Assembly and Operating Manual



Scaffolding lifts

For the transport of burdens

Bearing capacity: 60 kg or 120/150 kg

Year of construction:

Serial number:



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Table of Contents:

<u>C</u>	hapter		<u>Page</u>
1	PREF	FACE	4
2	DATA	4	5
3	INTE	NDED USE AND AREA OF APPLICATION	6
Ĭ		RESIDUAL RISKS	
4	SAFE	TY	7
		EXPLANATIONS OF SYMBOLS AND NOTES	
	4.1.1		
	4.1.2 4.1.3		
	_	NoteGENERAL SAFETY	
		OPERATING SAFETY	
	4.3.1		
	4.3.2		
	4.3.3		
		PROMOTING USE OF OPERATING MANUALS	
5	TECH	INICAL DATA	12
6	DES	CRIPTION	14
		COMPONENTS AND OPERATING ELEMENTS	
	6.1.1		
	6.1.2		
	6.1.3	GEDA-MAXI 120 S with 120 kg bearing capacity and GEDA-MAXI 150 S v	vith 150 kg bearing
	capa	city	16
7	TRAN	NSPORT	17
8	REQ	UIREMENTS FOR THE SITE OF INSTALLATION	18
	8.1	ELECTRICAL CONNECTION	18
9	INICT	ALLATION	10
9			
		SAFETY NOTES	
		FASTENING POSSIBILITIES Pivot arm for the GEDA-MINI 60 S	
	9.2.1		
	9.2.3		21
	9.3	SAFETY OF THE LOADING AND UNLOADING POINTS	22
10) LOAI	D SUSPENSION DEVICES	23
	10.1	LOAD HOOK	23
	10.2	CABLE SLING	23
		HOOK CARRIER	
		HOIST SLING	
		BUCKET CARRIER FOR 2 BUCKETS	
		BUCKET CARRIER FOR 4 BUCKETSBUCKET RING FOR 4 BUCKETS*	
		TILTING BUCKET 65 LITRE	
		MORTAR SILO 65 LITRE	
	10.10	LIFTING GEAR FOR WHEEL BARROWS	26
		STONE BASKET WITH WOODEN PALETTE	
		HOISTING CAGE WITH WOODEN PALETTE	
	10.13	SLAB GRAB	∠8

<u>Chap</u>	<u>oter</u>	Page
11	OPERATION	29
11.	.1 SAFETY NOTES	29
11.		
11.	.3 OPERATE SCAFFOLDING LIFT	30
12	DISMANTLING (DISASSEMBLY)	31
13	MALFUNCTIONS-CAUSE-REMEDY	31
14	MAINTENANCE	33
14.		
14.		
14.		
14		
14		
	14.5.1 Cable change at the cable drum	
	14.5.2 Cable change at the cable weight	
	MAINTENANCE	
13	IVIAIN I ENANGE	ან
16	DISPOSAL OF THE SCAFFOLDING LIFT	37
17	WARRANTY	37
COP	Y OF THE EC-DECLARATION OF CONFORMITY	38
	APPENDIX FOR ENTERING REOCCURRING INSPECTIONS	39
Lis	st of Illustrations	
	1 Type plates	5
	2 Emergency stop button	
	3 Comparison of pivot arms	
_	4 Manual control	
	5 Components GEDA-MINI 60 S	
	6 Components GEDA-MAXI 120 S/150 S	
	7 Lifting with a lifting device	
	B Lifting winch onto scaffolding	
	Transporting the winch	
	10 Fastening tilting mechanism	
	11 Pivot arm Mini 60 S	
	12 Pivot arm mounting MINI 60 S	
	3 Universal pivot arm MAXI 120 S/150 S	
	14 Safety of loading and unloading points	
_	15 Load hook	
_	16 Cable sling	
_	17 Hook carrier	
	18 Hoist sling	
	19 Bucket support for 2 buckets	
	20 Bucket support for 4 buckets	
	21 Bucket ring for 4 buckets	
	22 Tilting bucket 65 Litre23 Mortar silo 65 Litre	
	24 Lifting gear for wheel barrows	
_	25 Stone basket with wooden palette	
	26 Hoisting cage with wooden palette	
	27 Slab grab	
	28 Manual control	
	29 Cable change at the cable drum	
	30 Cable change at the cable weight	

1 Preface

Who should read this assembly and operating manual?

