

Assembly and Operating Manual

GEDA[®] **STAR 200 STANDARD** **STAR 250 COMFORT**

Swivel Arm Hoist for loads

Lifting capacity: 200 kg
 250 kg

Year of construction:

Serial number:



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Table of Contents:

Chapter	Page
1 PREFACE	4
2 DATA	5
3 INTENDED USE AND AREA OF APPLICATION	6
3.1 RESIDUAL RISKS	6
4 SAFETY	7
4.1 EXPLANATIONS OF SYMBOLS AND NOTES.....	7
4.1.1 <i>Work safety symbol</i>	7
4.1.2 <i>Attention note</i>	7
4.1.3 <i>Note</i>	7
4.2 GENERAL SAFETY	7
4.3 OPERATING SAFETY	8
4.3.1 <i>Inspection procedures</i>	9
4.3.2 <i>Safety notes for assembly, operation and transport</i>	9
4.3.3 <i>Safety instructions for maintenance</i>	10
4.4 PROMOTING USE OF OPERATING MANUALS	10
5 TECHNICAL DATA	11
6 DESCRIPTION	12
6.1 COMPONENTS AND OPERATING ELEMENTS	13
6.1.1 <i>GEDA STAR 200 STANDARD – 200 kg lifting capacity</i>	13
6.1.2 <i>GEDA STAR 250 COMFORT 250kg lifting capacity</i>	13
6.1.3 <i>Manual control</i>	14
7 TRANSPORT	14
8 REQUIREMENTS FOR THE SITE OF INSTALLATION	14
8.1 ELECTRICAL CONNECTION (ON SITE)	14
9 INSTALLATION	15
9.1 SAFETY NOTES	15
9.2 SAFEGUARDING THE LOADING AND UNLOADING POINTS	16
9.3 FASTENING OPTIONS.....	16
9.3.1 <i>Free-standing tripod frame</i>	17
9.3.2 <i>Scaffold fastening</i>	18
9.3.3 <i>Storey support with swivel joint</i>	19
10 LOAD SUSPENSION DEVICES	20
10.1 BUCKET SUPPORT FOR 2 BUCKETS	20
10.2 BUCKET SUPPORT FOR 4 BUCKETS	20
10.3 BUCKET HOIST FOR 4 BUCKETS.....	21
10.4 35 LITRE TILTING BUCKET	21
10.5 65 LITRE TILTING BUCKET	21
10.6 65 LITRE MORTAR SILO.....	22
10.7 CHAIN SUSPENSION FOR WHEEL BARROWS.....	22
10.8 WIRE MESH CAGE WITH WOODEN PALETTE	23
10.9 HOISTING CAGE WITH WOODEN PALETTE	23
10.10 SLAB GRAB	24

Chapter	Page
11 OPERATION.....	25
11.1 SAFETY NOTES	25
11.2 IMPERMISSIBLE MODES OF OPERATION.....	25
11.3 SAFETY INSPECTION	26
11.4 OPERATING THE SWIVEL ARM HOIST.....	26
11.5 INTERRUPTION/END OF WORK.....	26
11.6 SHUTTING DOWN IN AN EMERGENCY	26
12 DISMANTLING (DISASSEMBLY).....	27
13 MALFUNCTIONS-CAUSE-REMEDY.....	27
14 MAINTENANCE	28
14.1 CHECK BEFORE EACH USE.....	28
14.2 WEEKLY INSPECTION/MAINTENANCE	28
14.3 QUARTERLY INSPECTION/MAINTENANCE.....	28
14.4 EVERY 3000 OPERATING HOURS	29
14.5 CHANGING THE ROPE	29
14.5.1 <i>Changing the rope on the cable drum</i>	29
14.5.2 <i>Changing the rope on rope weight</i>	29
15 MAINTENANCE	30
16 DISPOSING OF THE SWIVEL ARM HOIST.....	31
17 WARRANTY	31
COPY OF THE EC-DECLARATION OF CONFORMITY	32
18 APPENDIX FOR ENTERING REOCCURRING INSPECTIONS	33
LIST OF ILLUSTRATIONS	
Fig. 1 Type plates	5
Fig. 2 EMERGENCY STOP button.....	8
Fig. 3 GEDA STAR 200 STANDARD.....	13
Fig. 4 GEDA Star 250 COMFORT.....	13
Fig. 5 Manual control.....	14
Fig. 6 Safeguarding loading and unloading points	16
Fig. 7 Attach swivel arm.....	16
Fig. 8 Free-standing tripod frame	17
Fig. 9 Position the tripod frame.....	17
Fig. 10 Scaffold fastening	18
Fig. 11 Mount the scaffold fastening.....	18
Fig. 12 Storey support	19
Fig. 13 Mount storey support.....	19
Fig. 14 Bucket support for 2 buckets	20
Fig. 15 Bucket support for 4 buckets	20
Fig. 16 Bucket hoist for 4 buckets	21
Fig. 17 35 litre tilting bucket.....	21
Fig. 18 65 litre tilting bucket.....	21
Fig. 19 65 litre mortar silo	22
Fig. 20 Chain suspension for wheelbarrows	22
Fig. 21 Wire mesh cage with wooden palette.....	23
Fig. 22 Hoisting cage with wooden palette	23
Fig. 23 Slab grab	24
Fig. 24 Operating/control	26
Fig. 25 Rope weight.....	29

1 Preface

Who should read this assembly and operating manual?

- Assembly and operating personnel working on the machine
- Maintenance personnel for the machine (cleaning/servicing)

What does this assembly and operating manual contain?

In this assembly and operating manual you will find instructions regarding

- Intended use
- Residual risks
- Safety
- Installation
- Operation
- Troubleshooting
- Customer service

This assembly and operating manual communicates important information that is a prerequisite for working safely and economically with the machine. The assumption is made that the machine is equipped with all possible options.

What you should do straightaway!

Read this assembly and operating manual carefully before assembly and commissioning, and observe all notes especially the safety instructions.

What does this assembly and operating manual not contain?

This assembly and operating manual is not a repair manual!

You will not find documents about repair work in this assembly and operating manual.

What you should consider when re-selling the machine?

If you sell the machine, pass on these assembly and operating instructions with the annual inspection entries and spare parts list to the purchaser.

2 Data

These operating instructions apply for the following types:
GEDA-STAR 200 STANDARD and GEDA-STAR 250 COMFORT

GEDA®		CE
Dechentreiter GmbH & Co. KG D-86663 Asbach - Bäumenheim		
GEDA® STAR 200 STANDARD		
Baujahr	Tragfähigkeit 200 kg	
Fabr.Nr.		
Mindestbruchkraft 17 kN	Seil Ø 5 mm	
Seillänge max. 51 m	$C_B = 50\mu F$	
Hubgeschw. max. 22m/min	I = 6,8 A	
P = 1,0kW	230V 50Hz	Drehz. 1350 ¹ /min

GEDA-STAR 200 STANDARD

GEDA®		CE
Dechentreiter GmbH & Co. KG D-86663 Asbach - Bäumenheim		
GEDA® STAR 250 COMFORT		
Baujahr	Tragfähigkeit max. 250 kg	
Fabr.Nr.		
Mindestbruchkraft 17 kN	Seil Ø 5 mm	
Seillänge max. 51 m		
Hubgeschw. min / max. 22 / 28 m/min	8,0 A	
P = 1,1 kW	230V 50Hz	Drehz. 2800 ¹ /min
$C_A = 60\mu F$		$C_B = 25\mu F$

GEDA-STAR 250 COMFORT

Fig. 1 Type plates

Manufacturer address:



Mertinger Straße 60
D-86663 Asbach-Bäumenheim
Phone +49 (0)9 06 / 98 09-0
Fax +49 (0)9 06 / 98 09-50
Email: info@geda.de
WWW: <http://www.geda.de>

CE labelling

The machine has the CE symbol.

Country of origin: Made in Germany

3 Intended use and area of application



The swivel arm hoist **GEDA-STAR 200 STANDARD** and **GEDA-STAR 250 COMFORT** is a temporarily-constructed lift system that is determined exclusively for conveying goods and construction material during construction work. Any other use going beyond this, such as e.g. transporting persons, is not considered intended use. The manufacturer/supplier is not liable for any damage resulting from this. The user bears sole responsibility for this risk.

The following belongs to intended use

- that the assembly, operation and maintenance provisions (assembly and operating manual) provided by the manufacturer are complied with.
- that the foreseeable misconduct of other persons is taken into consideration.
- that national guidelines are observed.

Consequences of non-intended use/application

of the swivel arm hoists **GEDA-STAR 200 STANDARD** and **GEDA-STAR 250 COMFORT**:

- Danger for life and limb of the user or a third party.
- Damage to swivel arm hoist and other tangible assets.

Requirements of assembly personnel

The machine may only be assembled, operated and maintained by expert persons (qualified personnel) who can guarantee to handle it appropriately based on their training or knowledge and practical experience, and who are aware of the risks. These persons must be specified for assembly, dismantling and maintenance service by the employer.

