Sideshifter
T 151 P

Options:

- T151 P2
  - sideshift ISO KI 2 ± 80 mm or 100 mm
  - sideshift ISO KI 3 ± 100 mm or 125 mm
  - sideshift ISO KI 4 ± 100 mm or 160 mm

- T151 P4 N
  - sideshift ISO KI 2 ± 80 mm
  - sideshift ISO KI 2 ± 100 mm

- T151 P4 ND
  - sideshift ISO KI 2 ± 80 mm
  - sideshift ISO KI 2 ± 100 mm

- T151 P4-C
  - sideshift ISO KI 2 ± 160 mm

- T151 P-C
  - sideshift up to ± 250 mm
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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: 5 pm to 7 am
Saturday and Sunday: 8 am to 6 pm

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.

.valor Identifies 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

3.1 Model

3.1.1 T151 P2:
The sideshifter T151 P2 consists of a fork carriage (1) suitable for mounting forks or attachments. The housing with a guide rail (2) and hooks with integral rollers (3) are bolted on to the rear side of the fork carriage (1). Stops are mounted on the fork carriage to prevent the forks from sliding off sideways.

3.1.2 T151 P4 N, T151 P4 ND, T151 P4-C:

The sideshifter T151 P4 consists of a fork carriage (1) suitable for mounting forks or attachments. The fork carriage is mounted on a plunger cylinder with integral guide rail (2). Two sliding guides (3) are fixed in the lower part of the fork carriage (1). Stops are mounted on the fork carriage to prevent the forks from sliding off sideways.
3.1.3 T151 P-C:

The sideshifter T151 P-C consists of a fork carriage (1) suitable for mounting forks or attachments. The fork carriage is mounted on a guide rail with a hydraulic cylinder (2). Two hooks with rollers (3) are screwed to the lower part of the fork carriage (1). Stops are mounted on the fork carriage to prevent the forks from sliding off sideways.

3.2 Proper use of the equipment

The sideshifter is intended for shifting raised (10 cm) loads sideways. This allows loads on the attached load forks to be positioned precisely in racks or on truck platforms without the need to manoeuvre the fork lift truck.

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.

3.3 Improper use

- Exceeding the allowable load capacity and load centre.
- Dragging or pushing loads with the attachment.
- Moving the load while it is resting on the floor or truck platform.
- 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 T151 P2:

- Hoist the attachment at the positions indicated (1).
- Demount the lower hooks (2).
Mount the attachment on the fork carriage of the lift truck (3).

Check that the attachment is correctly seated in the centre lock (4).

Mount the lower hooks (2), tightening the screws (5) with a torque of 190 Nm.

Connect the hose lines (6) to the hydraulic connectors (7) on the lift truck.

Remove the safety retaining stops (8) and slide the fork arms onto the fork carrier from the side.

Make sure that all safety retaining stops (8) have been correctly reinstalled.

Before initial operation, check the functions and the identification of the attachment with the movement directions of the operating elements (operating lever, joystick, etc.).

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 T151 P4 N, T151 P4 ND, T151 P4-C:

Hoist the attachment at the positions indicated (1).

Mount the attachment on the fork carriage of the lift truck (3) and hang the fork carriage (2) on to the carriage on the lift truck.

Check that the attachment is correctly seated in the centre lock (4).
• Slide the lower hooks (5) into the fork carriage from the side.

• Screw in the screws (6) and tighten the locknuts (7). The hook (5) must remain free to move and must exhibit a clearance of 1-2 mm from the fork carriage of the lift truck.

• Connect the hydraulic connectors (8) to those on the lift truck using tube or hose lines.

• Remove the safety retaining stops (9) and slide the fork arms onto the fork carrier from the side.

• Make sure that all safety retaining stops (9) have been correctly reinstalled.

Before initial operation, check the functions and the identification of the attachment with the movement directions of the operating elements (operating lever, joystick, etc.).

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 T151 P-C:

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

• Demount the lower hooks (2).

• Mount the attachment on the fork carriage of the lift truck (3).

• Check that the attachment is correctly seated in the centre lock (4).
• Mount the lower hooks (2), tightening the screws (5) with a torque of 190 Nm.

• Connect the hydraulic connectors (6) to those on the lift truck using tube or hose lines.

