mm]		540	550	540	550
Height [mm]		560	600	560	600
Intermediate dimension fork pockets (dimension A)		156	166	156	166
Centre of gravity					
Retracted [mm]		720	750	627	662
Extended [mm]		985	1060	/	/
Weight					
Tare weight, painted / galvanised [kg]		203 / 218	235 / 253	160 / 172	184 / 198
Load-bearing capacity [kg]		See load table			
Permissible max. number of load changes		16.0000			
Environmental conditions					
Permissible ambient temperature		-20°C to max. 40°C			

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3.4.4 Load table KTH / KTH-K

Position	Distance [mm]	Load [kg]			
	Type	KTH 2.5	KTH 5.0	KTH-K 2.5	KTH-K 5.0
1	695	2500	5000	2500	5000
2	990	2500	3550	2500	3550
3	1285	2500	2750	2500	2750
4	1580	1800	2250	1800	2250
5	1825	1400	1950	1400	1950
6	2090	1200	1700	/	/
7	2290	1050	1550	/	/
8	2490	950	1400	/	/
9	2690	850	1300	/	/
10	2890	770	1200	/	/
11	3090	700	1150	/	/
12	3290	650	1050	/	/
13	3490	600	1000	/	/
14	3690	560	950	/	/

3.4.5 Technical data KT-Z / KTH-Z

Dimensions	Type	KT-Z 2.5	KT-Z 5.0	KTH-Z 2.5	KTH-Z 5.0
Length [mm]		2160	2160	2200	2200
Width [mm]		490	500	540	550
Height [mm]		650	690	724	764
Intermediate dimension fork pockets (dimension A)		106	116	156	166
Centre of gravity					
Retracted [mm]		920	920	850	865
Extended, hydraulic [mm]		1155	1155	1055	1070
Extended, complete [mm]		1250	1255	1130	1160
Weight					
Tare weight, painted / galvanised [kg]		215 / 232	254 / 276	246 / 265	289 / 308
Load-bearing capacity [kg]		See load table			
Permissible max. number of load changes		16.0000			
Environmental conditions					
Permissible ambient temperature		-20°C to max. 40°C			

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3.4.6 Load table KT-Z

Position	Distance [mm]	Load [kg]			
	Type	KT-Z 2.5	KT-Z 5.0		
1	710	2500	5000		
2	1000	2500	3550		
3	1290	2500	2750		
4	1590	1800	2250		
5	1870	1400	1950		
6	2055	1200	1700		
7	2255	1050	1550		
8	2455	950	1400		
9	2655	850	1300		
10	2855	770	1200		
11	3055	700	1150		
12	3255	650	1050		
13	3455	600	1000		
14	3655	560	950		

3.4.7 Load table KTH-Z

Position	Distance [mm]	Load [kg]			
	Type	KTH-Z 2.5	KTH-Z 5.0		
1	695	2500	5000		
2	990	2500	3550		
3	1285	2500	2750		
4	1580	1800	2250		
5	1825	1400	1950		
6	2090	1200	1700		
7	2290	1050	1550		
8	2490	950	1400		
9	2690	850	1300		
10	2890	770	1200		
11	3090	700	1150		
12	3290	650	1050		
13	3490	600	1000		
14	3690	560	950		

3.5 Calculation

The design is in accordance with EN 13155: "Double load without plastic deformation".

4 Setup and commissioning

The Teleskoplader is delivered in completely assembled form, is ready for operation without special commissioning and can be moved with the specified lifting equipment (forklift).

Before initial use, the operator checks whether the Teleskoplader corresponds to the model ordered and that the scope of delivery is complete.

A qualified person must perform an inspection before first commissioning. Only perform commissioning once any detected defects have been eliminated.

5 Operation

5.1 Safety information



DANGER!

Falling or uncontrolled parts during lifting, transportation and lowering. Transporting people on the load / with the LAM.

Risk of fatal injury and various injury hazards!

