

# Safety instructions for swing arms

A swing arm is a central component of many lifting systems and requires special safety precautions to avoid accidents or damage. The following instructions are intended to ensure safe use and correct operation.

## 1. General safety precautions

- Pay attention to the load capacity: Never exceed the maximum load capacity of the swing arm (including the safety reserve).
- Permitted area of application: Only use the swing arm for the intended applications (e.g. lifting or conveying tasks).
- User skills: Only trained personnel may operate the swing arm.
- Working environment: Keep the work area clear of obstacles and unauthorized persons.

## 2. Before use

- Check assembly:
  - Make sure that the swing arm is correctly and securely attached to a load-bearing structure.
  - Check the tightness of screws, bolts and other fasteners.
- Visual inspection: Check the swing arm for cracks, deformation or other damage.
- Mobility: Test the swing function to make sure that the arm swings easily and without blockages.
- Check lifting device: Check the connected lifting device (e.g. cable winch or chain hoist) for proper function.

## 3. Operational safety

- Centered load: Always center the load on the lifting device to avoid off-center loading.
- No overloading: Never exceed the maximum load capacity of the swing arm or lifting device.
- Smooth movement: Perform movements slowly and smoothly to avoid swinging or jerking the load.
- Keep the load area clear: Make sure that no one is under or near the load during lifting or slewing.
- Weather conditions: Do not operate the swing arm in extreme weather conditions (e.g. strong winds or rain) that could affect stability.

#### **4. Maintenance and inspection**

- Regular inspection:
  - Regularly inspect the swing arm and lifting device for wear and damage.
  - Check that screws and bolts are tight.
- Lubrication: Lubricate moving parts such as bearings or joints regularly according to the manufacturer's instructions.
- Repairs: Do not carry out any unauthorized repairs. Have damaged parts replaced only by qualified personnel.

#### **5. Prohibited actions**

- No modifications: Do not modify the swing arm or its mountings.
- Improper use: Do not use the swing arm as a climbing frame or for any other unintended purpose.
- Permanent overloading: Do not keep the swing arm under maximum load for long periods.
- Blocking the swing arm: Avoid blocking or manipulating the swing movement with unauthorized aids.

#### **6. Emergency measures**

- Defect during operation: Stop operation immediately if unusual noises, movement disorders or other problems occur.
- Emergency release: Use the emergency release device of the lifting device (if available) only as instructed.
- Report hazards: In case of a defect, immediately inform the responsible safety or maintenance department.

Following these safety instructions is essential to avoid accidents and to ensure a long service life for the swing arm. In addition, read the manufacturer's operating and safety instructions and the applicable regulations (e.g. DGUV rules).