Double Pallet Handler
T 429C, T 429C-2, T 429C-4

T 429C  T 429C-2  Double Pallet Handler with bolt-on forks and sideshift, 1 – 2 pallets

T 429C-4  Double Pallet Handler with bolt-on forks and sideshift, 2 – 4 pallets
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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.

- 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

3.1 Pallet handler with mounting
The double pallet handler consists of a clamp body (1) to which outer slides (2) and inner slides (3) are installed. Fork tines (4) are bolted to the slides.

The outer slides (2) are moved by cylinders (6) that are bolted to the clamp body (1) through sliding pieces (5). The inner slides (3) supported by a shaft (7) are moved by cylinders (8).

For the version with sideshift, sideshift elements (9, 10, 11), roll supports (12), and bolted lower hooks (13) are installed at the clamp body (1). For the version without sideshift, a thread bar (14) is installed instead of cylinder (9) sideshift element.

### 3.2 Power supply specifications

For allowable flow rates, refer to the table below:

<table>
<thead>
<tr>
<th>Type of attachment</th>
<th>Minimum</th>
<th>Optimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,5T, 2T, 3T 429C 2T, 2,5T 429C-4</td>
<td>15</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>3T, 4T 429C-2 3T, 4T 429C-4</td>
<td>25</td>
<td>40</td>
<td>50</td>
</tr>
</tbody>
</table>

### 3.3 Efficient equipment settings on electric vehicles

Please use our reference values for setting the lift trucks and attachments. These are found at www.kaup.de in the Services -> Product Support section.

### 3.4 Proper use of the equipment

Double Pallet Handlers are designed to transport several pallets simultaneously.

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.
3.5 Improper use

- Exceeding the allowable load capacity and load centre.
- Dragging or pushing loads with the attachment.
- One sided pick up of pallets.
- Pick up of pallet with only one fork.
- 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></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>250 kg/M16</td>
<td>9710160008</td>
<td>1200 kg/M16</td>
<td>0360010201</td>
<td>2000 kg/M16</td>
<td>0360010301</td>
</tr>
</tbody>
</table>
• Using appropriate lifting means, lift 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) with a torque of 190 Nm.
• Use pipes or hoses to connect the hydraulic ports (5) to the hydraulic ports of the lift truck.

Trucks equipped with attachments which hold the load by power (e.g. paper clamp) shall feature control(s) with a secondary action to prevent unintentional release of the load. Also take note in this respect of the operating instruction of the lift truck.

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 sideshifting unit repeatedly in both directions to maximum extent.

• Repeatedly cycle the pallet handler / fork positioner from the fully open to the fully closed position.

• 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 spurring 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.
Synchronising the carriages of slides with flow divider

The Pallet Handler is equipped with a flow divider.
The flow divider can have a tolerance of up to 5% of the cylinder stroke.

A visible unevenness of movement can be achieved by fully opening or closing the cylinder in the end position.

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.

Note the load-bearing capacity of the attachment as stated on the rating plate. This figure always represents the load carried by two or more fork arms.

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.
During any disassembly operations, be sure that parts to be disassembled can easily be removed. For removing parts, use the clearance between bolts and the parts to be removed.

Our service videos available at www.kaup.de in the Online Services section may be used for assistance as necessary.

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, NLGI Class 2</td>
<td>e.g. Avialith 2</td>
</tr>
<tr>
<td>Complex soap grease, NLGI Class 2</td>
<td>e.g. Turmogrease Gel M 5</td>
</tr>
<tr>
<td>Teflon spray</td>
<td>e.g. Wieds or Rivolta</td>
</tr>
</tbody>
</table>

Lubricants approved and recommended by KAUP

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.
6.3.1 Pallet handler

13, 16

12, 17, 18, 19

1, 5 – 2 mm

17

13, 16

18

13

12

20

15

10

31

9
6.3.2 Mounting (with or without sideshift)
Daily

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

After 50h / every 500h thereafter

- Check screws:
  - (1) at the stop (2).
  - (3, 3a) on the forks (4, 4a).
  - (21) on the lower hooks (22).
- Replace loose or damaged screws. Torque the screws as specified in Chapter 6.1 General.

- Grease:
  - the sliding pieces (5) of the slides (6, 7) by way of the greasing nipples (8).
  - Sliding pieces (23) by way of the greasing nipples (24).

- The shaft (9) is a low-maintenance item!

Weekly cleaning using Teflon spray or water is recommended.

Every 200h

- Check wear on:
  - Sliding pieces (5).
  - Sliding pieces (23).

- The sliding pieces (10) are low wear and have a long service life. If replacement is required, please contact our **KAUP Customer Service**.

Annually

- Inspect the heel (4, 4a) of the fork (11) for wear and cracks.

- Remove forks from service when wear exceeds 10 % of the thickness of the fork.