- Assembly and operation personnel working with the scaffolding lift
- Maintenance personnel for the scaffolding lift (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
- Trouble shooting
- Customer service

This assembly and operating manual communicates important information that is a prerequisite for working safely and economically with the transport scaffolding. The assumption is made that the transport scaffolding 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.

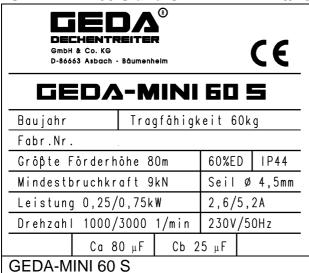
What you should consider when re-selling the scaffolding lift?

If you sell the lift, 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 MINI 60 S and GEDA MAXI 120/150 S



GmbH & 0	REITER	umenhe	ılm	CE
GEC	DA-M	ΔΧΙ	75	io s
Baujahr	Trag	gfāhigk	eit	150kg
Fabr.Nr.				
Größte Fö	Größte Förderhöhe 80m			
Mindestbruchkraft 11,5kN Seil Ø 4,5mm			l Ø 4,5mm	
Leistung 0,45/1,35kW 5/9A Drehzahl 1000/3000 1/min 230V/50Hz IP44 60%ED Ca 80 μF Cb 40 μF		Α		
		V/50Hz		
		Cb 40 μF		
GEDA MAXI 150 S				

Fig. 1 Type plates

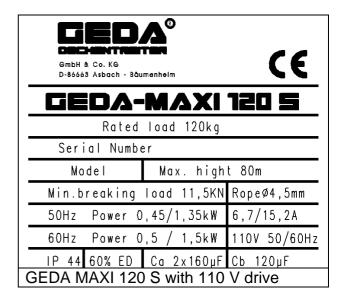
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DECHENT GmbH & 0 D-86663	REITER	āumenhe	•lm	CE
GEC	3Δ-Μ	ΔΧΙ	75	<u> 20 5</u>
Baujahr	Tro	gfähigk	eit	120kg
Fabr.Nr.				
Größte Förderhöhe 80m				
Mindestbruchkraft 11,5kN Seil Ø 4,5mm Leistung 0,45/1,35kW 5/9A			l Ø 4,5mm	
			Α	
Drehzahl 1000/3000 1/min 230V/50Hz		V/50Hz		
IP44	60%ED	Ca 80) μF	Cb 40 μF
GEDA-MAXI 120 S				



CE labelling

The scaffolding lift has the CE symbol.

Country of origin: Made in Germany

3 Intended use and area of application



The scaffolding lift GEDA MINI 60 S and GEDA MAXI 120 S/150 S 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 as intended use. The manufacturer/supplier is not liable for any damage resulting from this. The user bears sole responsibility for this risk.

 The GEDA lift may only be used to convey goods and construction material during construction work.

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 of the equipment

- Danger for life and limb of the user or a third party.
- Damage to machine 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 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 (> 72 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 scaffolding lift.

4.1.3 Note

Note

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

4.2 General safety

The "scaffolding lift GEDA MINI 60 S and GEDA MAXI 120 S/150 S" - named scaffolding lift in the following - is built according to the current status of technology and is safe to operate. However, it is due to its work processes that the scaffolding lift 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 scaffolding lift. Risks can arise from this scaffolding lift 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 scaffolding lift assembly and operating manuals and safety notes!

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

- Keep the operating manual accessible in close proximity to the scaffolding lift.
- The scaffolding lift 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 scaffolding lift 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 scaffolding lift. Non-compliance can lead to a loss of any compensation claims.

4.3 Operating safety

- The scaffolding lift must be set up and dismantled according to this operating manual and under supervision by expert personnel determined by the employer.
- Stably set up and secure the scaffolding lift.
- Observe scaffolding lift bearing capacity:
- Only use the scaffolding lift in technically fault-free condition and in a safety and risk conscious manner, while observing the operating manual.
- Constantly observe the hanging load from the operating position.



Do not stand or work beneath the hanging load!

- Immediately remedy faults that could impair safety. Immediately shutdown the machine if there are safety-relevant changes to the scaffolding lift or its operating behaviour, and report the fault to the company management or its representative.
- Do not carry out any changes, mount parts on or make conversions to the scaffolding lift.

