

Operating Manual

Tilting and swarf container type GU / GU-H and SGU / SGU-H
Mini-tilting container and mini-swarf container type MGU and SMGU
Tilting and swarf container for tugger train systems type GU-RZ and SGU-RZ
Version 6

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Translation of original operating manual



Forklift truck attachments

Tilting container type GU / GU-H
Mini-tilting container type MGU
Swarf tilting container type SGU / SGU-H
Mini-swarf tilting container type SMGU
Tilting container for tugger train systems type GU-RZ
Swarf-tilting container for tugger train systems type SGU-RZ

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Manufacturer

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Designation of the machine

Tilting container



Read / observe the
operating instructions

This operating manual familiarises the owner/operator with

- the working method and operation
- safe and professional operation of the machine
- early detection and prevention of hazards and risks
- the safety instructions and the maintenance.

This operating manual does not replace the legal obligations of the owner with regard to health & safety at work.

The owner and the user are liable for the cost of any damage or injuries caused by a failure to observe the information in this operating manual.

This operating manual must be kept readily to hand for the operating personnel on the machine to enable them to operate the machine safely and to handle it better.

**Always keep the operating manual close to
the tilting container!
The operating manual must always be to
hand!**

If the machine is sold, the operating manual must be passed on with it.

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Description

The tilting container is used to collect loose materials in a tray. It is designed for use with an industrial truck (forklift truck).

Intended use

The tilting container is used to collect loose materials in a tray. It is designed for use with an industrial truck. With the corresponding additional equipment (see Accessories), the tilting container can also be lifted using cranes, or can be moved with suitable towing equipment.

If the tilting container is equipped with optional crane eyes, it can then be picked up and transported using appropriate lifting equipment.

As a forklift attachment, the tilting container can be picked up and transported on the forks (tines) of an industrial truck, and can then be tipped up at an appropriate location.





Warnings

1. It is prohibited to lift or move a tilting container with any lifting gear that has not been approved. This would pose a risk of damage and potentially life-threatening injuries to people.
2. The transporting of people is prohibited. This would constitute a danger to life.
3. The use of a tilting container as a 'shovel' when in a tipped position is prohibited. This would pose the risk of damage to equipment, and possibly also injury to people.

Commissioning

The tilting container is supplied in a fully assembled condition and can enter service without any special commissioning process.

Type plate (example)

| | | | |
|---|----------------------|---|----------------------|
|  | |  | |
| Typ | <input type="text"/> | ESP | <input type="text"/> |
| Herstell-Nr. | <input type="text"/> | LSP | <input type="text"/> |
| Baujahr | <input type="text"/> | Vorbaumaß | <input type="text"/> |
| Inhalt | <input type="text"/> | stapelbar | <input type="text"/> |
| Eigengewicht | <input type="text"/> | hydr. Druck min. | <input type="text"/> |
| Tragfähigkeit | <input type="text"/> | max. | <input type="text"/> |
| Achtung: Tragfähigkeit der Kombination von Flurförderzeug und Anbaugerät einhalten! | | | |

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| | |
|--|---|
| Behaviour in the event of faults | Check the tilting container for damage, specifically mechanical damage, and if necessary notify the supervisor. |
| Information on noise pollution | <p>The tilting container does not cause noise, nor does it produce noise pollution</p> <p>Nevertheless, noise may occur while the tilting container is being loaded/filled, and when being tipped. The level of noise depends on the kind of material involved. Where necessary, ear defenders should be worn as PPE.</p> |
| Spare parts | <p>All details you need to obtain spare parts can be found in the spare parts list. We need the following details to be able to process your order rapidly:</p> <ul style="list-style-type: none">• our item number for each spare part• our item designation for each spare part• the order quantity• designation of the container, manufacturer's number and year of manufacture |
| Maintenance Repairs | <p>Repairs to the forklift attachment must always be carried out by the manufacturer or by agents authorised by the manufacturer.</p> <p>Always use genuine spare parts.</p> |
| Inspection | Forklift attachments must be inspected by a qualified person at intervals defined by the owner in accordance with his/her risk assessment (German industrial safety regulations (BetrSich) sections 10 and 11). All inspections must be documented. If faults are identified on the spreader attachment, it must be taken out of operation immediately. |
| Inspection before first commissioning | Before using for the first time, the owner must check the forklift attachment to ensure that it complies with the version that was ordered and that the full scope of delivery has been supplied. A visual inspection must be carried out by a qualified person as part of commissioning. |
| Regular inspections | The user must check the forklift attachment for visible defects before each use. The owner must ensure that the forklift attachment is inspected regularly by a qualified person in accordance with the inspection intervals defined in his/her risk assessment, but at least one per year. |
| Extraordinary inspections | If an unusual incident occurs, a qualified person must carry out a special visual inspection of the forklift attachment outside the defined inspection intervals. |
| Inspection criteria | <p>Wear and proper function of the container</p> <p>Check for persistent deformations and corrosion that would impair functions or the loading capacity</p> <p>Check that the safety chain is present and complete</p> |

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Important information

The way in which the product is constructed and all provisions (standards, etc.) cited in the operating instructions refer to directives that are valid in Germany.