As necessary

- Renew worn sliding pieces (5) by removing the outer fork tines (4). Open the dual pallet handler and remove the screws (1), stops (2), and the nut (12) of the cylinder (13). Pull the slide (6, 7) out to the side. Remove the screw (20) and replace the sliding pieces (5). Install the screw (20) and move the slides (6, 7) into the clamp body (15). Install the nut (12) of the cylinder (13), the stops (2), screws (1), and fork tines (4) with screws (3).
Replace faulty cylinders (13, 16) by opening the dual pallet handler and removing the hydraulic lines from the cylinder (13, 16) with the hydraulic system depressurised. Remove the nuts (12, 17, 18, 19) and replace the cylinders (13, 16). Reinstall the nuts (19, 18, 17, 12) and hydraulic lines.

If the pin (14), shaft (9), or sliding pieces (10) need to be replaced, please contact our KAUP Customer Service.

Renew worn sliding piece (23) by completely moving the sideshift up to the stop at the left-hand side. Remove the hooks (22) and the nut (30) of the cylinder (26). Use the suspension points indicated to lift the dual pallet handler (refer to Chapter 4.1). Replace the sliding pieces (23). Ensure correct seating of the sliding pieces (23) during installation. Lower the dual pallet handler onto the lift truck fork carriage, reinstall the hooks (22) with bolts (21) and nut (30) of the cylinder (26).

Renew faulty supporting rollers (27) by removing the nut (30) of the cylinder (26). Remove the screws (21) of the hooks (22). Using suitable lifting equipment, tilt the dual pallet handler forwards off the fork carriage of the lift truck and secure this position. Remove the entire roll support and use a suitable tool to drive the fixing pins (28) out of the rocker arms (29). Replace the defective supporting rollers (27) and reinstall the fixing pins (28) into the rocker arms (29). Reinsert the entire roll support into the clamp body (15) and use the screws (21) to reinstall the hooks (22). Reinstall the nut (30) on the cylinder (26).

Renew the faulty cylinder (26) by removing the hydraulic lines from the cylinder (26) with the hydraulic system depressurised. Remove the nuts (25, 30) and replace the cylinders (26). Reinstall the nuts (30, 25) and the hydraulic lines.

If the thread bar (31) needs to be replaced, remove the nuts (32) and (33) and replace the thread bar (31). Reinstall the nuts (33) and (32).

After installing or removing a cylinder (13, 16, 26), always check the clearance between the cylinder mount and nut (12, 17, 18, 19, 25, 30) of the cylinder (13, 16, 26). Cylinders are installed with axial clearance of 1.5 to 2 mm.

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.
6.3.3 Adjustment of distance between forks in standard version

When the Double Pallet Handler is in the closed position the forks can be adjusted to the optimal width of the pallet to be used by shifting the stop (2), see 6.3.1.

6.3.4 Identification plate and caution board
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><strong>Pallet handler</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Opening and closing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ No simultaneous movement with flow divider</td>
<td>irregularities in flow divider</td>
<td>open or close both cylinders completely</td>
</tr>
<tr>
<td>☐ Movement too slow</td>
<td>Insufficient fluid flow from truck’s hydraulics</td>
<td>Increase flow rate of truck’s hydraulics</td>
</tr>
<tr>
<td><strong>Clearance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ Carriage has too much clearance</td>
<td>Slider is worn</td>
<td>Replace sliders</td>
</tr>
<tr>
<td>☐ Carriage tilts at outer limit</td>
<td>Slider is worn</td>
<td>Replace sliders</td>
</tr>
<tr>
<td>☐ Carriage rubbing against guide section</td>
<td>Slider is worn</td>
<td>Replace sliders</td>
</tr>
<tr>
<td>Fault</td>
<td>Possible cause</td>
<td>Correction</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>Oil leakage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❑ At cylinder</td>
<td>Sealing kit defective</td>
<td>Replace sealing kit</td>
</tr>
<tr>
<td></td>
<td>Screw fitting is leaking</td>
<td>Tighten / seal screw fitting</td>
</tr>
<tr>
<td></td>
<td>Piston rod scored</td>
<td>Replace piston rod and sealing kit</td>
</tr>
<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>Re-bore the throttle valve or replace it with a larger one</td>
</tr>
<tr>
<td>❑ Jerky shifting action</td>
<td>Supporting roller defective</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 defective</td>
<td>Replace supporting roller</td>
</tr>
<tr>
<td>❑ Housing scrapes on the conduit</td>
<td>Slider is worn</td>
<td>Replace sliders</td>
</tr>
<tr>
<td>❑ No cushion for backward position</td>
<td>Cushion for backward position defective</td>
<td>Replace piston rod</td>
</tr>
<tr>
<td>Oil leakage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❑ 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>
<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>
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. **Spare parts list** (not part of the Operating Manual)

12. **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>Double Pallet Handler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type:</td>
<td>T 429C, T 429-C2, T 429C-4</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**