Carrying Ram
T185
Carpet Carrying Ram
T 185T
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8. Spare parts list

Our service department in Aschaffenburg will be happy to answer your technical questions and to provide additional support.

Technical Support:
0049 (0)6021 865 395
0049 (0)6021 865 284
0049 (0)6021 865 352

Orders for spare parts Domestic
0049 (0) 6021 865205
0049 (0) 6021 865251

Orders for spare parts Export
0049 (0) 6021 865344
0049 (0) 6021 865348

Outside of normal business hours the Kaup – Service Hotline is available to you 365 days a year:
0049 (0) 172 6295 297
Monday - Friday: 17:00 – 7:00 Uhr
Saturday und Sunday: 8:00 – 18:00 Uhr

Kaup GmbH & Co KG • Braunstr. 17 • D-63741 Aschaffenburg • email: kaup@kaup.de • www.kaup.de
1. Introduction

1.1 Working with this manual

This operating manual contains important information on how to operate the attachment properly, safely and efficiently.

The operating manual shall be read, understood and applied by all personnel working on or with the equipment, for example:

- Installation and operating the equipment
- Inspection, maintenance and repair
- Transport and disposal

The manual must be kept available for ready reference at the equipment’s place of use.

The illustrations in this operating manual may deviate from the actual version of the equipment.

1.2 Warning notes and symbols

The following symbols are used in this operating manual to highlight details of special importance:

⚠️ Identifies details relating to do’s and don’ts for the purpose of avoiding injury and property damage.

지도 Specific details relating to the efficient use of the attachment and other advice.

• Lists are denoted by a shadowed box.

• Steps to be performed by the operator are denoted by a black dot.

(1) In illustrations, particular elements have numbered pointers. Numbers in brackets in the text refer to the corresponding elements.

1.3 Copyright

This documentation including all parts is copyrighted. Any use or change outside the narrow limits of copyright law without permission from KAUP GmbH & Co KG is forbidden and liable to prosecution. This applies, in particular, to reproduction, translation, microfilming as well as storage and processing in electronic systems.
1.4 CE-Mark

KAUP-Attachments carry the CE-mark. The EC Declaration of Conformity ensures that the attachment conforms to the EC machinery guideline.

1.5 Qualified and authorised personnel

Qualified and authorised personnel are equipped by way of their education and training to perform the tasks assigned to them in accordance with accepted practice and safety regulations. They are assigned tasks by the equipment owner.

1.6 Warranty claims based on defects

KAUP shall not be liable for any damage to the equipment resulting from:

- Improper use / operation.
- Modifications to components.
- Inappropriate installation, maintenance, inspection and servicing.
- Assignment of unqualified or non-authorised personnel.
- Claims raised by third parties.

1.7 Limits of applicable use

KAUP-attachments are intended for use under the following climatic conditions:

- Average ambient temperature for continuous operation: +25°C
- Allowable maximum ambient temperature, short term (up to 1h): +40°C
- Allowable minimum ambient temperature for attachments intended for indoor use: +5°C
- Allowable minimum ambient temperature for attachments intended for outdoor use: -20°C

Standard models of KAUP-attachments are NOT suitable for:

- Use in cold storage facilities.
- Use in explosive environments.
- Use in conjunction with hydraulic systems involving biological oils.
- Use in rough environmental conditions (e.g. seawater)
- The transport of acidic liquids.
2. Safety aspects

As the user, extend the safety instructions with generally applicable, legal and other measures that ensure a safe and environmentally friendly operation of the attachment.

Pay close attention to all safety- and danger-related signs on the attachment and in this operating manual. Failure to observe these can result in severe injury or even death.

Pay close attention to the operating manual provided by the manufacturer of the fork lift truck.

Keep a safe distance away from moving, reciprocating or rotating parts of the attachment to avoid danger of crushing, pinching or entanglement.

Notify the responsible department/person immediately of changes and faults in operation of the attachment that affect safety.

The attachment shall be shut down.

Use aids to vision (e.g. mirrors, camera, etc.) where goods being transported obstruct vision.

Only allow work on the attachment to be carried out by qualified and authorised persons. Adhere to the legal minimum age in the country of operation!

The attachment should only be used for the purpose intended.

Never work on or with attachments while under the influence of drugs, alcohol or medicines which affect reaction time.
3. Design

Variant 1

Variant 2
The support bar consists of a base plate (1) and a carrying element (2) welded on.

**Version 1** is attached to the lift truck by means of welded or bolted upper brackets (3) and bolted lower brackets (4).

**Version 2** is attached to the lift truck by means of welded upper fork hooks (3), lock (4), and bolted lower brackets (5).

**Version 3** is attached to the pin type connector of the lift truck by means of welded upper receptacles (1) using a pin (not supplied).