- Do not start the scaffolding lift if persons could be endangered by the lift, the load suspension device or the load. Secure the scaffolding lift's danger zone and attach warning notices (Caution construction lift).
- 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 scaffolding lift, the winch can be shutdown by pressing the EMERGENCY STOP button (1) on the manual control of the machine.
- Stop and run the scaffolding lift down with wind speeds >72 km/h. (Wind force 7-8, wind moves trees and impedes pedestrians!)



Fig. 2 Emergency stop button

4.3.1 Inspection procedures

GEDA MINI 60 S and GEDA MAXI 120 S / 150 S 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 utilization, 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.
- Only load and transport equipment that has been carefully dismantled, packed and tied securely.
- Secure the scaffolding lift thoroughly against unauthorized access! Do not leave the manual control lying around loose at the end of work or during breaks; remove and secure it under lock and key.
- Thoroughly secure load. Think about sudden winds. Never leave the scaffolding lift loaded. - First unload.
- Do not stand or work beneath the load!
- Do not place objects under the load platform.
- Do not enter the load suspension device!
- Load up load suspension device evenly, observe max. bearing capacity.
- Projecting loads are not allowed.
- Check at least once a day for externally recognizable damages and defects. Immediately
 report any changes or malfunctions determined to the company management or his/her
 authorized representative. If necessary, shutdown and secure the scaffolding lift
 immediately.
- Observe national accident prevention guidelines and/or workplace guidelines.

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 scaffolding lift 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. The employees are obliged by the 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 using work equipment by employees during work.

The following notes must be given to the employee:

- The potential risks when working with the load suspension device and the necessary protective measures and codes of conduct including instructions in the case of danger or about first aid
- Type and scope of regular inspections for safe working condition
- Repairs and remedying of operational faults
- Environmental protection
- Safe handling of electrical equipment.
- The user must ensure cleanliness and clarity at the place where the scaffolding lift 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 scaffolding lift only in fault-free condition. He/She
 is obliged to report immediately to the superior any changes occurring to the scaffolding lift
 that affect safety.
- Observe attached notices and warning signs.
- The user must make sure that no unauthorized persons are located on or near the scaffolding lift.

5 Technical data

Electrical connection	V, Hz	230, 50
Output of the drive	kW	0.25/0.75KW at 900/2700 rpm
Duty ratio	DR %	60
Manual control with EMERGENCY STOP button	m	10
Wire rope-∅	mm	4,5 DIN 3069 SE 1770
Rope uptake capacity of the drum max.	m	81
Load cable for lifting height	m	25 (40)
Pivoting frame (pivoting radius)	m	0.85
Hoisting speed	m/min	19/57
Service weight (unit with pivot arm and 51 m cable)	kg	61.7
Packaged dimensions of scaffolding lift LxWxH	cm	63x53x48
Pivot arm dimensions LxWxH	cm	120x70x10

Noise emission - Emission values taken from the place of deployment

(the measurement inaccuracy is 4 dB(A) LPA 78,0 dB (A) Empty run noise LPA 80,0 dB (A) Operating noise

GEDA-MAXI 120 S - Load bearing capacity 120 kg

Electrical connection	V, Hz	230, 50 (110, 50)
Output of the drive	kW	0.45/1.35KW at 900/2700 rpm
Duty ratio	DR %	60
Manual control with EMERGENCY STOP button	m	10
Wire rope-∅	mm	4,5 DIN 3069 SE 1770
Rope uptake capacity of the drum max.	m	81
Load cable for lifting height	m	25 (40)
Pivoting frame (pivoting radius)	m	0.85
Hoisting speed	m/min	18/54
Service weight (winch with 51 m cable)	kg	60
Packaged dimensions of scaffolding lift LxWxH	cm	63x63x65
Standard pivot arm dimensions LxWxH	cm	185x100x15
Special pivot arm dimensions LxWxH	cm	205x110x15

