Crane Jib

T 183 xx, T 183 Hxx,

- **T 183**  Crane Jib, mechanical swivel ± 90°
- **T 183 H**  Crane Jib, hydraulic swivel ± 45°
- **T 183 TH**  Crane Jib, mechanical swivel ± 90°, hydraulically telescopic
- **T 183 HTH**  Crane Jib, hydraulic swivel ± 45°, hydraulically telescopic
- **T 183 TM**  Crane Jib, mechanical swivel ± 90°, mechanically telescopic
- **T 183 HTM**  Crane Jib, hydraulic swivel ± 45°, mechanically telescopic
# Operating Manual

## CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introduction</td>
<td>4</td>
</tr>
<tr>
<td>1.1 Working with this manual</td>
<td>4</td>
</tr>
<tr>
<td>1.2 Warning notes and symbols</td>
<td>4</td>
</tr>
<tr>
<td>1.3 Copyright</td>
<td>4</td>
</tr>
<tr>
<td>1.4 CE-Mark</td>
<td>5</td>
</tr>
<tr>
<td>1.5 Qualified and authorised personnel</td>
<td>5</td>
</tr>
<tr>
<td>1.6 Warranty claims based on defects</td>
<td>5</td>
</tr>
<tr>
<td>1.7 Limits of applicable use</td>
<td>5</td>
</tr>
<tr>
<td>2. Safety aspects</td>
<td>6</td>
</tr>
<tr>
<td>3. Design</td>
<td>7</td>
</tr>
<tr>
<td>3.1 Model</td>
<td>7</td>
</tr>
<tr>
<td>3.1.1 T 183, T 183 H</td>
<td>7</td>
</tr>
<tr>
<td>3.1.2 T 183 TH, T 183 TM, T 183 HTH, T 183 HTM</td>
<td>8</td>
</tr>
<tr>
<td>3.2 Proper use of the equipment</td>
<td>9</td>
</tr>
<tr>
<td>3.3 Improper use</td>
<td>9</td>
</tr>
<tr>
<td>4. Installation and checking out</td>
<td>9</td>
</tr>
<tr>
<td>4.1 Installation</td>
<td>9</td>
</tr>
<tr>
<td>4.1.1 T 183, T 183 H, T 183 TH, T 183 HTH, T 183 TM, T 183 HTM</td>
<td>10</td>
</tr>
<tr>
<td>4.2 Checking out</td>
<td>11</td>
</tr>
<tr>
<td>5. Operation</td>
<td>11</td>
</tr>
<tr>
<td>5.1 General</td>
<td>11</td>
</tr>
<tr>
<td>5.2 Load handling</td>
<td>11</td>
</tr>
<tr>
<td>5.3 Driving</td>
<td>11</td>
</tr>
</tbody>
</table>
6. Maintenance and servicing

6.1 General

6.2 Significant modification

6.3 Schedule for routine maintenance and lubricants

6.3.1 T 183 xx: Mounting and bearing mechanically slewable ± 90°

6.3.2 T 183 Hxx: Mounting and bearing hydraulically slewable ± 45°

6.3.3 T 183 xx, T 183Hxx: Crane hook

6.3.4 T 183 TH, T 183 HTH

6.3.5 T 183 TM, T 183 HTM

6.3.6 Additional crane hook

6.3.7 Identification plate and caution board

7. Troubleshooting

8. Disposal

9. Transport

10. Decommissioning and storage

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

12. EC Declaration of Conformity (Summary)

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.

ℹ️ 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 Model

3.1.1 T 183, T 183 H:

The crane jib consists of a vertical part of crane (1) and a jib (2). A continuously rotatable crane hook (3) is mounted slidably by hand in the jib (2). The vertical part of crane (1) is mounted so that it can be mechanically slewed in the mounting (4) and fork carriage (5). The locking device (6) secures the crane jib in the plate (7) in its slewed position. Attachment of the crane jib is performed on the fork carriage of the lift truck by way of screwed upper hooks (8) and lower hooks (9) with intermediate element (10). A safety retaining stop (11) prevents lateral sliding down of the fork arms.

Optional: Model T183H with cylinder, hydraulic swivel.
3.1.2 T 183 TH, T 183 TM, T 183 HTH, T 183 HTM:

The crane jib consists of a vertical part of crane (1), a jib (2) and a slidable hollow section (3). A continuously rotatable crane hook (4) is mounted at the end of the hollow section (3). The hollow section (3) is slidable by hand and is secured by way of a connecting pin (5) with a pin (6). In the case of model T183 TH the hollow section (3) is hydraulically moved via a cylinder (7). The vertical part of crane (1) is mounted so that it can be mechanically slewed in the pivot bearing (8) and fork carriage (9). The locking device (10) secures the crane jib in the plate (11) in its slewed position. Attachment of the crane jib is performed on the fork carriage of the lift truck by way of screwed upper hooks (12) and lower hooks (13) with intermediate element (14). A safety retaining stop (15) prevents lateral sliding down of the fork arms.