- Persons are forbidden from dwelling under the suspended load.
- Moving loads over the top of persons is prohibited.
- It is prohibited to transport persons on the load / with the LAM.
- Ensure that persons maintain a sufficient safe distance.
- Only lift and transport with direct visual monitoring. If unobstructed visibility is not possible, be guided by a second person located outside the danger zone.



DANGER!

Tilting the load, toppling of the forklift truck due to incorrect loading.

Risk of death and danger of crushing!

- Observe the maximum permissible loads for each of the positions on the LAM.
- Observe the specifications for loading the forklift truck.
- Observe the centre of gravity of the forklift-load-combination.
- Move the forklift truck/load slowly to prevent any major oscillating movements.
- Observe the information about the intended attachment points on the load!
- Observe the weight and centre of gravity of the load!



WARNING!

Load / parts of the load may fall due to the use of unapproved, unsuitable or defective lifting equipment!

Risk of fatal injury and crushing hazard in the movement area.

- Only use approved, suitable and undamaged lifting devices and lifting gear.
- Ensure sufficient load-bearing capacity of the lifting equipment.

Operating Instructions

- Teleskoplader Type KT/KTH/KT-K/KTH-K/KT-Z/KTH-Z -



⚠ WARNING!

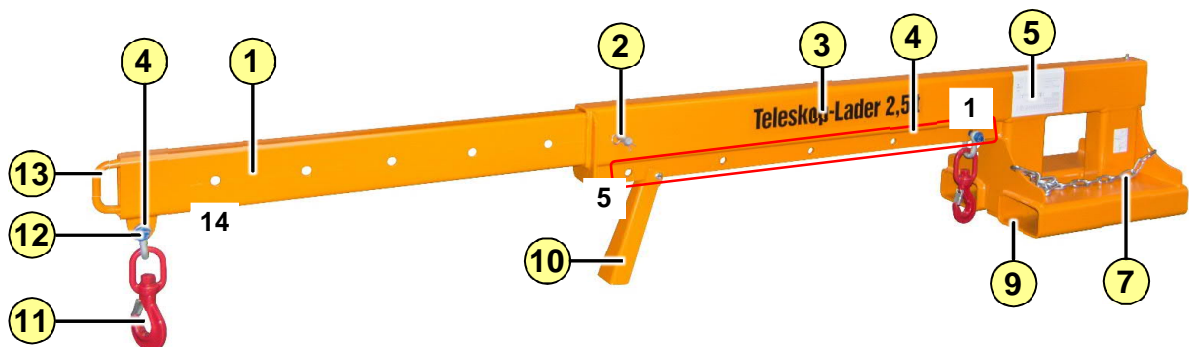
The Teleskoplader may topple!

Danger of crushing inside the movement area of the Teleskoplader.

- Set the Teleskoplader down on a level surface.
- Drive the telescopic arm in fully.
- Unfold the front support on the telescopic arm.

5.2 Operating the Teleskoplader type KT and KT-K

Type KT



Type KT-K

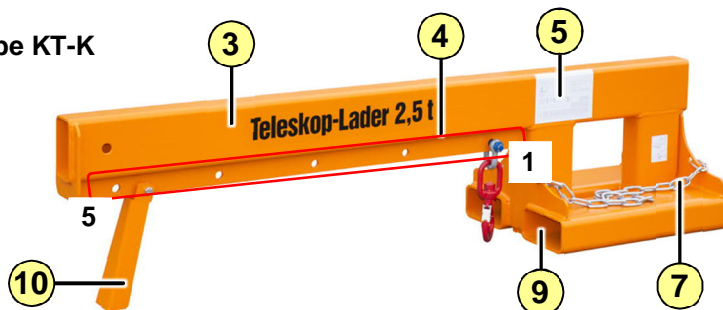


Fig. 5-1: Teleskoplader KT / KT-K

- Align the mast of the forklift vertically and adjust forklift forks to match the distance between the fork pockets (9).
- Drive the forks into the fork pockets of the telehandler.
- Lay the fastening chain (7) around the fork carriage or back of the forks, pull tight and secure by hooking the carabiner into a chain link.