The product may only be used in other countries in accordance with the applicable directives, provisions and laws in the country of use.

Residual risks

Hazard to people and system caused by moving or lifting the tilting container, and by activating the tipping process

Only ever move the tilting container under direct visual supervision, or with a banksman. Observe the speeds of the industrial truck.

ONLY initiate the tipping operation using the pulling device provided, after first checking to ensure that no-one is in the tipping area.



Crushing

When lifting the tilting container, the control panel must be manned. Observe the 'industrial truck' safety instructions.

Lingering under a raised tilting container is FORBIDDEN. Observe the 'industrial truck' safety instructions.



Working under loads

It is prohibited to stand behind a reversing vehicle. Whenever possible, the vehicle should be guided by a banksman.

Hazards from crushing, severing when tipping the material holder, when resetting the container with machine components and at the release / holding mechanism.

It is prohibited to stand in the danger area during the tipping process. Maintain a safe distance.

Burns, chilblains and other injuries caused by contact with objects or materials at very high or very low temperatures

Always wear personal protective equipment.

Danger of burns caused by hot materials

Observe the cooling time and, if necessary, wear PPE.

Creation of sparks, a combustion hazard, caused by mechanical movements

Never operate the tilting container in EX-designated areas.

Hazard due to unsuitable local lighting

Never operate the tilting container in poor lighting conditions or with insufficient visibility (fog).

Related to use with a industrial truck

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Hazard from contact with or the inhalation of dangerous gases and vapours, with the risk of asphyxiation and poisoning

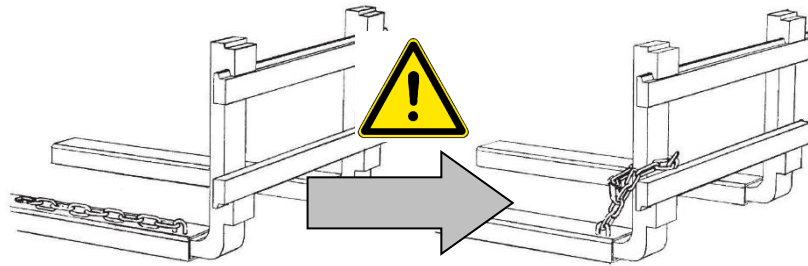
Various bodily injuries caused by being driven over

Breakage during operation

Regular inspection of guards and locking mechanisms, carried out at least once a year.

Moving or slipping of the tilting container on the forks of an industrial truck, and toppling over of the industrial truck when picking up a tilting container

Observe the safety instruction about the safety chain!



Observe the permitted load-bearing capacity of the industrial truck, and specifically of the ground surface and/or its gradient. Observe the 'industrial truck' safety instructions.

Load-bearing capacity

The stipulated loading capacity (see type plate) is the maximum load, and must not be exceeded. Do not exceed the combined loading capacity of the industrial truck and attachment!

Personal protective equipment (PPE)

Personal protective equipment is required to operate the tilting container. Nonetheless, when carrying out cleaning work, appropriate PPE should be worn. Observe the safety instructions for the cleaning equipment!

Stability during operation

Set down the tilting container only on level ground. There is a risk of it toppling over on sloped surfaces.

Disassembly, decommissioning and disposal

There are no particular requirements governing disassembly, decommissioning and disposal.

Safety instructions for storage

This tilting container cannot be stacked!