GEDA-MAXI 150 S - Load bearing capacity 150 kg

OLDA-MAXI 130 0 - Load bearing capacity 130 kg		
Electrical connection	V, Hz	230, 50
Output of the drive	kW	0.45/1.35KW at 900/2700 rpm
Duty ratio	DR %	60
Manual control with EMERGENCY STOP button	m	10
Wire rope-∅	mm	4,5 DIN 3069 SE 1770
Rope uptake capacity of the drum max.	m	81
Load cable for lifting height	m	25 (50)
Pivoting frame (pivoting radius)	m	0.85
Hoisting speed	m/min	14/42
Service weight (winch with 51 m cable)	kg	60
Standard pivot arm dimensions LxWxH	cm	185x100x15
Special pivot arm dimensions LxWxH	cm	205x110x15

Noise emission - Emission values taken from the place of deployment

ATTENTION

Only the pivot arm with reinforcement (1) (welded gusset plate) is designed for a bearing capacity of 150 kg (see also imprint (2) on the pivot arm).

Pivot arms of earlier manufactures are without reinforcement (welded gusset plate) and may be used exclusively for the MINI 60 S.

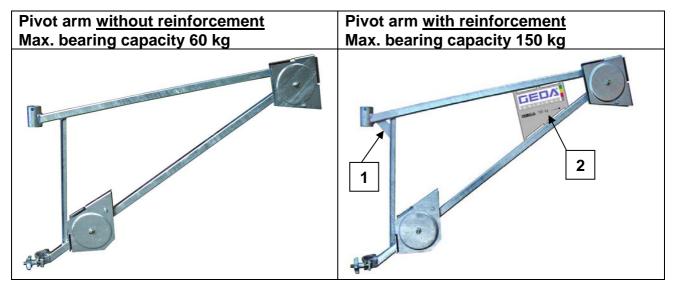


Fig. 3 Comparison of pivot arms

Load suspension device (for GEDA MINI 60 S and for GEDA MAXI 120 S/150 S)

-	Load hook for scaffolding	0.5 kg
-	Cable sling Ø 5mm, 35cm long	0.1 kg
-	Hoist sling (for scaffolding pipes)	0.4 kg
-	Hook support for 5 load hooks	2.3 kg
-	Bucket carrier for 2 buckets	4.4 kg
-	Bucket support for 4 buckets*	9.0 kg
-	Bucket hangers for 4 buckets*	4.0 kg
-	Universal bucket 65 Litre *	16.0 kg
-	Mortar silo 65 Litre *	23.0 kg
-	Stone basket 62x32x50 cm with wooden palette *	21.0 kg
-	Hoisting cage 95x60x45 cm with wooden palette *	37.6 kg
-	Lifting gear for wheel barrows *	4.0 kg
-	Slab grab *	24.0 kg
_		

* only for GEDA MAXI 120 S/150 S

Accessories (for GEDA MINI 60 S and for GEDA MAXI 120/150 S)

-	Manual control with EMERGENCY STOP button and 10 m cable	2.6 kg
-	Manual control with EMERGENCY STOP button and 30 m cable	7.0 kg
-	Manual control with EMERGENCY STOP button and 50 m cable	13.0 kg
-	Safety bar closure	1.1 kg
-	Power distributor	8.0 kg
-	Cable drum 33 m, 3x2.5 mm ²	8.0 kg
-	Pivot arm mounting max. 60 kg (for MINI 60 S)	8.0 kg
-	Pivot arm mounting max. 150 kg (for MAXI 120 S / 150 S)	12.9 kg
-	Adapter # (for scaffolding without overlaying stud)	0.6 kg
-	Loading point protection "Simple"	29.0 kg

only for **GEDA MINI 60 S**

6 Description

GEDA MINI 60 S and GEDA MAXI 120 S/150 S

- Ideal conveyor device for use in construction.
- Light scaffolding lift in a robust aluminium frame
- Large selection of load-carrying equipment

6.1 Components and operating elements

6.1.1 Manual control

The manual control is the same for all lift elevators; it is pluggable; the cable is 10 m long.

The manual control has to two pressure points each (UP and DOWN) for the lift elevator's two levels of speed.