Fig. 5-2: Shackle for the swivel hook

- Release the split pin (14) and nut (15) from the bolt (16) of the shackle (12), remove the bolt (16) in order to detach the shackle (12).
- Hold the shackle (12) with swivel hook (11) at the corresponding hole (4).
- Insert the bolt (16) back through the holes in the shackle (12).
- Screw on the nut (15) and secure with the split pin (14).
- **Only with type KT:** Insert telescopic tube
 - Remove cotter pin from bolt 1 (2).
 - Pull out bolt 1 (2),
 - Grasp the handle (13) and set the distance of the telescopic tube (1).
 - Insert bolt 1 (2) back through the hole and secure with the cotter pin.
- Fold in the support foot (10) as required.

The mobility of the support foot can be adjusted by tightening or loosening the self-locking nut.
- Attach the load to the swivel hook (11). When doing so, consider the load table.
- Raise the mast and slowly move the telehandler to the desired position, in accordance with the safety instructions above.
- Lower the load, open the swivel hook and unhook the load.
- After using the telehandler, drive it back to the set-down place. Lower the mast.
- Open the carabiner of the fastening chain (7), remove it from the forklift and hook it back into a link of the chain.

WARNING: Risk of injury due to tipping Teleskoplader. Only place Teleskoplader on level surface.