Operating personnel

The machine may only be operated by persons who can guarantee to handle it appropriately based on their training or knowledge and practical experience. These persons must

- be specified by the customer to operate the machine
- be correspondingly instructed and informed about the risks
- be acquainted with the assembly and operating manual
- observe national regulations.

3.1 Residual risks



There are residual risks in spite of all the precautions met.

Residual risks are potential and not obvious risks, such as e.g.:

- Injuries from uncoordinated work
- Danger from malfunction in the control system
- Danger from working on the electrical system
- Danger from damage to the load suspension device
- Danger from an inappropriately secured load falling down
- Danger from high wind speeds (> 70 km/h).

4 Safety

4.1 Explanations of symbols and notes

4.1.1 Work safety symbol



You will find this symbol next to all safety instructions where there is a risk for life and limb of persons. Observe these instructions and conduct yourself with care!

4.1.2 Attention note

ATTENTION Is found at points where special information and/or rules and prohibitions regarding damage prevention are given to prevent damage to the equipment.

4.1.3 Note

NOTE Is found at points where information is given about using the machine economically or instructions are given regarding the correct working procedure.

4.2 General safety

The "Swivel arm hoists GEDA-STAR 200 STANDARD" and "GEDA-STAR 250 COMFORT", subsequently called swivel arm hoist, are constructed according to the status of technology and are safe to operate. However, due to its work processes the swivel arm hoist has parts and points that cannot be protected without impairing the function and operating capacity of the unit. For this reason, good personal safety practice is required to protect personnel and the swivel arm hoist. Risks can arise from this swivel arm hoist if it is used incorrectly by untrained personnel or for non-intended purposes.

- Before transporting, assembling, commissioning, dismantling and maintenance, read and observe exactly the swivel arm hoist assembly and operating manuals and safety notes!

Read and understand the assembly and operating manual first; during work is too late!

- Keep the operating manual accessible and in close proximity to the swivel arm hoist.
- The swivel arm hoist may only be equipped and operated by trained and instructed qualified persons.
- The generally valid, legal and other binding provisions for accident prevention and environmental protection in the respective country in which the swivel arm hoist is being operated are considered a supplement to the assembly and operating manual (e.g. wearing personal protective gear such as hard hat, safety shoes, etc.)
- Observe attached notices and warning signs.
- Conveying persons is forbidden!
- Entering the load suspension device is forbidden!
- Find a doctor immediately if there are any injuries or accidents.

Consequences of not complying with safety instructions

Non-compliance with safety instructions can result in danger both for persons as well as for the environment and the swivel arm hoist. Non-compliance can lead to a loss of any compensation claims.

4.3 Operating safety

- The swivel arm hoist must be set up and dismantled according to this operating manual and under supervision by expert personnel specified by the employer.
- Set up and secure the swivel arm hoist so it is stable.
- Observe swivel arm hoist lifting capacity:
- Only use the swivel arm hoist in technically fault-free condition and in a safety and risk conscious manner, while observing the operating manual.
- Keep the hanging load under constant observation from the operating position.



Do not stand or work beneath the hanging load!

- Faults which could impair safety must be remedied as soon as possible. If there are any changes to the swivel arm hoist which affect its safety or operating behaviour, shut down the swivel arm hoist immediately and report the malfunction to the company management or their authorized representative.
- Do not carry out any changes, mount parts on or make conversions to the swivel arm hoist.
- Do not start the swivel arm hoist if persons could be endangered by the swivel arm hoist, the load suspension device or the load. Cordon off the swivel arm hoist's danger zone and attach warning notices (Caution Construction Lift).
- Do not carry out any changes, mount parts on or make conversions to the machine. This also applies to installing and adjusting safety features, such as e.g. limit switches.
- Do not change, remove, override or bypass safety devices.
- Immediately renew damaged and/or removed notices and warning signs as well as safety labels.
- In situations that present a risk for the operating personnel or the swivel arm hoist, the swivel arm hoist can be shutdown by pressing the EMERGENCY STOP button (1) on the manual control.
- Stop and run the swivel arm hoist down if wind speeds are >72 km/h. (Wind force 7-8, wind moves trees and impedes pedestrians!)



Fig. 2 EMERGENCY STOP button

4.3.1 Inspection procedures

GEDA STAR is in compliance with the EC machinery directive 2006/42/EC. A copy of the conformity declaration is reproduced in this operating manual.

Tests after each installation → see chapter 14.1

The following tests have already been carried out at the factory:

- Dynamic test with 1.1 x payload.
- Electrical tests according to EN 60204
- Function tests.

Recurrent inspections:

- Inspections before commissioning, reoccurring inspections and intermediate inspections are to be carried out according to national guidelines.

NOTE

GEDA recommends that you carry out recurring inspections on an annual basis. In case of increased use (e.g. multi-shift operation), carry out inspections at shorter intervals.

- The results of the reoccurring inspection can be recorded in writing in the appendix.

4.3.2 Safety notes for assembly, operation and transport

- Before starting work at the place of utilisation, acquaint yourself with the working environment, e.g. obstacles in the work and traffic area, ground load bearing capacity and necessary safeguarding of the construction site from public transport.
- Only load and transport equipment that has been carefully dismantled, packed and tied securely.
- Always secure the machine against unauthorized use (de-energize)! Do not leave any operating parts lying around loose at the end of work or during breaks; remove and secure them under lock and key.
- Position the load carefully on the load platform; material that tends to slip or is higher than the platform or could fall must be secured (think about sudden winds).
- Never leave the swivel arm hoist loaded. - Unload first.
- Do not stand or work beneath the load platform!
- Do not place objects under the load platform.
- Evenly position loads on load suspension device, observe max. bearing capacity.
- Projecting loads are not allowed.
- Check for externally recognisable damage, noises and defects. Immediately report any changes or malfunctions determined to the company management or its authorized representatives. If necessary, shutdown and secure machine immediately.
- Do not enter the load suspension device!

4.3.3 Safety instructions for maintenance

- Remove mains plug before any maintenance work.
- Only allow servicing and repair work to be carried out by authorized and qualified personnel. In this case, pay attention e.g. also to the special risks present during work on electrical systems.
- Professionally re-attach all dismantled safety devices after maintenance work.
- Independent conversions or changes to the swivel arm hoist impair safety and are not permitted.
- Spare parts must correspond to the technical requirements of the manufacturer. Recommendation: Only use original spare parts.

4.4 Promoting use of operating manuals

Operating manuals are rules that the employer puts together for safe operational procedures. This refers to binding instructions that the employer issues within the context of his management rights. Employees are obliged by accident prevention guidelines to follow these instructions.

The general obligation of the employer to create operating manuals and make them public must be derived from the accident prevention guideline "General Instructions". According to this guideline, the employer has to fulfil the instructions for preventing work-related accidents and must instruct the insured party about risks occurring during their work and the measures for averting said risks. These requirements can be fulfilled with the aid of operating manuals.

This operating manual is to supplement national guidelines on accident prevention and environmental protection! e.g.:

EN 60204-1 and EC directive 89/655/EEC regarding basic instructions for safety and health protection when work equipment is being used by employees during work.

The following notes must be given to the employee:

- The risks that arise from working with the load suspension devices used and the necessary protective measures and codes of conduct including instructions in the case of danger and first aid instructions
 - Type and scope of regular inspections for a safe working environment
 - Maintenance
 - Remedying operational faults
 - Environmental protection
 - Safe handling of electrical equipment.
-
- The user must ensure cleanliness and clarity at the place where the swivel arm hoist is set up by using instructions and checks.
 - The responsibilities during setting up and removal (assembly), as well as during operating and maintenance, must be clearly regulated by the user and adhered to by all persons so that no unclear competencies occur with regard to safety.
 - The user must be obliged to operate the swivel arm hoist only in fault-free condition. He/she is obliged to report immediately to the superior any changes occurring to the swivel arm hoist that affect safety.
 - Observe attached notices and warning signs.
 - The user must make sure that no unauthorized persons are located on or near the swivel arm hoist.