• Remove the safety retaining stops (7) and slide the fork arms onto the fork carrier from the side.

• Make sure that all safety retaining stops (7) have been correctly reinstalled.

Before initial operation, check the functions and the identification of the attachment with the movement directions of the operating elements (operating lever, joystick, etc.).

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.

4.2 Checking out

KAUP-attachments are delivered pre-lubricated. If the attachment has been in storage for a longer period, we recommend that it be lubricated again before being placed in service. See 6. Maintenance and onwards.

Failure of the safety devices (e.g. the pressure relief valve and the non-return valve) and incorrect connection of the controls to the actuators can cause malfunctioning of the attachment and damage to it. After mounting and before initial operation, check the functions and the identification of the attached equipment with the movement directions of the operating elements (operating lever, joystick, etc.).

4.2.1 Bleeding the hydraulic system

• Start the lift truck.
• Move the sideshifter repeatedly in both directions to maximum extent.
• Inspect the hydraulic connections for leakage.

4.2.2 Adjustment after entry into service

The hydraulic system is under pressure. During work on hydraulic components oil spurtiong out can cause injuries. Unload the system in accordance with the operating instructions of the lift truck manufacturer. In the case of injuries caused by high pressure oil, inform the works physician and seek out a specialist immediately.
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.
- The nominal capacity of the forks must exceed the load.

5.2 Load handling

- Set the forks as wide apart as possible for the load to be carried.
- Position the mast vertically and take up the load parallel to the floor.
- Always transport pallets, boxes and containers using both forks.
- Drive the attachment up to the load to maximum extent.
- Raise the load about 300 mm and tilt the mast backwards.
- Centre the load to the middle of the lift truck during take-up and transport.

5.3 Driving

- Ensure that pallets, boxes, containers and packaging are in good condition.
- 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.
- Ensure that multiple items stacked on top of one another are securely fastened.
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.

Lubrication and cleaning work on the attachment may also be performed by the lift truck operator.

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.

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.

The hydraulic system is under pressure. During work on hydraulic components oil spurting out can cause injuries. Unload the system in accordance with the operating instructions of the lift truck manufacturer. In the case of injuries caused by high pressure oil, inform the works physician and seek out a specialist immediately.

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>
Failure of the safety devices (e.g. the pressure relief valve and the non-return valve) and incorrect connection of the controls to the actuators can cause malfunctioning of the attachment and damage to it. After mounting and before initial operation, check the functions and the identification of the attached equipment with the movement directions of the operating elements (operating lever, joystick, etc.).

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

<table>
<thead>
<tr>
<th>Greases</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium soap grease</td>
<td>e.g. Avialith 2</td>
</tr>
<tr>
<td>NLGI Class 2</td>
<td>Designation DIN51825: K 2 K-30</td>
</tr>
<tr>
<td>Complex soap grease</td>
<td>e.g. Turmogrease Gel M 5</td>
</tr>
<tr>
<td>NLGI Class 2</td>
<td>Foundry quality</td>
</tr>
<tr>
<td>Teflon spray</td>
<td>e.g. Wieds or Rivolta</td>
</tr>
<tr>
<td></td>
<td>Only for plastic sections</td>
</tr>
</tbody>
</table>

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.

With other loads, such as fork arms with a length of over 2,400 mm or raised load centres, amended/shorter maintenance intervals should be agreed by the user with the manufacturer.

**Exception:** 2T151P4N / 2T151P4N-C - maximum permitted fork length 1600 mm.
6.3.1 T151 P2:

Daily

- Check all lines, hoses and connections for leakage and damage.
- Ensure that all fork safety retaining stops (6) are present and undamaged.

After 50h / every 500h thereafter

- Check:
  - Screws (1) on the sideshifter housing (7).
  - Screws (2) on the hooks (8).
  - Screws on the fork safety retaining stops (6).
- Replace loose or damaged screws. Torque the screws as specified in Chapter 6.1 General.

Weekly

Grease:

- Sliding pieces (3) by way of the greasing nipples (4).
- Supporting rollers on the lower hooks (5) as necessary.