5.3

Operating the Teleskoplader type KTH and KTH-K

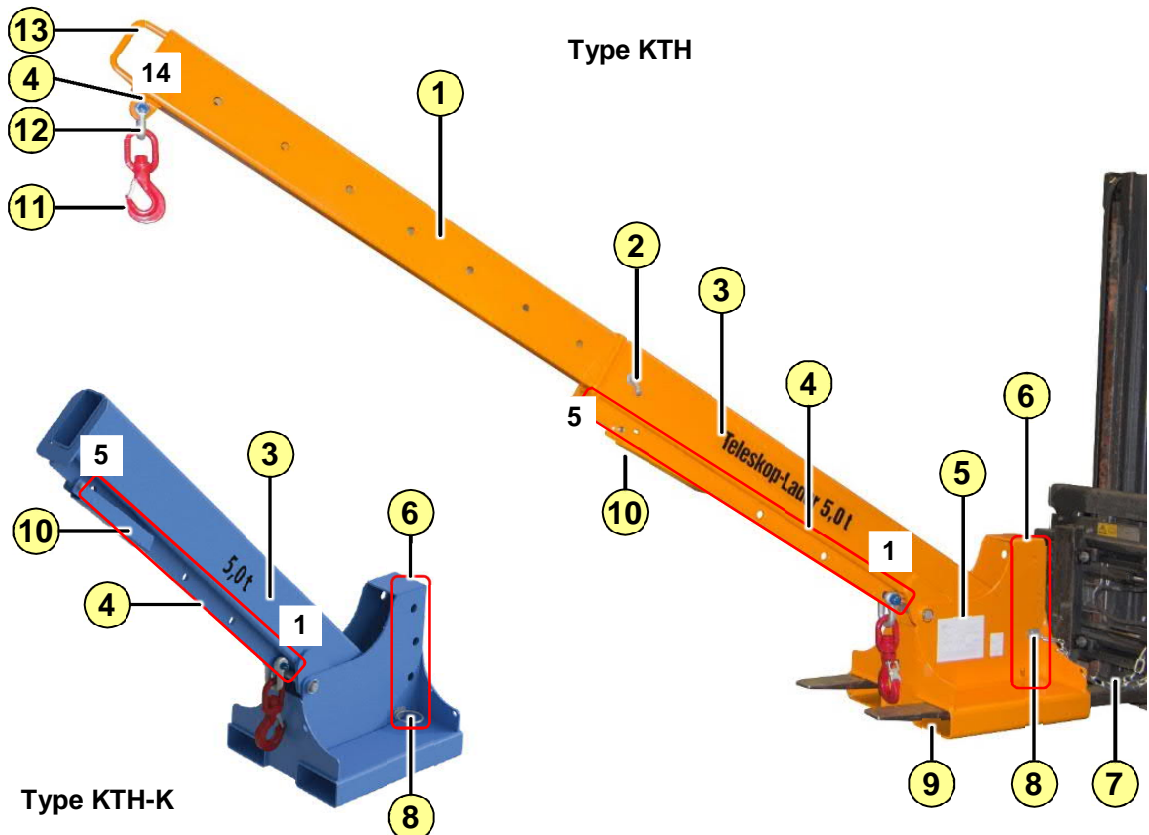


Fig. 5-3: Assemblies Teleskoplader KTH / KTH-K

- Align the mast of the forklift vertically and set the forklift forks to match the distance between the fork pockets (9).
- Drive the forks into the fork pockets of the telehandler.
- Lay the fastening chain (7) around the fork carriage or back of the forks, pull tight and secure by hooking the carabiner into a chain link.

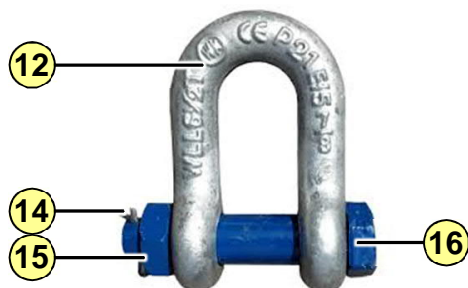


Fig. 5-4: Shackle for the swivel hook

- Release the split pin (14) and nut (15) from the bolt (16) of the shackle (12), remove the bolt (16) in order to detach the shackle (12).
- Hold the shackle (12) with swivel hook (11) at the corresponding hole (4).
- Insert the bolt (16) back through the holes in the shackle (12).
- Screw on the nut (15) and secure with the split pin (14).

- **Only with type KTH:** Insert telescopic tube
 - Remove cotter pin from bolt 1 (2).
 - Pull out bolt 1 (2),
 - Grasp the handle (13) and set the distance of the telescopic tube (1).
 - Insert bolt 1 (2) back through the hole and secure with the cotter pin.

WARNING: Risk of crushing between the load arm and housing whilst the bolt 2 (8) is being removed. Do not reach between the load arm and housing. A second person is required to support the load arm.

- Remove the linchpin from the bolt 2 (8), draw out the bolt 2 (8), bring the hollow profile (3) into the desired inclined position, insert the bolt 2 (8) in the corresponding hole (6) and secure with the linchpin.
- Fold in the support foot (10) as required.

The mobility of the support foot can be adjusted by tightening or loosening the self-locking nut.
- Attach the load to the swivel hook (11). When doing so, consider the load table.
- Raise the mast and slowly move the telehandler to the desired position, in accordance with the safety instructions above.
- Lower the load, open the swivel hook and unhook the load.
- After using the telehandler, drive it back to the set-down place.
- Lower the mast.
- Open the carabiner of the fastening chain (7), remove it from the forklift and hook it back into a link of the chain.

WARNING: Risk of injury due to tipping Teleskoplader. Only place Teleskoplader on level surface.

- Drive the forklift truck out of the fork pockets.

5.4 Operating the Teleskoplader type KT-Z



The hydraulic operating pressure on the forklift truck must be at least 140 bar and must not exceed max. 250 bar.