5 Technical data

GEDA® STAR 200 STANDARD

- Lifting capacity:	200 kg
- Actuator output:	1.0 kW / 230 V/50 Hz
- Nominal current:	5 Amp.
- Speed:	1400 l/min.
- Duty cycle (DC):	60 %
- Lifting speed:	22 m/min.
- Protective system:	IP 54
- Rope:	Wire rope 5 mm FE-zn k -1770 [zS (left)] EN 12385-4
Minimum/calculated breaking force:	14/18 kN
- Rope uptake capacity of the drum max.:	90 m
- Traction rope for lifting height:	25 (50)
- Swivelling frame (swivel radius):	0.92 m
- Weights:	
- Weight of winch	39 kg
- Weight (unit with pivot arm and 26 m rope)	53 kg
- Control system:	24 V, Emergency Stop, up, down, 2 m cable (securely wired)
- Packaged dimensions of swivel arm hoist L x W x H	63 x 63 x 45
- Noise emission values (The measuring uncertainty constant is 4 dB (A))	$L_{PA} < 85$ dB (A)

GEDA® STAR 250 COMFORT

- Lifting capacity:	250 kg
- Actuator output:	1.1 kW / 230 V/50 Hz
- Nominal current:	7A
- Speed:	2800 l/min.
- Duty cycle (DC):	60 %
- Lifting speed:	28 m/min.
- Protective system:	IP 54
- Rope:	Wire rope 5 mm FE-zn k -1770 [zS (left)] EN 12385-4
Minimum/calculated breaking force:	14/18 kN
- Rope uptake capacity of the drum max.:	51 m
- Traction rope for lifting height:	25 (50)
- Swivelling frame (swivel radius):	0.80 m
- Weights:	
- Weight of winch	33 kg
- Weight (unit with pivot arm and 26 m rope)	47 kg
- Control system:	24 V, Emergency Stop, up, down, 2 m cable (pluggable)
- Packaged dimensions of swivel arm hoist L x W x H	85 x 58 x 27
- Noise emission values (The measuring uncertainty constant is 4 dB (A))	$L_{PA} < 85$ dB (A)

Fastening device

(can be used for GEDA-STAR 200 STANDARD and for GEDA-STAR 250 COMFORT)

- | | |
|---|-------|
| - Scaffold fastening for 1 1/2" pipe scaffolds | 16 kg |
| - Storey supports extendable from 230-325 cm | 60 kg |
| - Free-standing tripod frame with ballast container | 96 kg |

Load suspension devices

(can be used for GEDA-STAR 200 STANDARD and for GEDA-STAR 250 COMFORT)

Bucket carrier for 2 buckets	4.4 kg
Bucket carrier for 4 buckets	9.0 kg
Bucket hoist for 4 buckets	4.0 kg
35 litre tilting bucket	9.5 kg
65 litre tilting bucket	16 kg
65 litre mortar silo	23 kg
Wire mesh cage 62 x 32 x 50 cm with wooden palette	21 kg
Hoisting cage 92 x 57 x 44 cm with wooden palette	38 kg
Chain suspension for wheel barrows	4.0 kg
Slab grab	24 kg

Accessories

(can be used for GEDA-STAR 200 STANDARD and for GEDA-STAR 250 COMFORT)

Small main cabinet on site	8 kg
Cable drum 40 m, 3 x 2.5 mm ²	8 kg
"Simple" loading point protection rails	29 kg

(can be used for GEDA-STAR 250 COMFORT)

Manual control with EMERGENCY STOP button and 30 m cable	8 kg
Manual control with EMERGENCY STOP button and 50 m cable	12 kg

6 Description

GEDA-STAR 200 STANDARD and GEDA-STAR 250 COMFORT

- Ideal conveyor device for use in construction.
- Light-weight swivel arm hoist.
- The GEDA-STAR 250 COMFORT with robust aluminium housing.
- Versatile options for use thanks to different fastening devices
(can be used for GEDA-STAR 200 STANDARD and for GEDA-STAR 250 COMFORT)
- Large selection of load suspension devices

6.1 Components and operating elements

6.1.1 GEDA STAR 200 STANDARD – 200 kg lifting capacity

- 1 = GEDA-STAR 200 STANDARD
- 2 = cable drum
- 3 = limit switch
- 4 = switch box
- 5 = mains cable
- 6 = safety catch
- 7 = load hook
- 8 = swivelling frame

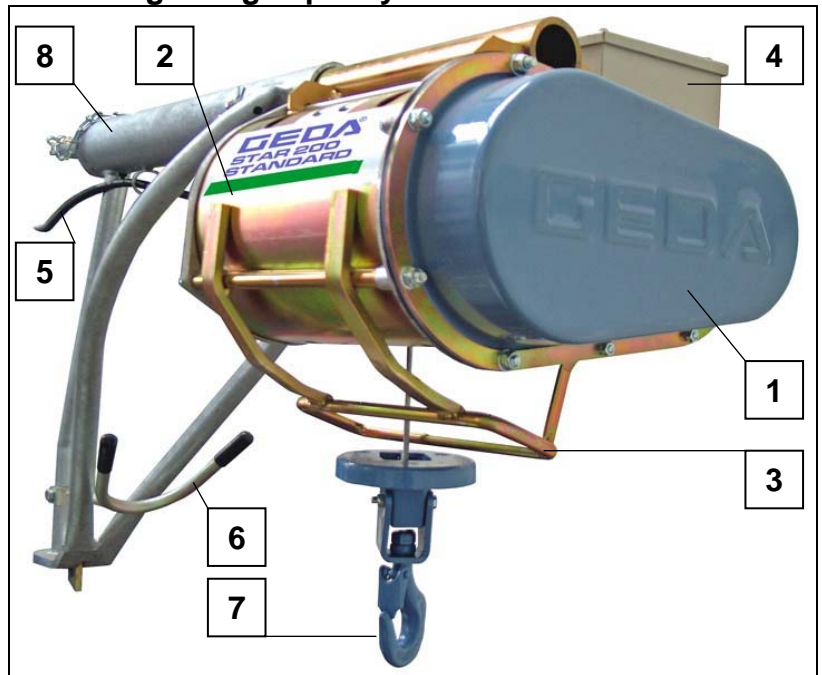


Fig. 3 GEDA STAR 200 STANDARD

6.1.2 GEDA STAR 250 COMFORT 250kg lifting capacity

- 1 = GEDA STAR 250 COMFORT
- 2 = cable drum
- 3 = limit switch
- 4 = mains cable
- 5 = locking pin with safety device
- 6 = safety catch
- 7 = load hook
- 8 = swivel arm

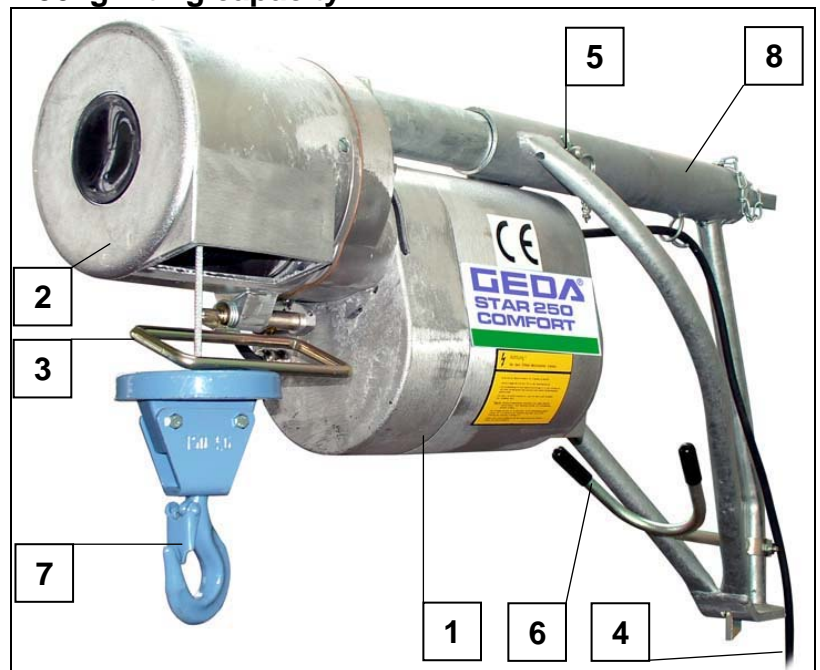


Fig. 4 GEDA Star 250 COMFORT

6.1.3 Manual control

Operation of the manual control is the same for all swivel arm hoists.

- The cable is 2 m long.
- On the GEDA STAR 250 COMFORT, the cable is pluggable.

- 1 = EMERGENCY STOP button
- 2 = UP button
- 3 = DOWN button
- 4 = suspension clamp

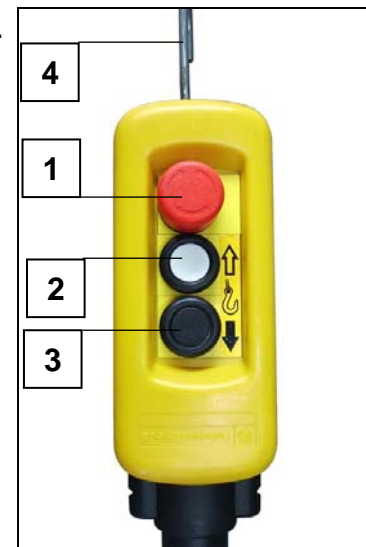


Fig. 5 Manual control

7 Transport

- Check the shipment for transport damages and for completeness according to your order.
- Immediately inform the carrier and handler if there are transport damages!

8 Requirements for the site of installation

Fastening option

The swivel arm hoist is secured on/in the building or scaffold by a fastening device.