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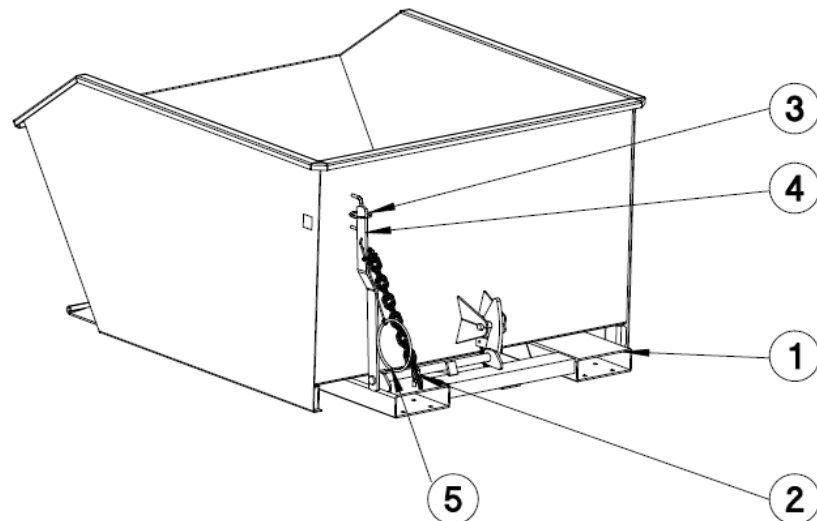
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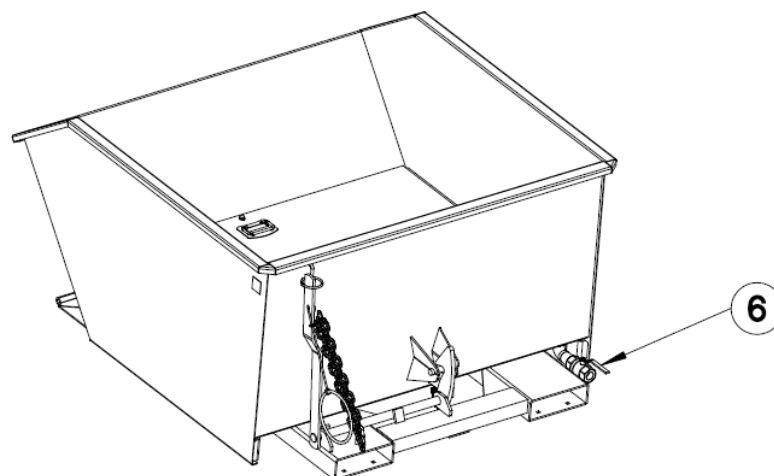
Layout

| Item | Name |
|------|----------------------------|
| 1 | Fork pocket |
| 2 | Safety chain |
| 3 | Retainer ring |
| 4 | Release lever |
| 5 | Operating cable |
| 6 | Drain cock |
| 7 | Lid catch |
| 8 | Castor with locking device |
| 9 | Crane eye |

Tilting container type GU / mini-tilting container type MGU



Swarf container type SGU / mini-swarf container type SMGU

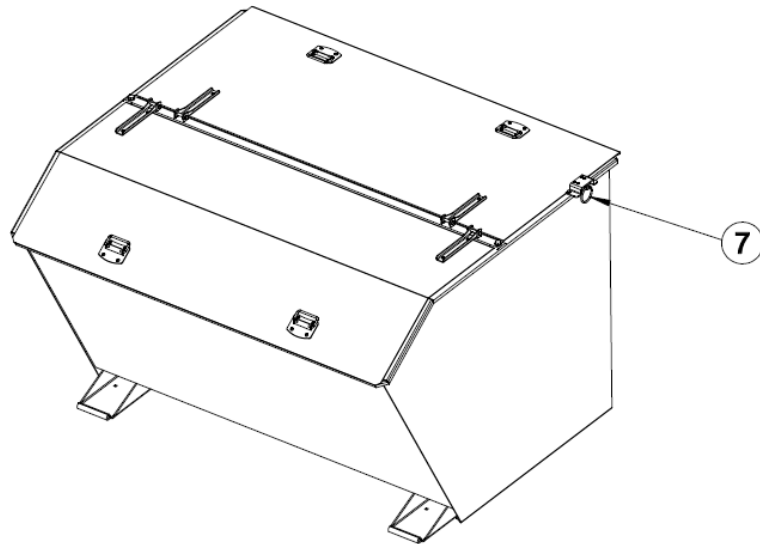


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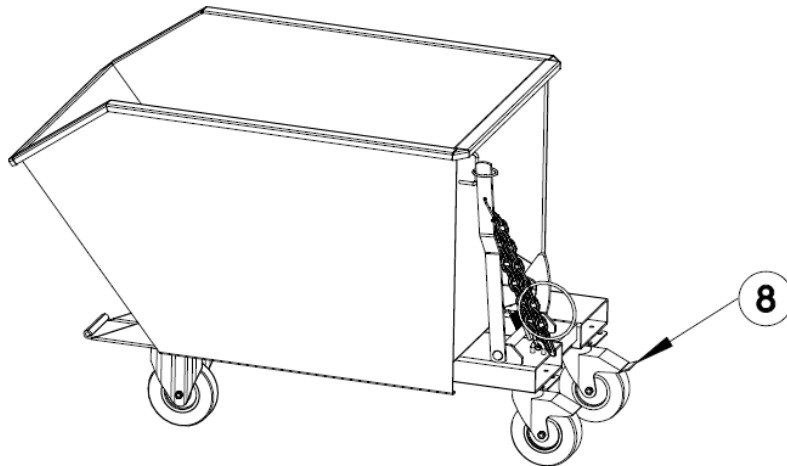
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Tilting container with lid