Operating Instructions

- Teleskoplader Type KT/KTH/KT-K/KTH-K/KT-Z/KTH-Z -

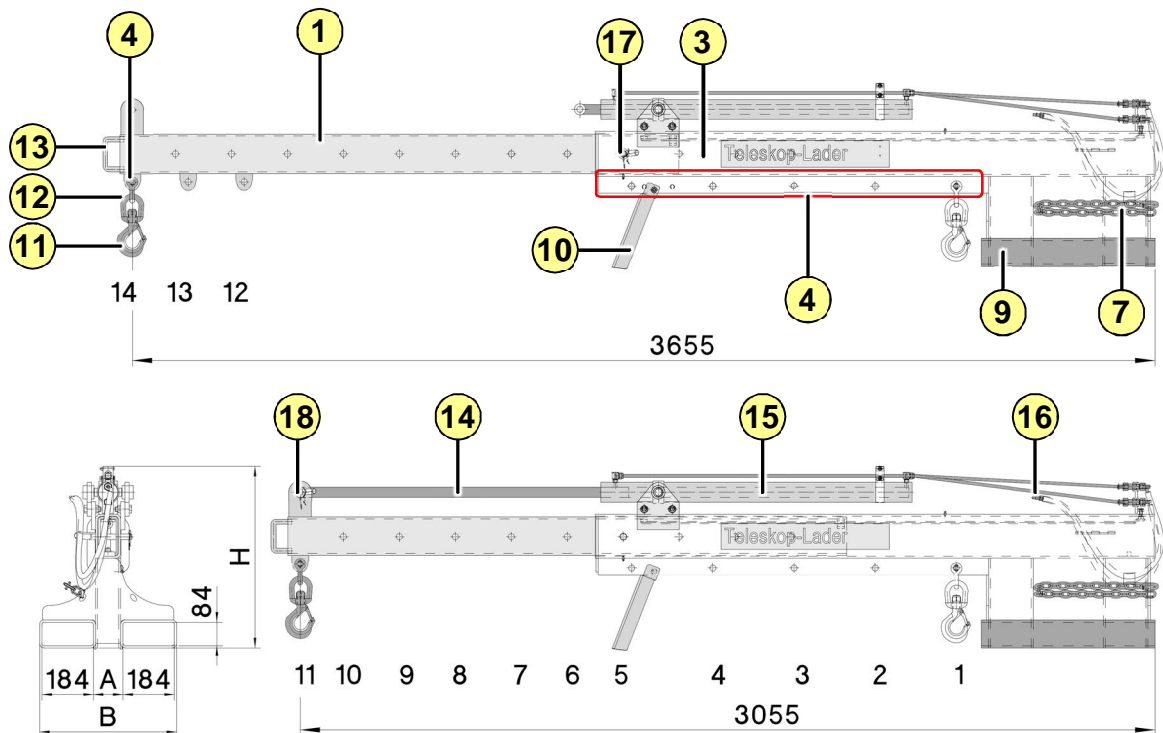


Fig. 5-5: Teleskoplader KT-Z

- Align the mast of the forklift vertically and adjust forklift forks to match the distance between the fork pockets (9).
- Drive the forks into the fork pockets of the telehandler.
- Lay the fastening chain (7) around the fork carriage or back of the forks, pull tight and secure by hooking the carabiner into a chain link.
- Connect the hydraulic hoses (16) to the hydraulic system of the forklift.



Fig. 5-6: Shackle for the swivel hook

- Release the split pin (19) and nut (20) from the bolt (21) of the shackle (12), remove the bolt (21) in order to detach the shackle (12).
- Hold the shackle (12) with swivel hook (11) at the corresponding hole (4).
- Insert the bolt (21) back through the holes in the shackle (12).
- Screw on the nut (20) and secure with the split pin (19).

- On the hydraulic control unit of the forklift truck, drive the telescopic tube to the desired distance

The KT-Z is designed for a steplessly telescoping length of max. 1000 mm up to position 11 (see table). The further positions 12 to 14 must be set manually.

- **Manually setting the telescopic tube**

- Remove cotter pin from bolt 3 (18).
- Pull out bolt 3 (18).
- Grasp the handle (13) and set the distance of the telescopic tube (1).
- Insert bolt 3 (18) back through the hole (17) and secure with the cotter pin.
- Fold in the support foot (10) as required.
The mobility of the support foot can be adjusted by tightening or loosening the self-locking nut.
- Attach the load to the swivel hook (11). When doing so, consider the load table.
- Raise the mast and slowly move the telehandler to the desired position, in accordance with the safety instructions above.
- Lower the load, open the swivel hook and unhook the load.
- After using the telehandler, drive it back to the set-down place. Lower the mast.
- Open the carabiner of the fastening chain (7), remove it from the forklift and hook it back into a link of the chain.