- 1. Pressure point = slow speed
- 2. Pressure point = fast speed

1 = EMERGENCY STOP button

2 = UP button

3 = DOWN button

4 = Hanging bracket

5 = Hanging switch unit

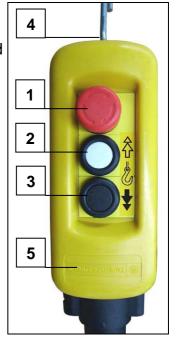
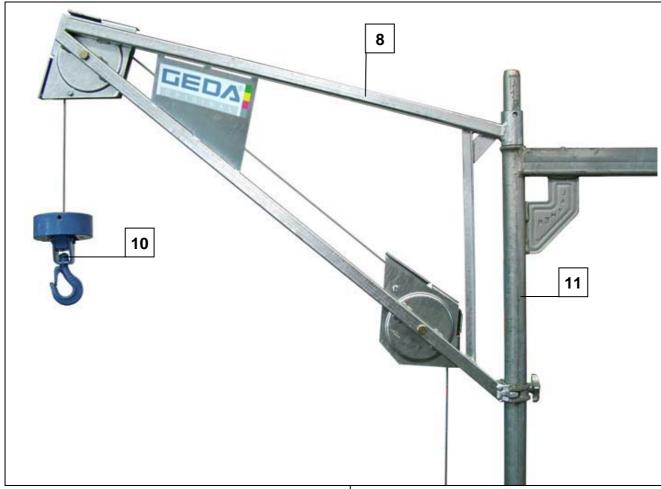


Fig. 4 Manual control

6.1.2 GEDA MINI 60 S - 60 kg bearing capacity



- 8 = Pivot arm
- 10 = Load hook
- 11 = Vertical frame (scaffolding)
 - 1 = Winch MINI 60 S
 - 2 = Cable drum with drum protection
 - 3 = Cable
 - 4 = Tilting mechanism (limit stop)
 - 5 = Plug for control
 - 6 = Feeder
 - 7 = Safety bar closure



Fig. 5 Components GEDA MINI 60 S

6.1.3 GEDA MAXI 120 S with 120 kg bearing capacity and GEDA MAXI 150 S with 150 kg bearing capacity



- 8 = Pivot arm
- 9 = Pivot arm mounting MAXI 120 S
- 10= Load hook
- 11= Vertical frame (scaffolding)
 - 1 = Winch MAXI 120 S / 150 S
 - 2 = Cable drum with drum protection
 - 3 = Cable
 - 4 = Tilting mechanism (limit stop)
 - 5 = Plug for control
 - 6 = Feeder



Fig. 6 Components GEDA MAXI 120 S/150 S

7 Transport

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

Transporting the equipment

The winch has a weight of min. 48 kg (depending on cable length and cable weight), therefore the following must be observed for the transport of the equipment:

 If a lifting device is available, it is possible to hang the equipment with the scaffolding hook in the bore holes that are provided for the safety bar closure.



Fig. 7 Lifting with a lifting device

 The equipment is handled by two persons for assembly on the scaffolding; it can be held at the grab handle and at the triangular frame. In consideration of ergonomic factors, this can by all means be expected of two people.



Fig. 8 Lifting winch onto

scaffolding

 A hand truck can be used for transport in the warehouse or at the construction site so that the equipment can be transported securely.



Fig. 9 Transporting the winch

8 Requirements for the site of installation

Mounting possibility

The winch is fastened to the lowest vertical pipe of the scaffolding (outer pipe Ø 48.3mm). The pivot arm is fastened at the desired height, or to the upper-most vertical pipe (GEDA MINI 60 S) above the winch (see Ch. 9.2.1 to 9.2.3).

8.1 Electrical connection

- A power distributor with ground fault circuit interrupter with 230 V (110V), 50 Hz and fuse 16 A slow-to-blow is necessary on-site.
- Connect a rubber hose line 3 x 2.5 mm² as a feeder directly to the power distributor without an adapter of another current consumer, in order to avoid voltage drop and thus a loss of motor power.
- Connect at 110 V, 50 Hz: 3 x 4,0 mm². Observe the national provisions of 110V connections.

NOTE

With poor power supply, unplug other potential current consumers.

 Plug in the manual control in the outlet on the motor and the network mains in the on-site power supply. - The scaffolding lift is operational.

9 Installation



The scaffolding lift must be installed according to the assembly and operation instructions under the guidance of a qualified person determined by the company!

This qualified person must be familiar with the assembly and operating instructions, have sufficient experience, and must be instructed in the dangers involved in working with the scaffolding lift.