- Ground, floor or scaffold must have sufficient fastening options and bearing capacity.

8.1 Electrical connection (on site)

- A building site main cabinet with residual current circuit breaker with 230 V, 50 Hz and 16 A slow-to-blow fuse must be provided by the customer.
- Connect a rubber hose line 3 x 2.5 mm² as a mains feed line directly to the building site main cabinet without any adapters from other power consumers, in order to avoid a drop in voltage and thereby a loss of motor power.

NOTE

If the power supply is poor, unplug any other current consumers.

- Plug mains plug into on-site power supply and plug in manual control on GEDA STAR 250 COMFORT. - The swivel arm hoist is operational.

9 Installation



The swivel arm hoist must be installed according to the assembly and operating instructions under the guidance of a qualified person specified by the company!

This qualified personnel must be acquainted with the assembly and operating manual, have sufficient experience and be informed about the risks involved in working with the swivel arm hoist.

9.1 Safety notes

Assembly personnel, see Chp. 3

- Before any installation, check whether the main rope, mains feed line and control with cable are in faultless condition. If there is any damage, do not start the swivel arm hoist!
- Immediately replace damaged parts.
- Acquaint yourself with the working environment at the place of utilisation, e.g. obstacles in the work and traffic area and necessary safeguarding of the construction site from public transport.
- Cordon off the danger zone of the swivel arm hoist (red-white chain, etc.) and label with a warning sign as shown.



Do not stand or work beneath the hanging load!

- Observe swivel arm hoist lifting capacity:
- Comply with the national accident prevention guidelines from the industrial safety authorities and all applicable laws and guidelines.
- Wear personal protective gear (e.g. hard hat, safety boots).
- Entering the load suspension device is forbidden.
- Conveying persons is forbidden!

9.2 Safeguarding the loading and unloading points

There must be loading point protection rails/lanyard rails attached which prevent persons falling out at **all** loading and unloading points where there is a risk of falling from a height of more than 2 m. (See national provisions)

NOTE

Assembly of the "Simple" loading point protection rails from GEDA is described in operating instructions (No. BL085) delivered separately for this loading point protection.



Fig. 6 Safeguarding loading and unloading points

9.3 Fastening options

All fastening devices fit the GEDA STAR 200 Standard and GEDA STAR 250 COMFORT

The swivel arm hoist is suspended in both bearing journals and must be secured by a linchpin (1).

NOTE

On the GEDA-STAR, the lower bearing journal (2) must be screwed onto the lower boreholes.

- Screw lower bearing journal (2) into the lower boreholes using 2 screws M 12 DIN 931-10.9.
Tightening torque 60 Nm (SW 18/19)

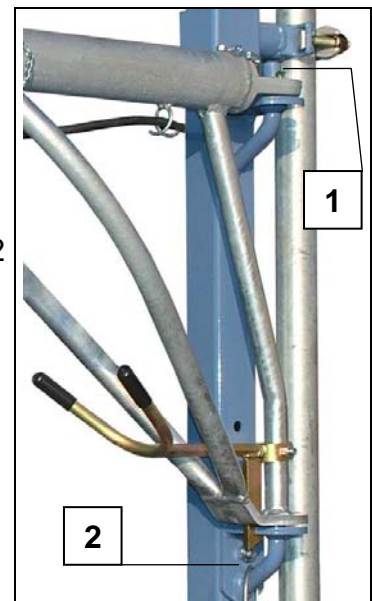


Fig. 7 Attach swivel arm

ATTENTION

Using a spirit level, align the fastening device so it is exactly vertical to ensure correct rope winding.

There are various fastening devices for the swivel arm hoist:

- Free-standing tripod frame, Chapter 9.3.1
- Scaffold fastening, Chapter 9.3.2
- Storey support, Chapter 9.3.3

9.3.1 Free-standing tripod frame

The tripod frame is transported in three assemblies.

- Assemble the tripod frame in the centre of the space. - Do not mount on the parapet edge due to the risk of falling.
- Lay both U-profile rails (1) in a triangle on level ground.
- Attach a ballast container (4) to this; likewise, attach standpipe (2) with struts (3). - The standpipe can be turned axially by 180°, depending on which direction the swivel arm is to be swung inwards.
- Screw down standpipe (2) at bottom and struts (3) at both ends (SW 24).

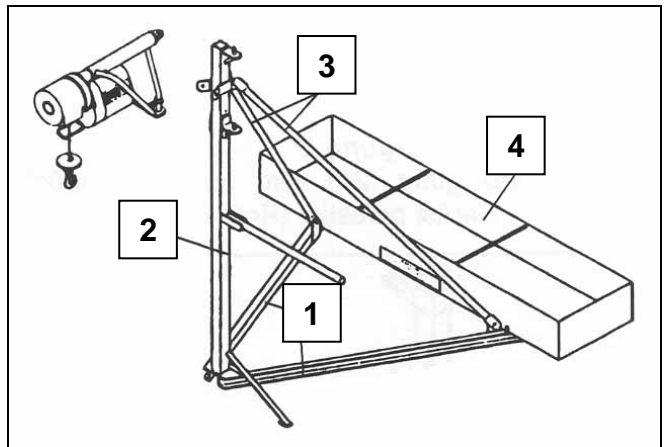


Fig. 8 Free-standing tripod frame

- Suspend swivel arm hoist and secure with a linchpin.
- Carefully push the entire tripod frame with swivel arm hoist and ballast container (4) to the parapet.
- **Caution, danger of falling!**
- Load up the ballast container (4) with 4.0 kN (400 kg).

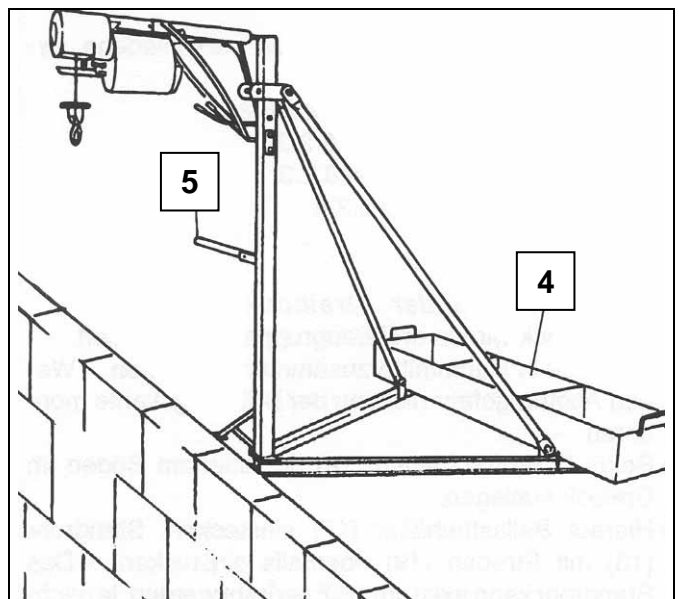


Fig. 9 Position the tripod frame



The swivel arm hoist is in principle operated from behind the side guide (5)!

9.3.2 Scaffold fastening

- The scaffold fastening (1) is secured with scaffold couplings to the scaffold (pipe $\varnothing 1\ 1/2"$).
- The upper scaffold coupling (2) can be shifted vertically so that the scaffold fastening can be mounted a variable heights.

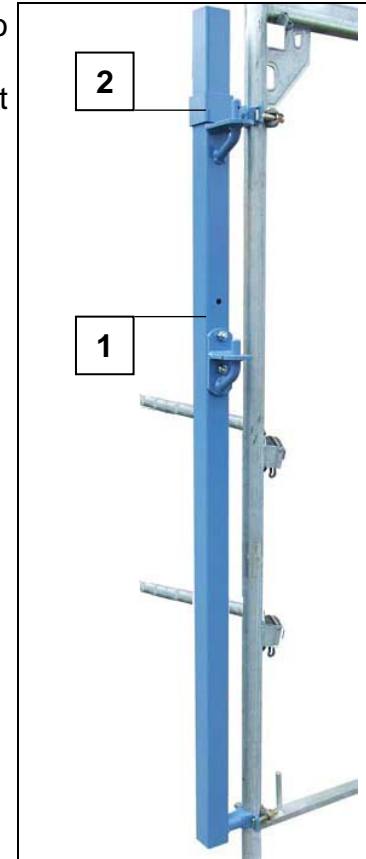


Fig. 10 Scaffold fastening

- Assemble railing pipes (5) as a lanyard rail whereby the pipes are each screwed to two vertical frames with rigid scaffold couplings (6) or assemble the "Simple" lanyard rail (Chp. 9.2).
- Anchor (4) (pull and pressure resistant anchor, at least 1.5 kN) and sufficiently brace (7) the vertical frame (3) (which the swivel arm hoist is fastened to) to the building at the upper and lower ends in addition to the normal scaffold anchoring.
- Suspend swivel arm hoist and secure with a linchpin.