WARNING: Risk of injury due to tipping Teleskoplader. Only place Teleskoplader on level surface.

5.5 Operating the Teleskoplader type KTH-Z



The hydraulic operating pressure on the forklift truck must be at least 140 bar and must not exceed max. 250 bar.

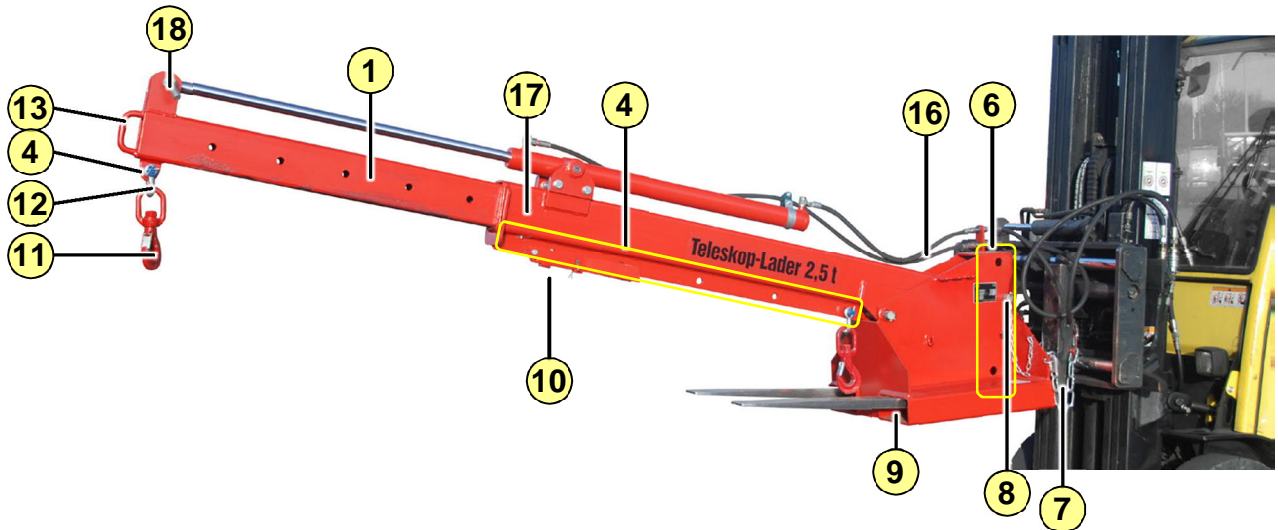


Fig. 5-7: Teleskoplader KTH-Z

- Align the mast of the forklift vertically and adjust forklift forks to match the distance between the fork pockets (9).
- Drive the forks into the fork pockets of the telehandler.
- Lay the fastening chain (7) around the fork carriage or back of the forks, pull tight and secure by hooking the carabiner into a chain link.
- Connect the hydraulic hoses (16) to the hydraulic system of the forklift.



Fig. 5-8: Shackle for the swivel hook

- Release the split pin (19) and nut (20) from the bolt (21) of the shackle (12), remove the bolt (21) in order to detach the shackle (12).
- Hold the shackle (12) with swivel hook (11) at the corresponding hole (4).
- Insert the bolt (21) back through the holes in the shackle (12).
- Screw on the nut (20) and secure with the split pin (19).
- On the hydraulic control unit of the forklift truck, drive the telescopic tube (1) to the desired distance.

The KTH-Z is designed for a steplessly telescoping length of max. 1000 mm up to position 11 (see chap. 3.3.2). The further positions 12 to 14 must be set manually.

➤ **Manually setting the telescopic tube**

- Remove cotter pin from bolt 3 (18).
- Pull out bolt 3 (18).

- Grasp the handle (13) and set the distance of the telescopic tube (1).
- Insert bolt 3 (18) back through the hole (17) and secure with the cotter pin.