### 3.1 Proper use of the equipment

Support bars are designed to take loads (carpet rolls, rolls of wire, concrete pipes) and to transport them.

Proper use of the machine and/or equipment includes the following:

- Observance of the operating manual at all times.
- Observance of the technical data on the identification plate on the attachment.
- Adherence to the specified inspection and maintenance instructions.
3.2 Improper use

- Exceeding the allowable load capacity and load centre.
- Dragging or pushing loads with the attachment
- Transporting persons with the load or load handling devices
- Mounting auxiliary equipment on the attachment such that the original mode of usage is changed, (e.g. fork extensions) must be authorised by the manufacturer.

4. Installation and checking out

4.1 Installation

Installation and commissioning should be performed by qualified and authorised personnel only.

Pay attention to a sufficient load-carrying capacity of the lifting means.

The following are examples of preferred lifting means:

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Part-no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 kg/M16</td>
<td>9710160008</td>
</tr>
<tr>
<td>1200 kg/M16</td>
<td>0360010201</td>
</tr>
<tr>
<td>2000 kg/M16</td>
<td>0360010301</td>
</tr>
</tbody>
</table>
4.1.1 Variant 1

- Hoist the attachment at the positions indicated (1).
- Demount the lower hooks (2).
- Mount the attachment on the fork carriage of the lift truck.
- Check that the attachment is correctly seated in the centre lock (3).
- Mount the lower hooks (2), tightening the screws (4) and (5) with a torque of 190 Nm.
- Mount the residual carrying capacity notice and identification of the operating elements (if not already present) of the combination of lift truck/attached equipment on the lift truck.
4.1.2 Variant 2

- Hoist the attachment at the positions indicated (3).
- Rotate the lever (1) of the lock by 90°.
- Demount the lower hooks (4).
- Mount the attachment on the fork carriage of the lift truck.
- Ensure that the lever (1) of the lock is rotated back by 90° and the lock is seated in the groove (2).
- Mount the lower hooks (4), tightening the screws (5) with a torque of 190 Nm.
- Mount the residual carrying capacity notice and identification of the operating elements (if not already present) of the combination of lift truck/attached equipment on the lift truck.
4.1.3 Variant 3

- Hoist the attachment at the positions indicated (1).

- Remove the shaft (2) from the fork carriage (3) of the lift truck by removing the screws (4) and tab (5).

- Install the attachment to the fork carriage (3) of the lift truck by inserting the shaft (2) from the side. Ensure that the spacers (7) are installed between the two welded pipes (6). Reinstall the screw (4) and tab (5).

- Mount the residual carrying capacity notice and identification of the operating elements (if not already present) of the combination of lift truck/attached equipment on the lift truck.
5. **Operation**

5.1 **General**

- At least once per working shift, the machine and equipment must be inspected for visible damage and defects. Repeat faults to your superior and have them rectified without delay.
- Be aware of persons present in the area where you are working or driving and ensure that they are not endangered.
- Do not transport any load exceeding that specified on the residual load plate for the particular combination of lift truck and attachment.

5.2 **Load handling**

- Position the mast vertically and take up the load parallel to the floor.
- Drive the attachment up to the load to maximum extent.
- Raise the load about 300 mm and tilt the mast backwards.

5.3 **Driving**

- Ensure a proper state of the load to be transported.
- Do not drive with the mast tilted forward.
- Take care when driving that neither the attachment nor the load comes into contact with the ground.

6. **Maintenance and servicing**

6.1 **General**

Regular maintenance is essential to ensure reliable operation and long service life of the KAUP attachment.

- Ensure that maintenance and servicing are performed by qualified and authorised personnel only.
- Perform maintenance and servicing work only when the attachment is parked securely on a stable, level foundation. For installing and removing, it is recommended to use a pallet to take the attachment. The attachment can thus be securely placed and transported.
- Pay attention to a sufficient load-carrying capacity of the lifting means.
Replace missing or defective warning signs on the attachment.

**Warning**
Do not use third party spare parts. Through poor quality or incorrect matching they can result in a risk of accident. The EC Declaration of Conformity by the manufacturer becomes invalid and you assume full responsibility in the case of accident.

Use only original spare parts from the manufacturer.

**Warning**
Screw connections can loosen due to vibration of the attachment. During routine maintenance check that screw connections are correctly torqued and replace screws which are visibly damaged.