9.1 Safety notes

- Before any installation check whether the load cable, feeder, and control with cable are in faultless condition. Do not operate the scaffolding lift if damages are present! -Immediately replace damaged parts.
- Acquaint yourself with the working environment at the place of utilization, e.g. obstacles in the work and traffic area and necessary safeguarding of the construction site from public transport.
- Observe scaffolding lift bearing capacity:
- Comply with the national accident prevention guidelines from the work protection authorities and all applicable laws and guidelines.
- Wear personal protective gear (e.g. hard hat, safety boots).
- Conveying persons is forbidden!
- Entering the load suspension device is forbidden.

9.2 Fastening possibilities

The scaffolding lifts GEDA MINI 60 S, as well as GEDA MAXI 120 S and GEDA MAXI 150 S are specially constructed for 1½ scaffolding pipe. If you should use scaffolding with other dimension, please contact your dealer or the manufacturer, who can offer you an adapter or special design.

 Mount the scaffolding lift (1) with the welded scaffolding couplings on the vertical pipe (2) of the scaffolding.

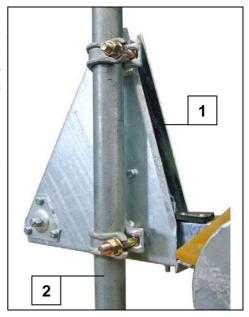


Fig. 10 Fastening tilting mechanism

NOTE

There is a pivot arm for the scaffolding lifts GEDA-MINI 60 S and GEDA-MAXI 120 S/150 S, but different pivot arm mountings, which must be used correctly for static purposes.

9.2.1 Pivot arm for the GEDA MINI 60 S

The pivot arm is only intended for mounting on the upper-most scaffolding pipe.

- Place the pivot arm (1) on the upper-most scaffolding level on the overlaying stud of the vertical frame (3) (above the winch). Use the adapter Art.-No. 1409 with scaffolding without overlaying studs. It is connected in the pivot arm (1) and projects to the pipe of the of the scaffolding.
- Rotate the pivot arm (1) toward the inside and at the star handle (2) against unscrewing.

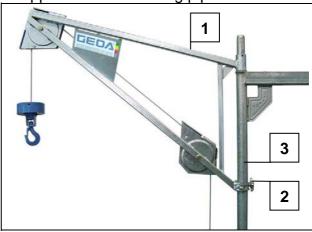


Fig. 11 Pivot arm Mini 60 S

- The vertical frame (3), on which the pivot arm hangs, must be anchored above and below to the building (compression proof and tight connection anchor 1.0kN min.) and additionally secured with cross stays.
- Uncoil sufficient cable from the winch and lead to the pivot arm (1). Feed the cable through the slot of the cable pulley and place it in the grooves on both sides of the cable pulley.
- Loosen the pivot arm locking device, pivot the pivoting arm outward and re-tighten the star handle (2).
- Hang and lift the load (max. 60 kg). During overload and starting of the cable weight against the pivot arm the winch lifts itself and switches off the upward movement.

9.2.2 Use with pivot arm mounting

The pivot arm mounting serves for fastening the pivot arm between scaffolding levels.

- Fasten the pivot arm mounting for the MINI 60 S (4) (with adjustable fastener above) on the vertical pipe (3) so that it points out from the scaffolding
- Attach the pivot arm (1) and secure by tightening the star handle (2) (The upper fastener of the pivot arm mounting is adjustable so that it can be adjusted in height in order to be able to swing inward the pivot arm (1) within scaffolding level lying above.



Fig. 12 Pivot arm mounting MINI 60 S



It must be ensured that both fasteners of the pivot arm mounting are fastened as closely as possible to the intersections of the scaffolding.

The pivot arm mounting Art.-No. 1407 (see also the type plate on the pivot arm mounting) may only be used for the MINI 60 S.

9.2.3 Universal pivot arm for the GEDA MAXI 120S/150 S

If the pivot arm is realised with reinforcement (see imprint on the pivot arm max. bearing capacity 150 kg), then the same pivot are can be used for the MINI 60 S as for the MAXI 120 S/ 150 S.



The pivot arm with reinforcement may only be used with the pivot arm mounting for the MAXI 120 S/150 S (Art. – No. 29497 see also type plate on the pivot arm mounting).

The pivot arm mounting serves for fastening the pivot arm between scaffolding levels.