When closing the lid there is a risk of shearing and crushing; do not hold any parts of the body between the container and its lid.

Tilting container with wheels



If the container is equipped with wheels, it may only be moved by hand. Before picking up with a forklift, apply the parking brake to the castor (item 8).

Operation and control

1. With swarf containers: Before transport, open the drain cock (item 6) early and allow the liquid to separate into a container. Close the drain cock again (item 6) before starting transport.
2. In the case of containers with wheels: Activate the parking brake (item 8).

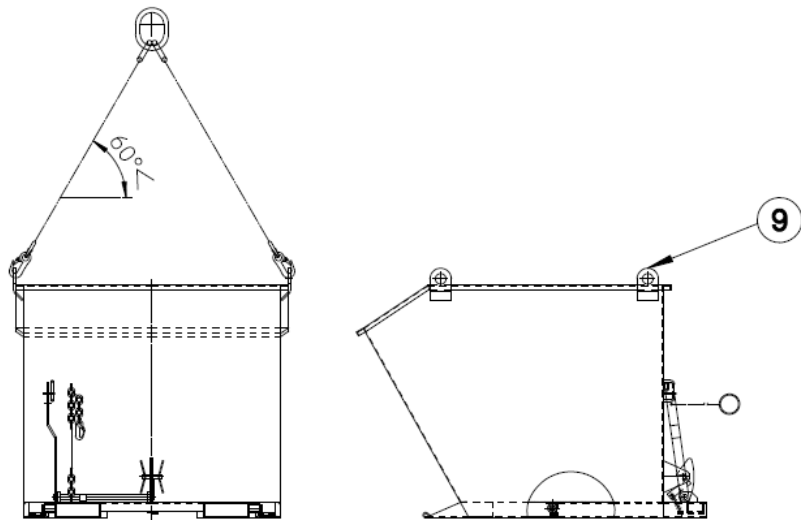
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3. The forklift's lifting mast must always be vertical.
4. Adjust the forks (tines) on the forklift to the distance between the forklift pockets. Insert the forks all the way into the fork pockets (item 1) provided on the container.
5. The safety chain (item 2) of the container must be placed around the fork carrier or the back of the forks, pulled tight and secured by hooking the carabiner into a link in the chain.
6. On containers with lids, fold up the front section of the lid and secure with the lid catch (item 7).
7. Lift the container with the lifting frame on the forklift and drive it to the site of use.
8. Immediately before emptying, remove the retainer ring (item 3) from the release lever (item 4), and the operating cable (item 5) from the hook and uncoil.
9. Lift the container up to the desired height.
10. Pull on the operating cable (item 5). This triggers the release lever (item 4) and the container empties itself automatically.
11. Lower the lifting frame until the container engages in its original position.
12. Place the retainer ring (item 3) over the release lever (item 4). Coil up the operating cable (item 5) and hang it on the hook.
13. Lift the container, drive back to the storage place and lower the lifting frame. Remove the carabiner from the safety chain (item 2), remove from the forklift and hook back into a link in the chain. Pull the forks out of the fork pockets (item 1) by reversing the forklift.

Tilting container with crane eyes



Operation and control

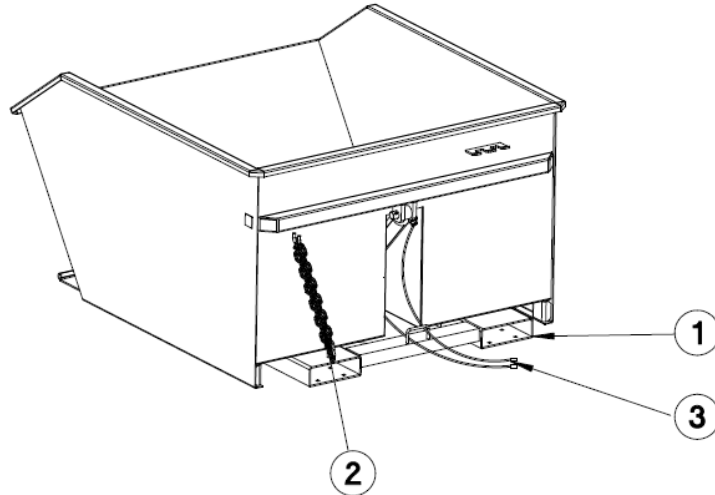
1. Only use tested and technically faultless lifting tackle. Attach the lifting tackle with jaw safeguard to the crane eyes (item 9).
2. Lift the container with the crane, drive it to the site of use and lower it again.
3. Open the jaw safeguard on the lifting tackle. Remove lifting tackle from the crane eyes (item 9).