Note the following tightening torques which are valid for screws with connecting surfaces according to ISO 4762, ISO 4014, ISO 4032 etc.:

<table>
<thead>
<tr>
<th>Screw/bolt rating</th>
<th>8.8</th>
<th>10.9</th>
<th>12.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6 thread</td>
<td>9,3Nm</td>
<td>14Nm</td>
<td>16Nm</td>
</tr>
<tr>
<td>M8 thread</td>
<td>23Nm</td>
<td>33Nm</td>
<td>39Nm</td>
</tr>
<tr>
<td>M10 thread</td>
<td>45Nm</td>
<td>66Nm</td>
<td>77Nm</td>
</tr>
<tr>
<td>M12 thread</td>
<td>77Nm</td>
<td>115Nm</td>
<td>135Nm</td>
</tr>
<tr>
<td>M16 thread</td>
<td>190Nm</td>
<td>280Nm</td>
<td>330Nm</td>
</tr>
<tr>
<td>M20 thread</td>
<td>385Nm</td>
<td>550Nm</td>
<td>640Nm</td>
</tr>
</tbody>
</table>

6.2 Significant modification

Significant modifications are, for example, those which affect the stability, performance, speed and strength of components.

The EC Declaration of Conformity is invalidated by a significant modification of the attachment.

Modifications to the attachment may only be made with prior approval by the manufacturer.

6.3 Schedule for routine maintenance and lubricants

The specified maintenance schedules can change as a result of the operating conditions such as extreme cold, heat and dust or poor ground conditions and this must be taken into account by the owner.
6.3.1 Variant 1

Daily

Carry out a visual check of the welded seam (3) base plate (1) / carrying element (2).

After 50h / every 500h thereafter

Check screws:

☐ (4) on the upper hooks (5).
☐ (6) on the lower hook (7).

Replace loose or damaged screws. Torque the screws as specified in Chapter 6.1 General.

Yearly

Check the welded seam (3) base plate (1) / carrying element (2) using a dye penetration method.
6.3.2 Variant 2

**Daily**

- ![Image of a hook and base plate]

- **Carry out a visual check of the welded seam (3) base plate (1) / carrying element (2).**

- **Check proper seating of the lock (4) in the fork hook (5) of the base (1).**

**After 50h / every 500h thereafter**

- **Check screws:**
  - ![Image of a hook and base plate]
  - (6) on the lower hook (7).

- Replace loose or damaged screws. Torque the screws as specified in Chapter 6.1 General.

**Yearly**

- **Check the welded seam (3) base plate (1) / carrying element (2) using a dye penetration method.**
6.3.3 Variant 3

Daily

- Carry out a visual check of the welded seam (3) base plate (1) / carrying element (2).
- Check proper seating of the attachment at the pin type connector of the lift truck.

Yearly

- Check the welded seam (3) base plate (1) / carrying element (2) using a dye penetration method.
6.3.4 Identification plate and caution board
Operating Manual

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>KAUP order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identification plate</td>
<td>only by quality department</td>
</tr>
<tr>
<td>2</td>
<td>Before putting into operation carefully read and take note of the operating and security instructions.</td>
<td>0100016401</td>
</tr>
<tr>
<td>3</td>
<td>Use suspension point!</td>
<td>0100015001</td>
</tr>
<tr>
<td>4</td>
<td>kØxxxxxx</td>
<td>without, engraved in the material</td>
</tr>
</tbody>
</table>

7. EC Declaration of Conformity (Summary)

KAUP GMBH & Co. KG • Braunstraße 17 • D-63741 Aschaffenburg

we hereby declare that the machinery

<table>
<thead>
<tr>
<th>Model:</th>
<th>Carrying Ram / Carpet Carrying Ram</th>
</tr>
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<tbody>
<tr>
<td>Type:</td>
<td>T 185 / T 185T</td>
</tr>
</tbody>
</table>

conforms to the latest valid version of the Machinery Directive 2006/42/EG.

The person authorised to compile the technical documents:

see EC-Declaration of Conformity

KAUP GmbH & Co. KG
8.  Spare parts list

8.1  Variant 1

<table>
<thead>
<tr>
<th>Pict-no.</th>
<th>Part-no.</th>
<th>Quant.</th>
<th>Designation</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>185</td>
<td>1</td>
<td>boom</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>012</td>
<td>2</td>
<td>hook</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>946016</td>
<td>4</td>
<td>screw</td>
<td>ISO 4762-M16</td>
</tr>
<tr>
<td>4</td>
<td>012</td>
<td>2</td>
<td>hook</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>946016</td>
<td>2</td>
<td>screw</td>
<td>ISO 4762-M16</td>
</tr>
</tbody>
</table>
8.2 Variant 2

<table>
<thead>
<tr>
<th>Pict-no.</th>
<th>Part-no.</th>
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<tr>
<td>1</td>
<td>185</td>
<td>1</td>
<td>boom</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>012</td>
<td>2</td>
<td>interlock</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>012</td>
<td>2</td>
<td>hook</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>946016</td>
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<td>screw</td>
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8.3 Variant 3

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