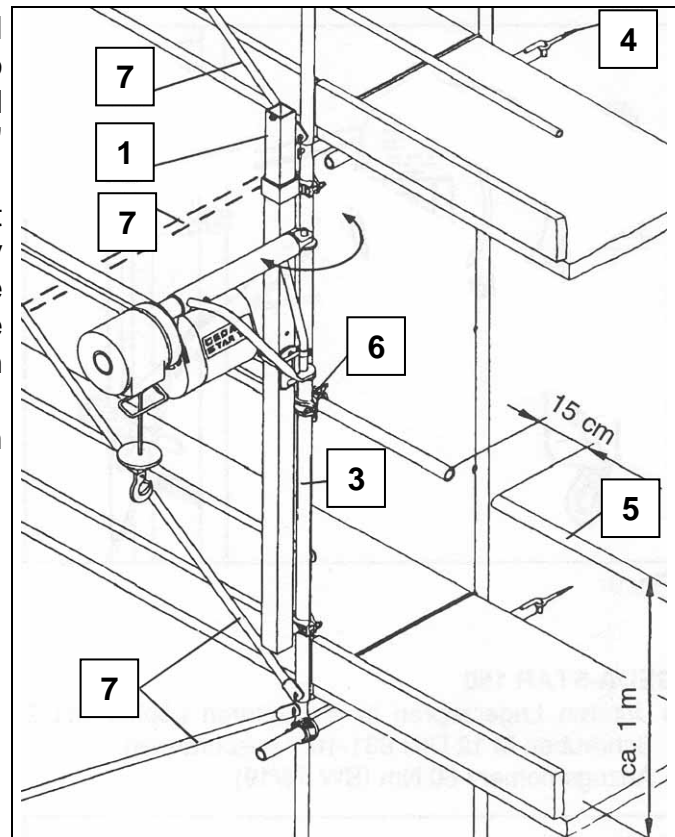


Fig. 11 Mount the scaffold fastening

9.3.3 Storey support with swivel joint

- Load can be swivelled inwards with window openings larger than 0.70 m wide
- Extendable from 230-325 cm.

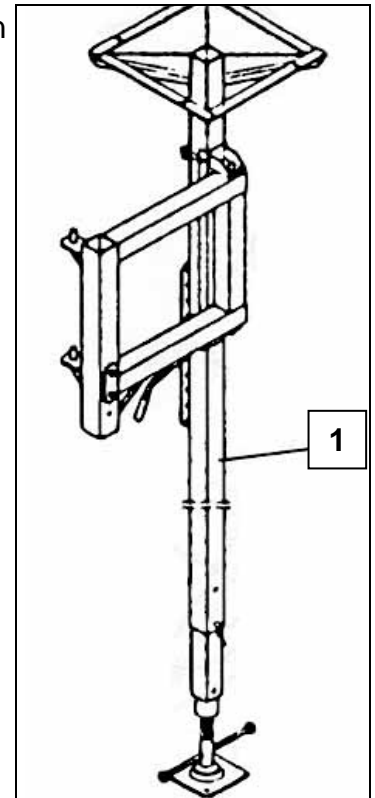


Fig. 12 Storey support

ATTENTION

When used on balconies, etc., they must not be overloaded by the restraints.

- Spread storey support (1) with large head plate (2) above by unwinding the lower spindle (3) between floor and ground and align until the swivel arm is locked into the extended position.
- Suspend swivel arm hoist and secure with a linchpin.

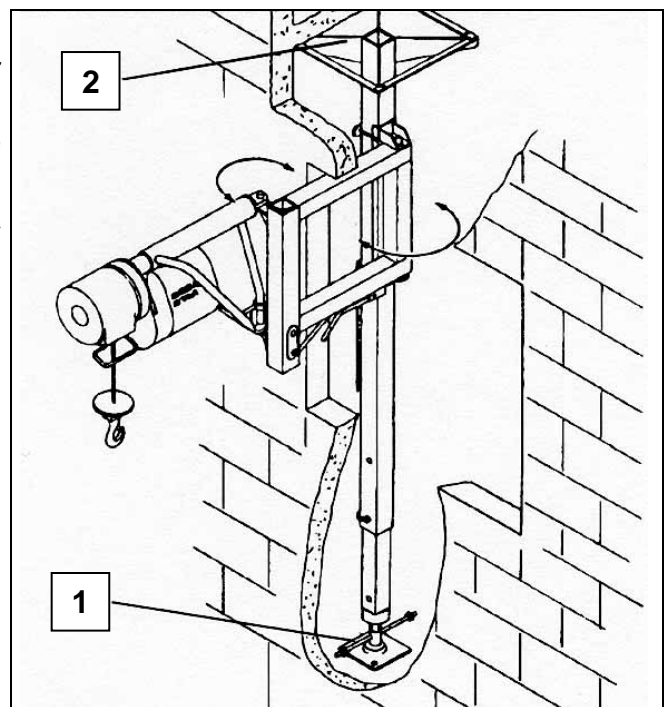


Fig. 13 Mount storey support

10 Load suspension devices



It is prohibited to enter the load suspension device or to use it for conveying persons!

The lifting capacity of the load suspension device varies and is embossed on each unit.

The following load suspension devices can be used together with the swivel arm hoists GEDA-STAR 200 STANDARD and GEDA STAR 250 COMFORT:

10.1 Bucket support for 2 buckets

For 2 round or oval buckets or 1 large oval bucket

Lifting capacity: 75 kg
Weight: 4.4 kg
(all dimensions in cm)

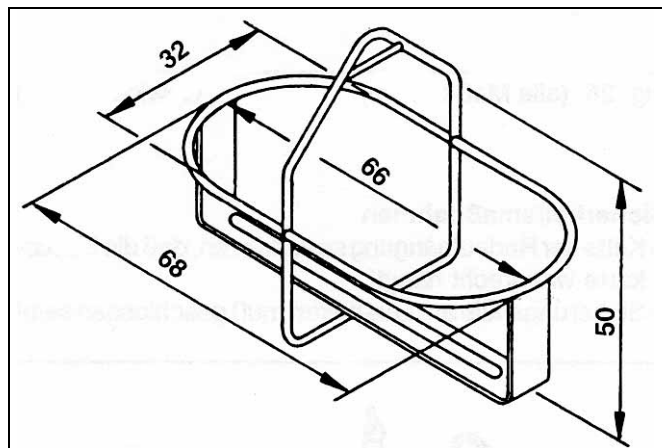


Fig. 14 Bucket support for 2 buckets

10.2 Bucket support for 4 buckets

For 2 or 4 round and oval buckets.

Lifting capacity: 150 kg
Weight: 9.0 kg
(all dimensions in cm)

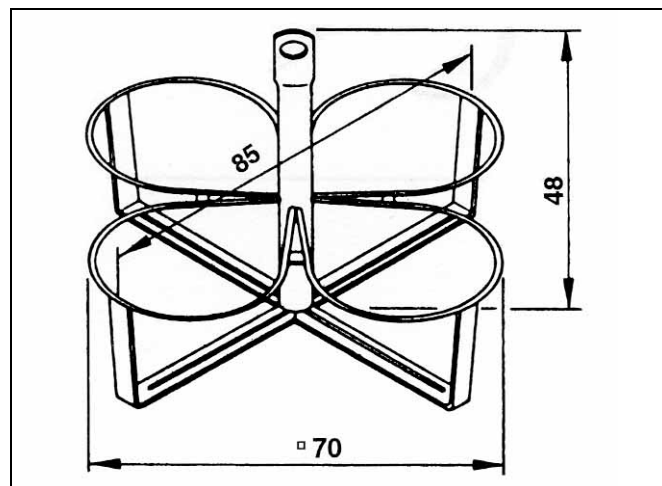


Fig. 15 Bucket support for 4 buckets

10.3 Bucket hoist for 4 buckets

- Hook rope hooks into the boreholes.
- For hanging 2 or 4 buckets. - Only use suitable, stable buckets.

Lifting capacity: 150 kg

Weight: 4.0 kg

(all dimensions in cm)

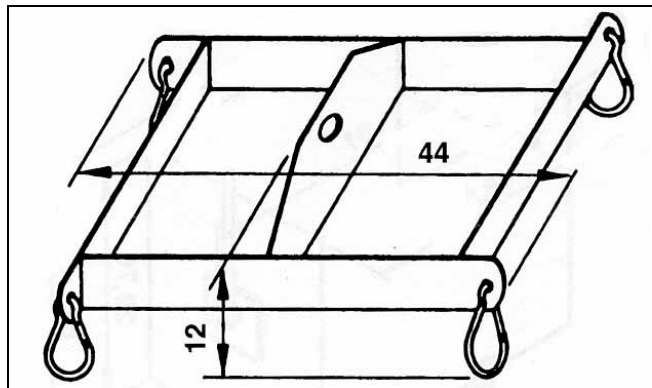


Fig. 16 Bucket hoist for 4 buckets

10.4 35 litre tilting bucket

- To tip out, open safety device (1) and tilt bucket.