Every 200h

- Check wear on:
  - Sliding pieces (3).
  - Supporting rollers (9).
As necessary

Replace worn sliders (3) by removing the screws (2) on the hooks (8). Use appropriate lifting equipment to lift the fork carriage (10) off the fork carriage base of the lift truck. Replace the sliders (3). During installation pay close attention that the sliders (3) are seated correctly. Use appropriate lifting equipment to lower the fork carriage (10) onto the fork carriage base of the lift truck from above and use the bolt (2) to secure the bracket (8).

Replace defective supporting rollers (9) in the hooks (8) by removing the screws (2) in the hooks (8). Tilt the fork carriage (10) forward and off the fork carriage base of the lift truck so that the support roller (9) no longer rests, and secure this position. Remove the bolts in the hooks (8), remove the defective supporting rollers (9) and replace them with new ones. Tilt the fork carrier (10) back onto the fork carriage base of the lift truck and install the bracket (8) using the bolt (2).

6.3.2 T151 P4 N, T151 P4 ND, T151 P4-C:

Daily

Check all lines, hoses and connections for leakage and damage.

Ensure that all fork safety retaining stops (1) are present and undamaged.
After 50h / every 500h thereafter

Check:

- Screws on the fork safety retaining stops (1).
  Replace loose or damaged screws. Torque the screws as specified in Chapter 6.1 General.

Weekly

Grease:

- Sliding pieces (3) by way of the greasing nipples (2).
- Sliding pieces (4) by way of the greasing nipples (2).

Every 200h

Check wear on:

- Sliding pieces (3).
- Piston rod (9).

Check the clearance between the fork carriage on the lift truck (6) and the lower hooks (5). The clearance should be 1-2 mm. Correct the amount of clearance using the screw (7) and then tighten the lock nut (8).

Every 500h

Check wear on:

- Sliding pieces (4).

As necessary

Replace worn sliders (3) by removing the nut (8) and the screw (7). Slide the hook (5) and the slider (4) sideways out of the fork carriage. Use appropriate lifting equipment to lift the fork carriage off the fork carriage base (6) of the lift truck. Replace the sliders (3). During installation pay close attention that the sliders (3) are seated correctly. Use appropriate lifting equipment to lower the fork carriage onto the fork carriage base (6) of the lift truck from above and use the bolt (7) and nut (8) to secure the bracket (5).

Replace worn sliders (4) by removing the nut (8) and the screw (7). Slide the hook (5) and the slider (4) sideways out of the fork carriage. Exchange the sliders (4). Reinstall the nut (8) and screw (7).
**6.3.3 T151 P-C:**

Piston rod (9), guide bush (10), seal kit (11, 12): Replace worn parts by removing the nut (8) and the screw (7). Slide the hook (5) and slider (4) to the side, out of the fork carriage. Use appropriate lifting equipment to lift the fork carriage off the fork carriage base (6) of the lift truck. With the hydraulic system depressurised, extract the piston rod (9) to the side. Push the washer (13) out of the top beam. Replace faulty parts and reinstall the sealing kit (11, 12), guide bushing (10), washer (13), and piston rod (9). Use appropriate lifting equipment to lower the fork carriage onto the fork carriage base (6) of the lift truck from above and move the bracket (5) and slider (4) onto the fork carriage from the side. Secure them using the bolt (7) and nut (8).

Daily

- Check all lines, hoses and connections for leakage and damage.
- Ensure that all fork safety retaining stops (1) are present and undamaged.
After 50h / every 500h thereafter

Check:
- Screws on the hooks (8).
- Screws on the fork safety retaining stops (1).

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

After every installation or de-installation of a hydraulic cylinder, check the clearance between the cylinder take-up and the nut on the cylinder (6).
Cylinders are installed with an axial clearance of 1.5 to 2.0 mm.

Weekly

Grease:
- Sliding pieces (3) by way of the greasing nipples (4).
- Supporting rollers on the lower hooks (5) as necessary.

Every 200h

Check wear on:
- Sliding pieces (3).
- Supporting rollers (7).

As necessary

Replace worn sliders (3) by removing the screws (2) on the hooks (8). Use appropriate lifting equipment to lift the fork carriage (9) off the fork carriage base of the lift truck. Replace the sliders (3). During installation pay close attention that the sliders (3) are seated correctly. Use appropriate lifting equipment to lower the fork carriage (9) onto the fork carriage base of the lift truck from above and use the bolt (2) to secure the bracket (8).