WARNING: Risk of crushing between the load arm and housing whilst the bolt 2 (8) is being removed. Do not reach between the load arm and housing. A second person is required to support the load arm.

- Remove the linchpin from the bolt 2 (8), draw out the bolt 2 (8), bring the hollow profile (3) into the desired inclined position, insert the bolt 2 (8) in the corresponding hole (6) and secure with the linchpin.
- Fold in the support foot (10) as required.
The mobility of the support foot can be adjusted by tightening or loosening the self-locking nut.
- Attach the load to the swivel hook (11). When doing so, consider the load table.
- Raise the mast and slowly move the telehandler to the desired position, in accordance with the safety instructions above.
- Lower the load, open the swivel hook (11) and unhook the load.
- After using the telehandler, drive it back to the set-down place. Lower the mast.
- Open the carabiner of the fastening chain (7), remove it from the forklift and hook it back into a link of the chain.

WARNING: Risk of injury due to tipping Teleskoplader. Only place Teleskoplader on level surface.

- Drive the forklift backwards until the fork pockets (9) release the forks.

6 Troubleshooting and fault elimination

After unusual incidents such as an overload, the Teleskoplader must be visually inspected by a qualified person, even outside of the specified inspection periods.

The Teleskoplader must be checked for mechanical damage and deformations, and the supervisor must be informed if applicable.

Deformed parts may only be repaired after consultation with the manufacturer.

7 Maintenance

7.1 Safety



WARNING!

Servicing and repair work performed improperly lead to reduced load-bearing capacity and malfunctions.

Various risks of injury!

- Have maintenance and repair work performed by authorised personnel.
- The specifications of the manufacturer must be observed with purchased components.
- If components have been removed, ensure correct assembly, reattach all fasteners and observe bolt tightening torques.



WARNING!

The Teleskoplader may topple!

Danger of crushing inside the movement area of the Teleskoplader.

- Set the Teleskoplader down on a level surface.
- Drive the telescopic arm in fully.
- Unfold the front support on the telescopic arm.

7.2 Servicing

The Teleskoplader must be checked by an expert for good condition, function, completeness, deformation, wear, damage and cracks as a minimum:

- Before first commissioning
- At least yearly
- After a repair or renewed assembly

The results must be documented in an inspection report.

7.2.1 Maintenance plan and work (operator)

Any parts that have become defective and must be replaced during maintenance can be found on the assembly drawing.

Inspection and maintenance checklist

Frequency	Object	Activity
Daily	Complete Teleskoplader	Check for wear and defects Verify proper function
Daily	Fastening chain	Check for presence, completeness and defects

Frequency	Object	Activity
Monthly	Complete Teleskoplader	Check for wear, permanent deformation, cracks and corrosion that negatively impacts the function or load-bearing capacity

7.2.2 Maintenance plan and work (specialist personnel)

The following maintenance work must only be performed by specialist personnel of BAUER or an authority commissioned by BAUER.

Object	Activity
Complete Teleskoplader	Inspection by qualified person (in accordance with BetrSich [Industrial Safety Ordinance] sec. 10 and 11)*
Safety equipment	Inspection by qualified person

*All inspections must be documented. Teleskoplader with identified defects must be decommissioned immediately.

7.3 Repair

Repairs of the Teleskoplader must be performed exclusively by the manufacturer or authorities commissioned by it.

Only original spare parts must be used.

8 Decommissioning, disassembly and disposal

No special requirements on decommissioning, disassembly and disposal exist.

9 Spare parts list



Ordering spare parts:

Bauer GmbH
Eichendorffstr. 62
D-46354 Südlohn
Tel.: +49 2862 709 – 0
Fax: +49 2862 709 – 156
Email: info@bauer-suedlohn.de

To process your order quickly, we need the following information:

- our spare part item number
- our spare part item name
- order quantity
- name of the device, manufacturing number and year of manufacture



10 Annex

10.1 Declaration of conformity

The declaration of conformity is included in the delivery in the machine documentation.