Optional: Model T183HTM and T183HTH, with cylinder, hydraulic swivel.
3.2 **Proper use of the equipment**

The crane jib and crane hook are intended for the transport of loads by means of lifting means such as chains, cables, slings, belts and hangers.

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
- 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 T 183, T 183 H, T 183 TH, T 183 HTH, T 183 TM, T 183 HTM:

- Raise the crane jib (1) with the boom (2) at the point marked (3).
- Demount the lower hooks (6).
- Mount the attachment on the fork carriage of the lift truck (4).
- Check that the attachment is correctly seated in the centre lock (5).
- Mount the lower hooks (6), tightening the screws (7) with a torque of 190 Nm.
- Connect the hose lines (8), model T183CTH, to the hydraulic connectors on the lift truck.

Select a hook position that is as close as possible to the fork carriage. Greater distances than the standard load centre will reduce the load capacity.
4.2 Checking out

The transport of swinging loads is allowed only with the approval of the lift truck manufacturer.

It may be necessary to impose a load restriction as a function of the swing length. The lift truck manufacturer must be contacted for this purpose.

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

Use only standardized lifting mean.

Use lifting mean that is suitable for the hook size that you are using.

Make sure that the lifting mean cannot shift or detach itself.

Use corner protection for sensitive surfaces.

Check the hook’s safety latch for damage.

5.3 Driving

Oscillation of the load can be prevented by correct driving speed and manner of driving (take care when breaking and steering). Never make jerky movements!

Driving up or down slopes with hanging load is forbidden.

Care should be taken that no person is endangered by the oscillating load.

Additional support (e.g. holding ropes or poles) should be used to secure the load.
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>Lubricants approved and recommended by KAUP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Greases</td>
</tr>
<tr>
<td>Lithium soap grease NLGI Class 2</td>
</tr>
<tr>
<td>Complex soap grease NLGI Class 2</td>
</tr>
<tr>
<td>Teflon spray</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.
6.3.1 T 183 xx: Mounting and bearing mechanically slewable ± 90°

**Daily**

Check:
- Correct seating of the locking device (5) in the boring in the plate (6).
- and ensure that all fork safety retaining stops (15) are present and undamaged.

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

Check:
- Screws (7) on the upper hooks (8).
- Screws (9) on the lower hooks (10).
- Screws (11) on the intermediate plate (12).

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

**Weekly**

Grease:
- The sleeve bearing (1, 2) by means of the lubrication nipple (3) in the pivot bearing (4).
Every 200h

Check wear of:

- Interlock (5).
- Sleeve bearing (1, 2).

Replace worn pieces.

Yearly

Have the crane jib inspected at least once annually by an expert.

Renew worn sleeve bearings (1, 2) by removing the circlip (14). Lift the complete crane jib (13) upwards out of the pivot bearing (4) at the point marked for this purpose. Replace the worn or defective sleeve bearings (1 – 2). Then refit all parts in the reverse order.

6.3.2 T 183 Hxx: Mounting and bearing hydraulically slewable ± 45°
Daily

Ensure that all fork safety retaining stops (20) are present and undamaged.

After 50h / every 500h thereafter

Check:
- Screws (7) on the upper hooks (8).
- Screws (9) on the lower hooks (10).
- Screws (11) on the intermediate plates (12).
Replace loose or damaged screws. Torque the screws as specified in Chapter 6.1 General.

Weekly

Grease:
- The sleeve bearing (1, 2) by means of the lubrication nipple (3) in the pivot bearing (4).
- Bush (17) by means of the lubrication nipple (5).

Every 200h

Check wear on:
- Bolt (13, 16).
- Bush (17).
- Sleeve bearing (1, 2).
Replace worn pieces.

Yearly

Have the crane jib inspected at least once annually by an expert.

Renew any worn sleeve bearings (1, 2) by removing the circlips (19, 15) and bolt (16) of the cylinder (18). Lift the complete crane jib (6) upwards out of the pivot bearing (4) at the point marked for this purpose. Replace the worn or defective sleeve bearings (1, 2). Then refit all parts in the reverse order.

Renew any worn bolts (13) by removing the split pin (14). Replace the worn or defective bolts. Then refit all parts in the reverse order.

Renew any worn bolts (16) or bushes (17) by removing the circlip (15). Replace the worn or defective bolts or bushes. Then refit all parts in the reverse order.