Lifting capacity: 75 kg

Weight: 9.5 kg

(all dimensions in cm)

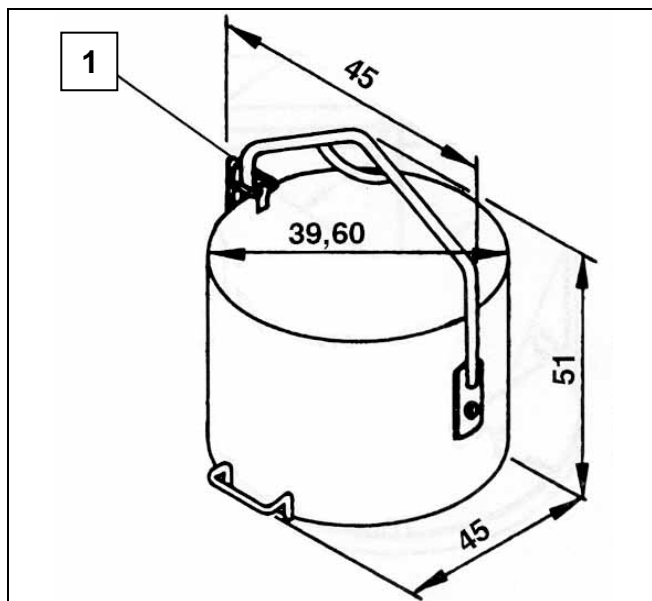


Fig. 17 35 litre tilting bucket

10.5 65 litre tilting bucket

- To tip out, open safety device (1) and tilt bucket.

Lifting capacity: 150 kg

Weight: 16 kg

(all dimensions in cm)

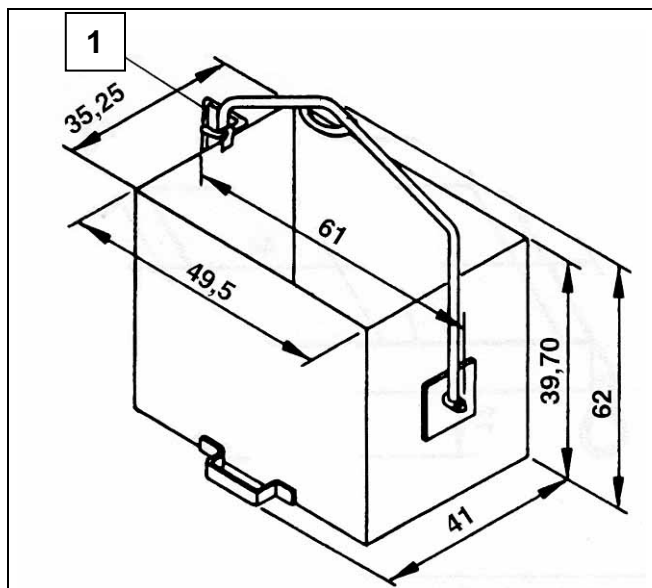


Fig. 18 65 litre tilting bucket

10.6 65 litre mortar silo

- Turn flap with lever (1) for unloading.

Lifting capacity: 150 kg
 Weight: 23 kg
 (all dimensions in cm)

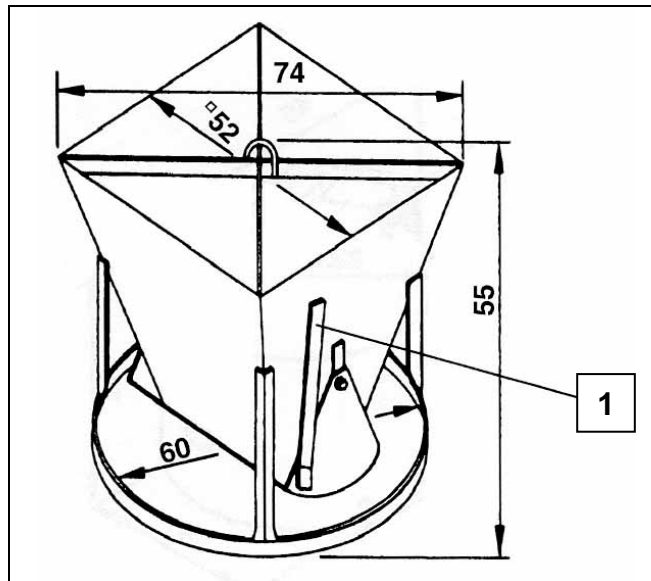


Fig. 19 65 litre mortar silo

10.7 Chain suspension for wheel barrows

Lifting capacity: 150 kg
 Weight: 4.0 kg
 (all dimensions in cm)

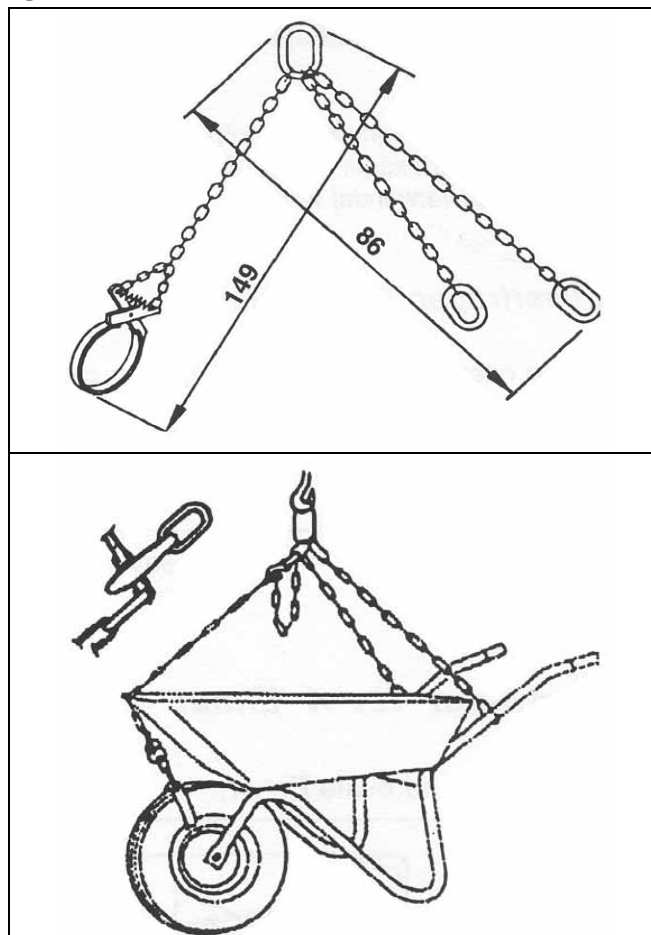


Fig. 20 Chain suspension for wheelbarrows

Safety measures

- Shorten the chain on the wheel suspension so that the wheelbarrow hangs level!
- The safety catch on the load hook must be closed!

10.8 Wire mesh cage with wooden palette

Loading

- Stack the load on the palette (46).
- Lift the safety catch (3), pull the lever (2) out.
- Raise the wire mesh cage above the load until it sits on the palette (1).
- Turn the lever (2) so it is vertical and slide the safety device (3) down.

Unloading

- Lift the safety device (3), pull the lever (2) out.
- Lift the wire mesh cage off the load.
- Unload palette (1).

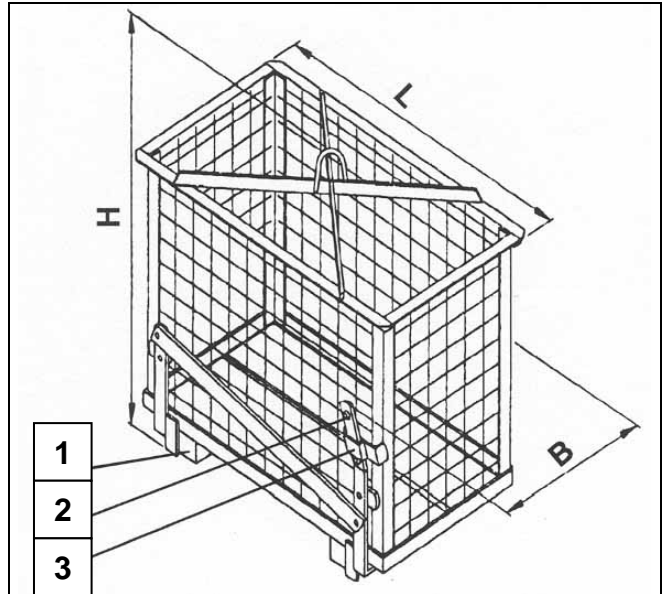


Fig. 21 Wire mesh cage with wooden palette

Lifting capacity: 150 kg

Weight: 21 kg

Inside measurements (cm)	Outside measurements (cm)
l = 62	L _{tot} = 70
w = 32	W _{tot} = 44
h = 50	H _{tot} = 67

10.9 Hoisting cage with wooden palette

Loading

- Stack the load on the palette (1).
- Lift the safety catch (3), pull the lever (2) out.
- Put the cage over of the load until it sits on the palette (1).
- Turn the lever (2) so it is vertical and slide the safety device (3) down.