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Tilting container type GU-H – Swarf container type SGU-H



Operation and control

1. For the swarf container, separate the liquid into a barrel via the drain cock; not necessary with a tilting container.
2. The forklift's lifting mast must always be vertical.
3. Adjust the forks (tines) on the forklift to the distance between the forklift pockets. Insert the forks all the way into the fork pockets (item 1) provided on the container.
4. The safety chain (item 2) of the container must be placed around the fork carrier or the back of the forks, pulled tight and secured by hooking the carabiner into a link in the chain.
5. Connect the tilting container's hydraulic hoses (item 3) to the forklift's hydraulic system.
6. On containers with lids, fold up the front section of the lid and secure with the lid catch (item 7).
7. Lift the container with the lifting frame on the forklift and drive it to the site of use.
8. Lift the container up to the desired height.
9. Start the tipping procedure by actuating the control unit on the forklift.
10. Use the control unit to return the tipped container to its initial position.
11. Drive the container back to the storage place and lower the lifting frame.
12. Remove the carabiner from the safety chain (item 2), remove from the forklift and hook back into a link in the chain.
13. Disconnect the tilting container's hydraulic hoses (item 3) from the forklift's hydraulic system.
14. Pull the forks out of the fork pockets (item 1) by reversing the forklift.

Attention! The maximum hydraulic pressure of 250 bar must not be exceeded.

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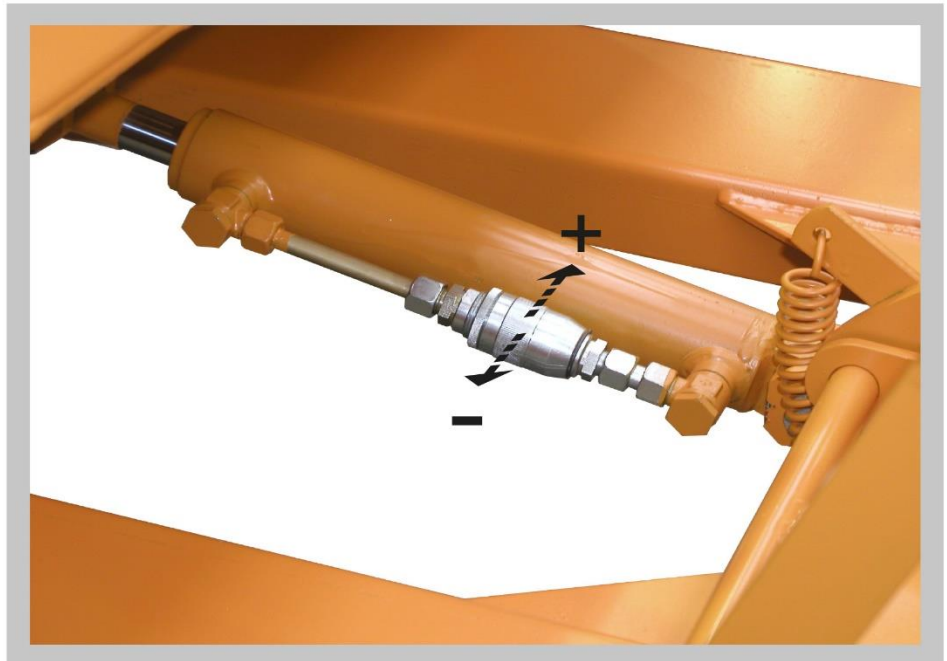
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Dumping brake auxiliary equipment

Intended use The dumping brake is an adjustable traction damper that has been developed exclusively for use on tilting containers and tipping equipment.

First commissioning Before using the dumping brake for the first time, test the function and tilting speed (without load): The speed can be regulated with the adjustable throttle.

“+”: Increase tilting speed
“-”: Reduce tilting speed



Servicing and maintenance The operator must ensure that repair work to the dumping brake is only performed by persons with the appropriate level of knowledge and skills.