Renew a defective cylinder (18) by removing the split pin (14), circlip (15) and pins (13, 16). Replace the defective cylinder. Then refit all parts in the reverse order.
6.3.3  T 183 xx, T 183Hxx: Crane hook:

**T183/183H 1-2T**  |  **T183/183H 3-10T**  |  **T183TH/183HTH**  |  **T183TM/183HTM**

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**Daily**

Check:

- The safety latch (2) of the hook (1) for damage.
- The correct seating of the complete hook (12) in the borings in the jib (8).

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

Check:

- Screws (10) on the end plate (9).

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

**Yearly**

Have the crane jib inspected at least once annually by an expert.

Service the parts of the complete hook (1) by removing the screws (10) and end plate (9), model T 183 / T 183 H (3-10T). Raise the hook and pull it forwards out of the hollow section (8). In the case of model T183 / T 183 H (1-2T) lift the complete hook (12) out of the borings in the jib (8) and tilt it over the end plate (11). Remove the pin (6) in the slotted nut (5), all models. Check the ring (4), bearing (3), bearing plate (7) and hook (1) for wear. Replace any worn parts and refit the complete hook again in the reverse order.
6.3.4 T 183 TH, T 183 HTH

Daily

Check:

🚫 The safety latch (2) of the hook (1) for damage. See chapter 6.3.3.

After 50h / every 500h thereafter

Check:

🚫 Screws (12) on the end plate 11).
🚫 Screws (15) on the bearing blocks (14).
Replace loose or damaged screws. Torque the screws as specified in Chapter 6.1 General.

Weekly

Grease:

🚫 The slide bearing (2) of the rollers (3) by means of the lubrication nipple (4).
Every 200h

Check wear on:

- Roller (3).
- Roller (13).

Replace worn pieces.

Yearly

Have the crane jib inspected at least once annually by an expert.

As necessary

Replace the worn parts of the rollers (3) in the outer hollow section (10) by removing the circlip (6) and pressing the bolt (4) out to the side. Replace the worn or defective parts (2-6). Then refit all parts in the reverse order. In the case of model T183 / HTH 1-2T replace any worn or defective parts (13-15) by removing the screws (15) from the bearing blocks (14).

Renew the defective cylinders (8) by removing the nut (7) on the end plate (11) through the opening (9a). Pull the inner hollow section (9) out of the outer hollow section (10). Replace the defective cylinder. Then refit all parts in the reverse order.

6.3.5 T 183 TM, T 183 HTM
Daily

Check:

☑ Correct seating of the connecting pin (1) and of the pin (2).

Every 200h

Check wear on:

☑ Connecting pin (1).
Replace worn pieces.

Yearly

Have the crane jib inspected at least once annually by an expert.

6.3.6 Additional crane hook

Daily

Make sure that the pin (1) and linchpin (2) are installed at the crane hook.

Check:

☑ The safety latch (3) of the hook (4) for damage.
☑ Complete hook (4) is correctly seated in the recesses (5) of the boom (6).

Every 200h

Check wear on:

☑ Connecting pin (1).
Replace worn pieces.
Yearly

Service all parts of the complete hook (4) by removing the linchpin (2) and pin (1). Remove the crane hook (4) in downward direction and service the parts as described in section 6.3.1. Replace any worn parts and refit the complete hook again in the reverse order.

6.3.7 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>
</tbody>
</table>
### 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>Crane hook</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❏ Does not rotate</td>
<td>Bearing defective</td>
<td>Replace bearing</td>
</tr>
<tr>
<td></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>❏ Jerky shifting action</td>
<td>Roller defective</td>
<td>Replace roller</td>
</tr>
<tr>
<td></td>
<td>Roller not properly lubricated</td>
<td>Lubricate roller</td>
</tr>
<tr>
<td>❏ Roller does not rotate</td>
<td>Roller defective</td>
<td>Replace roller</td>
</tr>
<tr>
<td>Clearance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>❏ Crane hook</td>
<td>Bearing defective</td>
<td>Replace bearing</td>
</tr>
<tr>
<td>❏ Roller guide</td>
<td>Sleeve bearing is worn</td>
<td>Replace sleeve bearing</td>
</tr>
<tr>
<td></td>
<td>Roller is worn</td>
<td>Replace roller</td>
</tr>
<tr>
<td></td>
<td>Bolt is worn</td>
<td>Replace bolt</td>
</tr>
<tr>
<td>❏ Slew bearing</td>
<td>Sleeve bearing is worn</td>
<td>Replace sleeve bearing</td>
</tr>
</tbody>
</table>
Fault | Possible cause | Correction
--- | --- | ---
Oil leakage | | 
- At cylinder | Screw fitting is leaking | Tighten / seal screw fitting |
- Sealing kit defective | Replace sealing kit |
- Piston rod scored | Replace piston rod and sealing kit |

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, all 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>Crane jib</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type:</td>
<td>T 183, T 183H, T 183TH, T 183HTH, T 183TM, T 183HTM</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