Unloading

- Lift the safety catch (3), pull the lever (2) out.
- Lift the hoisting cage off the load.
- Unload palette (1).

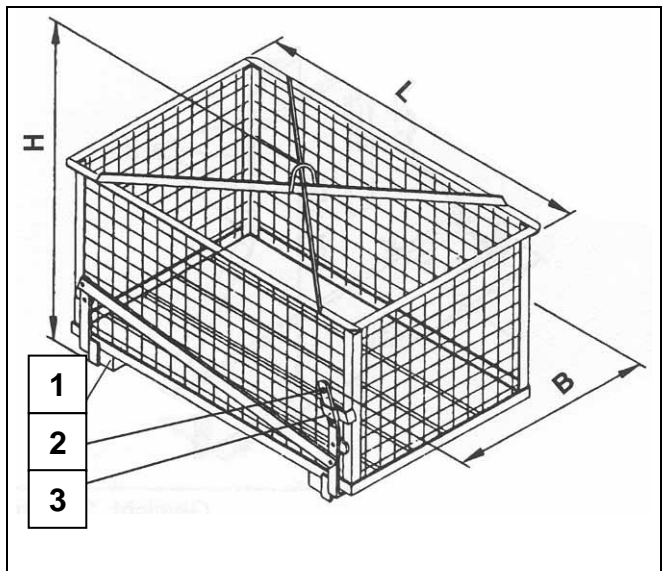


Fig. 22 Hoisting cage with wooden palette

Lifting: 150 kg

Weight: 38 kg

Inside measurements (cm)	Outside measurements (cm)
l = 92.50	L _{tot} = 101
w = 57	W _{tot} = 69
h = 44	H _{tot} = 62

10.10 Slab grab

- Hook the rope hook onto the ring (1)
- During lifting, the slabs are held by the lever (2).
- While unloading, slacken the rope so that the lever (2) can be swivelled up by min. 90°.
- The slab grab can be adjusted in height depending on the width of the slab. To do this, remove the screws (3) (always fasten the upper part to the lower part using 4 screws).
 - Lowest position for slab widths from 100 to 83 cm.
 - Middle position for slab widths from 112 to 95 cm.
 - Highest position for slab widths from 125 to 108 cm.

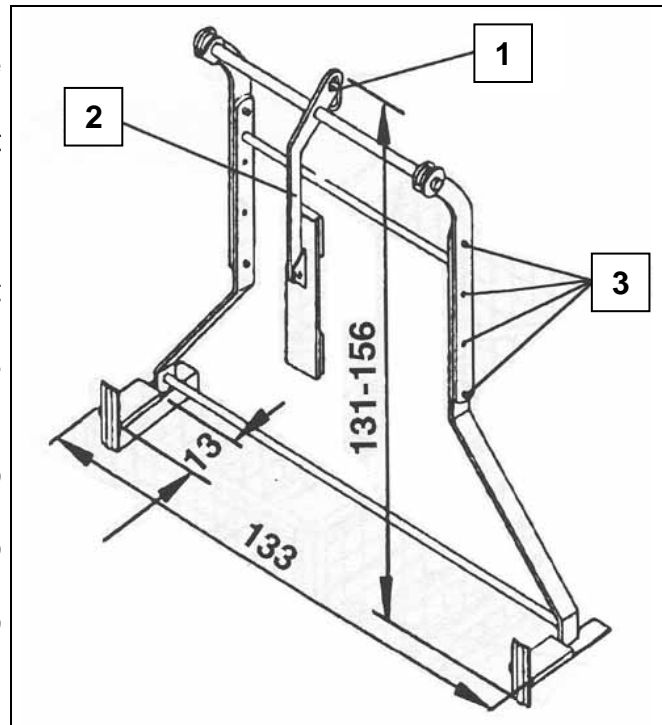


Fig. 23 Slab grab

Lifting capacity: 150 kg

Weight: 24 kg

(all dimensions in cm)

11 Operation

11.1 Safety notes



The swivel arm hoist may only be operated by qualified personnel chosen by the employer. This qualified personnel must be familiar with the assembly and operating instructions, have sufficient experience, and must be instructed in the dangers involved in working with the swivel arm hoist.

Operating personnel (see Chp. 3)

- The lift is to be operated from outside the danger zone.
- Before starting work at the place of utilisation, acquaint yourself with the working environment, e.g. obstacles in the work and traffic area and necessary safeguarding of the construction site from public transport.
- Check at least once a day for externally recognisable damage and defects. - Immediately report any changes or malfunctions identified to the company management or his/her authorized representative. If necessary, shutdown and secure the swivel arm hoist immediately.
- Secure the swivel arm hoist thoroughly against unauthorized access! - Do not leave the manual control lying around at the end of work/breaks.
- Never leave the swivel arm hoist loaded. - Unload first.
- Observe national accident prevention guidelines and/or workplace guidelines.
- Keep the hanging load under constant observation from the operating position!



Do not stand or work beneath the hanging load!

- Wear personal protective gear (e.g. hard hat, safety boots).
- Do not enter the load suspension device!
- Conveying persons is forbidden!
- Likewise observe the safety instructions in Chp. 4.



11.2 Impermissible modes of operation

- Exceeding the lifting capacity.
- One-sided loading of the load suspension device.
- The load suspension device must not be up at the end of work.
- Working with defective or missing rope breakage safety device.
- Operation of the lift must be stopped if:
 - Wind speeds are over 72 km/h (= wind force 7-8; stormy winds).
 - Temperatures are below -20°C .
 - There is damage or there are other faults.
 - A reoccurring inspection is missing (see Chp. 4.3.1).

11.3 Safety inspection

Before starting work

Carry out a test run with **empty** load suspension device and check whether the entire length of travel is clear.

The actuator must be stopped immediately if

- an EMERGENCY STOP button is pressed
- the load hook has reached the limit switch bow in front of the cable drum.
- the direction button for UP or DOWN is released.

11.4 Operating the swivel arm hoist

NOTE

The swivel arm hoists for GEDA-STAR 200 STANDARD and GEDA-STAR 250 COMFORT have a **speed level** of max. 28 m/min. (22 m/min. on GEDA STAR 200 STANDARD)

The swivel arm hoist can only be controlled in jog mode.

- Unlock EMERGENCY STOP button (1) on manual control.
- Load up
 - Press UP button (2).
- Load down
 - Press DOWN button (3).
- Switch off or stop:
 - Release UP button (2) or DOWN button (3).
 - In an emergency by operating the EMERGENCY STOP button (1).

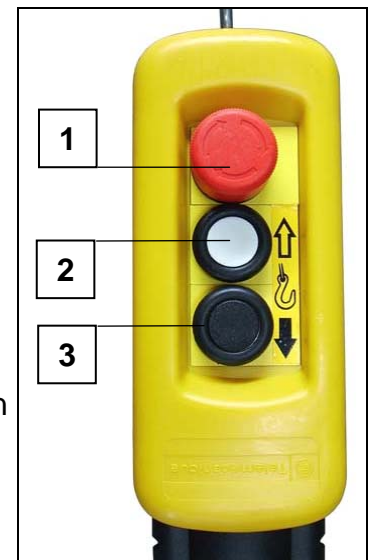


Fig. 24 Operating/control

NOTE

If the swivel arm hoist is to be operated from below, then this can be done by plugging in manual controls with long cables of 30 m or 50 m (accessories).

11.5 Interruption/end of work

- Move load suspension device down to lower position with the DOWN button and unload.
- Unplug manual control (if possible) and keep safe.
- Remove mains plug.

11.6 Shutting down in an emergency

- In situations that present a risk for the operating personnel or the lift, shutdown the lift by pressing the EMERGENCY STOP button.
- There is an EMERGENCY STOP button located at each control point.

NOTE

EMERGENCY STOP palm button switches are equipped with a stopping mechanism and remain operated until they are un-locked again manually (turn red button to the right and pull it back).

12 Dismantling (disassembly)



The swivel arm hoist must be dismantled according to the assembly and operating instructions under the guidance of a qualified person determined by the company! This qualified personnel must be familiar with the assembly and operating instructions, have sufficient experience, and must be instructed in the dangers involved in working with the swivel arm hoist.

The same regulations and safety notes as described in Chp. 9 apply for dismantling. Also, make sure that disassembly is carried out generally in reverse order to assembly:

- Cordon off danger zone and attach warning notices.
- Disassembly is carried out in reverse order to assembly.

13 Malfunctions-Cause-Remedy



Faults may only be remedied by qualified personnel!

The load must be secured and/or detached prior to any troubleshooting!