Replace defective supporting rollers (7) in the hooks (8) by removing the screws (2) in the hooks (8). Tilt the fork carriage (9) forward and off the fork carriage base of the lift truck so that the support roller (7) no longer rests, and secure this position. Remove the screws in the hooks (8), remove the defective supporting rollers (7) and replace them with new ones. Tilt the fork carrier (9) back onto the fork carriage base of the lift truck and install the bracket (8) using the bolt (2).
6.3.4 Identification plate and caution board

<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>Never reach into the unit as long as parts could still be moving due to the danger of squashing or shearing.</td>
<td>0100016601</td>
</tr>
<tr>
<td>4</td>
<td>Use suspension point!</td>
<td>0100015001</td>
</tr>
<tr>
<td>5</td>
<td>kaxxxxxx</td>
<td>without, engraved in the material</td>
</tr>
</tbody>
</table>
6.3.5 Forks

Annually

- Inspect the heel of the fork for wear and cracks.
- Remove forks from service when wear exceeds 10% of the thickness of the fork.

As necessary

- Bent forks are not safe to operate and their continued use should be prevented.
- Straightening of forks may only be performed by the manufacturer of the fork or by one of his authorised workshops.
- You can increase the service life of forks by using forks especially protected against wear.

7. Troubleshooting

Troubleshooting should only be performed by qualified and authorised personnel.

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sideshifter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>When shifting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Too slow</td>
<td>Pressure supplied by the FFZ too low</td>
<td>Increase pressure at the FFZ</td>
</tr>
<tr>
<td></td>
<td>Bore of the throttle valve is too small</td>
<td>Rebore the throttle valve or replace it with a larger one</td>
</tr>
<tr>
<td>- Jerky shifting action</td>
<td>Defective supporting roller</td>
<td>Replace supporting roller</td>
</tr>
<tr>
<td></td>
<td>Sliders not properly lubricated</td>
<td>Lubricate sliders</td>
</tr>
<tr>
<td>- Supporting roller does not rotate</td>
<td>Supporting roller is defective</td>
<td>Replace supporting roller</td>
</tr>
<tr>
<td>- Housing scrapes on the conduit</td>
<td>Slider is worn</td>
<td>Replace slider</td>
</tr>
<tr>
<td>- No cushioning at end of travel</td>
<td>Cushion defective</td>
<td>Replace piston rod</td>
</tr>
<tr>
<td>Oil leakage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Is leaking</td>
<td>Screw fitting is leaking</td>
<td>Tighten / seal screw fitting</td>
</tr>
<tr>
<td></td>
<td>Sealing kit defective</td>
<td>Replace sealing kit</td>
</tr>
<tr>
<td></td>
<td>Piston rod scored</td>
<td>Replace piston rod and sealing kit</td>
</tr>
</tbody>
</table>
### Faults and Corrections

<table>
<thead>
<tr>
<th>Fault</th>
<th>Possible cause</th>
<th>Correction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solenoid valve</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not functioning</td>
<td>Solenoid coil defective</td>
<td>Replace solenoid coil</td>
</tr>
<tr>
<td></td>
<td>No power to the magnet</td>
<td>Inspect power cable and connections</td>
</tr>
</tbody>
</table>

*Legend: FFZ = lift truck*

### 8. Disposal

Prevent environmental damage by disposing of the following items properly in accordance with relevant national regulations:

- Hydraulic fluids, greases, lubricants and soiled working materials (Cleaning rags, etc.)
- Packaging material (Pallets, straps, cartons and plastic sheeting)

After decommissioning, the attachment should be disposed of in accordance with local legislation and regulations.

### 9. Transport

During transport of the attachment, care should be given to using appropriate means of support (e.g. pallets). These must not be damaged. The attachment must be secured against slipping or tipping over on the support.

### 10. Decommissioning and storage

If the attachment is to be stored for an extended period, the hydraulic connectors must be sealed against contamination and damage. Store the attachment in a clean, dry environment.

### 11. EC Declaration of Conformity (Summary)

**KAUP GMBH & Co. KG**

Braunstraße 17 • D-63741 Aschaffenburg

We hereby declare that the machinery

- **Model:** Sideshifter T151 P
- **Type:** T151 P2, T151 P4N, T151 P4ND, T151 P4-C, T151 P-C

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**
12. **Spare parts list** (not part of the Operating Manual)