ATTENTION

Remove mains plug before working on the electrical equipment of the lift.
Discontinue operation immediately if faults (e.g. damage to the wire rope) occur that endanger operational safety!

Check the following if there are faults:

- Mains feed line plugged in?
- Fuses in the building site main cabinet? (16 A, slow-to-blow)
- Correct extension cable? Cable cross section at least 3 x 2.5 mm²
- Is the EMERGENCY STOP button unlocked?
- Is the limit stop free and/or the limit switch not pressed?
- Load suspension device overloaded?
- Check miniature fuse in drive (63 mA slow-to-blow and 250 mA)
unplug unit, remove motor cover (3 screws SW 10).

Motor is not giving full output:

- Fall in voltage of more than 10 % of the nominal voltage.
- Select supply cable with higher wire cross section.
- Reduce load.
- If the motor is overheated, the integrated thermal switch turns off the actuator motor and the control. - Work can continue after a certain cool-down period.

ATTENTION

Refrain from overheating (overloading) repeatedly and/or operation with low voltage. - Doing so shortens the life of the motor.

Faults with the rope winding

- Rope only winds on the one side on the drum.
- Is the scaffold support, on which the swivel arm hoist is hanging, vertical?
- Is the appropriate rope length for the construction height on the drum?
- Does the rope run vertically out of the drum?
- Wind slack rope onto the cable drum while guided by hand until the load hook hangs free.
- Rope is wound on the cable drum in opposite winding direction.
- Winding direction of the rope does not match the direction button (UP or DOWN button).
- Swivel arm hoist does not pull the nominal load?
- Rope touches the drum protector?

14 Maintenance



Maintenance work may only be carried out by qualified personnel. Make sure that lubricants and spare parts are disposed of in an environmentally friendly way.

- Before cleaning and maintenance work, first convey the load suspension device down and remove mains plug!

14.1 Check before each use

- Check electrical cable for damage.
- Check rope for damage and wear.
- Function of the EMERGENCY STOP button
If the EMERGENCY STOP button has been pushed, then no upwards or downwards movement by the load suspension device should be possible!
- Carry out a test run with an empty load suspension device and check if
 - The entire travel path of the load platform is free.
 - Are the upper/lower limit switches functioning?

14.2 Weekly inspection/maintenance

- Clean dirt off swivel arm hoist.
- Keep work area around swivel arm hoist clear and clean.
- Check rope for wear (e.g. breakages in the cable braid, squashed points) and corrosion; if necessary replace the rope (Chapter 14.5).
- Check fastening devices are secure, tighten if necessary.

14.3 Quarterly inspection/maintenance

Are the notices present and easily legible?

14.4 Every 3000 operating hours

- Change the grease on the gear of the cable drum gear motor.
 - Grease amount = approx. 600 g on the GEDA-STAR 250 COMFORT
 - Grease amount = approx. 1600 g on the GEDA-STAR 200 STANDARD
 - Recommendation: DIVINOL, ARAL-Lub FD 00, BP-Energrease HTO, ESSO-Fibrax 370
- Dispose of old lubricant in an environmentally-friendly manner.

14.5 Changing the rope**14.5.1 Changing the rope on the cable drum**

- Completely unwind the rope.
- Remove the black plastic cover from the drum protector.
- Loosen the rope clamping lug on both screws, pull out the rope and insert a new rope.
- Tighten the rope clamping lug and close the plastic cover. Wind the rope up again cleanly and evenly.

14.5.2 Changing the rope on rope weight

- Remove one screw (4) on the non-twisting device (1) and fold it to the side.
- Push back the rope wedge (2), unscrew the clamping screw (5) and pull out the rope.
- Lead the new rope in from above through the rope weight (3), make a loop, guide the rope end back and horizontally through the borehole.

NOTE

Do not allow the rope to project at the circumference of the rope weight (3).

- Firmly clamp the rope end with the clamping screw (5) (hexagon socket size 3).

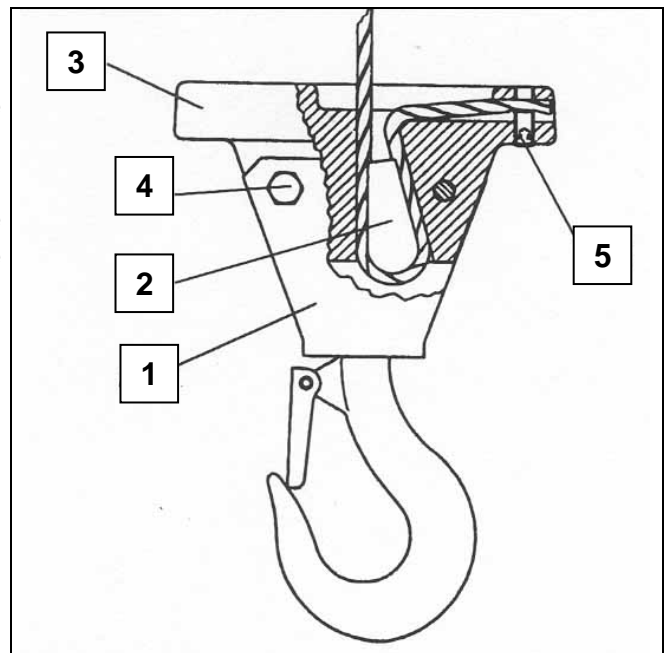


Fig. 25 Rope weight

- Place the rope wedge (2) into the loop and pull the rope back only in the centre until rope wedge is secure.
- Flip back the non-twisting device (1) and re-fasten with the screw (4).



Measure sufficient rope length, as the last two rope windings must always remain on the cable drum.

15 Maintenance



Maintenance work may only be carried out by trained and qualified persons because they need special expert knowledge and special abilities. Neither is communicated in this operating manual.

When ordering spare parts please state the following:

- Type
- Year of construction
- Serial No.
- Operating voltage
- Desired piece number

The type plate is located on the base unit of the machine.

NOTE

Spare parts must correspond to the technical requirements of the manufacturer! Only use original spare parts from GEDA.

Place an order with our customer service for servicing or maintenance work:

Sales and customer service addresses:

GEDA®

O R I G I N A L

Mertinger Straße 60

D-86663 Asbach-Bäumenheim

Germany

Phone +49 (0)9 06 / 98 09-0

Fax +49 (0)9 06 / 98 09-50

Email: info@geda.de

WWW: <http://www.geda.de>

16 Disposing of the swivel arm hoist

Professionally dismantle the swivel arm hoist at the end of its service life and dispose of it according to national provisions.

Observe the following when disposing of swivel arm hoist components:

- Discharge oil/grease and dispose of in an environmentally friendly way
- Recycle metal parts
- Recycle plastic parts
- Take electrical components to hazardous waste recycling.

Recommendation:

Get in touch with the manufacturer or authorise a specialist company with the prescribed disposal.

17 Warranty

Please find the warranty conditions in the general business conditions (see invoice or delivery note). Not included in the warranty are damages or defects that occur as a result of non-prescribed electrical connection, improper handling, non-compliance with the assembly and operating instructions. Electrical cables and parts that are subject to normal wear and tear are also excluded. We reserve the right to determine how and through whom the defects are to be remedied.

Copy of the EC-Declaration of conformity

EC Declaration of Conformity



The manufacturer

GEDA-Dechentreiter GmbH & Co. KG
Mertinger Str. 60
DE-86663 Asbach-Bäumenheim

hereby declares that the machine

Designation: **Construction hoist for material transport**
(Rope winch for temporary, non-public use by authorised persons)

Typ: **GEDA® STAR 200 STANDARD**
Serial No.. 15750

GEDA® STAR 250 COMFORT
Serial No.29629

Year of manufacture: see type plate of the machine

is in compliance with all pertinent provisions of the following directives at the time of being put on the market.

Directives: Applied
Conformity assessment

2006/42/EC	Machinery Directive	Annex VIII
2006/95/EC	Low Voltage Directive	Annex IV
2004/108/EC	EMC Directive	Annex II
2000/14/EC	Noise Emission Regulations	Annex V

Applied (harmonised) norms:

EN ISO 12100-1/-2	EN 12158:2001
DIN EN ISO 14121-1	EN ISO 3744:2009
EN 60204-1/32	EN 81-1:1998
EN 50081-1/2	

Measured sound power level (L_{WA}) 83 dB (A) GEDA® STAR 200 STANDARD
75 dB (A) GEDA® STAR 250 COMFORT

Guaranteed sound power level (L_{WA}) 85 dB (A) GEDA® STAR 200 STANDARD
77 dB (A) GEDA® STAR 250 COMFORT

This EC conformity declaration becomes null and void if any changes are made to the aforementioned machine that have not been authorised by the manufacturer. Authorised representative for technical documentation is the signatory.

Asbach-Bäumenheim 01.10.2010

Johann Sailer
(Managing Director)

18 Appendix for entering reoccurring inspections

Inspection findings

Date and signature of the tester

Inspection findings

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