- Fasten the pivot arm mounting for the MAXI 120 S/150 S (4) (with adjustable fastener above) on the vertical pipe (3) so that it points out from the scaffolding
- Attach the pivot arm (1) and secure by tightening the star handle (2) (The upper fastener of the pivot arm mounting is adjustable so that it can be adjusted in height in order to be able to swing inward the pivot arm (1) within scaffolding level lying above.
- The vertical frame (3), on which the pivot arm hangs, must be anchored above and below to the building (compression proof and tight connection anchor 1.5kN min.) and additionally secured with cross stays.

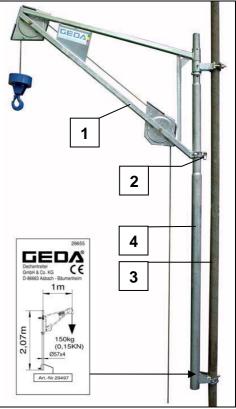


Fig. 13 Universal pivot arm MAXI 120/150 S



It must be ensured that both fasteners of the pivot arm mounting are fastened as closely as possible to the intersections of the scaffolding.

- Uncoil sufficient cable from the winch and lead to the pivot arm (1).
- Rotate the pivot arm (1) toward the inside and at the star handle (2) against unscrewing.
- Feed the cable through the slot of the cable pulley and place it in the grooves on both sides of the cable pulley.
- Loosen the pivot arm locking device, pivot the pivoting arm (1) outward and re-tighten the star handle (2).

 Hang and raise the load. During overload and starting of the cable weight against the pivot arm the winch lifts itself and switches off the upward movement.



If the cable has slackened, the loose cable must be completely uncoiled and re-tightened firmly "by hand".

9.3 Safety of the loading and unloading points

At **all** loading and unloading points in which the danger of a fall of more than 2 m exists, fall protection that prevents persons from falling must be provided. (See national provisions)

NOTE

The assembly of the "simple" fall protection from GEDA is described in particular for fall protection in the operating instructions provided (No. BL085).



Fig. 14 Safety of loading and unloading points

10 Load suspension devices



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

The bearing capacity of the load suspension device varies and engraved on each unit.

The following load suspension devices can be used together with the scaffolding lifts GEDA MINI 60 S and GEDA MAXI 120 S/150 S (see also Ch. 5):

10.1 Load hook

For transporting scaffolding parts.

NOTE

The load hook can only be connected with the load hook of the scaffolding lift by a flexible fastener flex a cable sling.

Bearing capacity: 30 kg

Weight: 0.5 kg



Fig. 15 Load hook

10.2 Cable sling

For accommodation of multiple load hooks

Bearing capacity: 30 kg

 \emptyset = 5 mm Length: 0.35 m Weight: 0.1 kg



Fig. 16 Cable sling

10.3 Hook carrier

For hanging 5 load hooks.

Bearing capacity: 150 kg

Weight: 2.3 kg



Fig. 17 Hook carrier

10.4 Hoist sling

For transporting scaffolding parts.

NOTE

There are different possibilities of accommodating the load with the hoist sling. Smooth parts that can slip through must be secured (e.g. scaffolding clamps with pipes).

Bearing capacity: 500 kg

Length: 1.5 m Weight: 0.5 kg



Fig. 18 Hoist sling

10.5 Bucket carrier for 2 buckets

For 2 round or over buckets or 1 large oval bucket

Bearing capacity: 75 kg

Weight: 4.4 kg

Measurements in cm

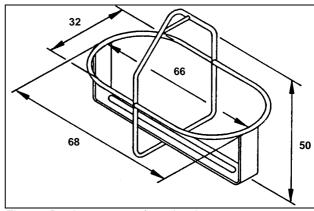


Fig. 19 Bucket support for 2 buckets

10.6 Bucket carrier for 4 buckets

For 2 or 4 round and oval buckets.

Bearing capacity: 150 kg

Weight: 9 kg

Measurements in cm

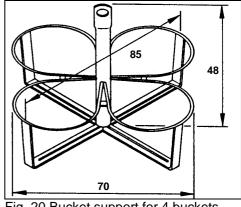


Fig. 20 Bucket support for 4 buckets

10.7 Bucket ring for 4 buckets*

- Hook cable hooks into the bores
- For hanging of 2 or 4 buckets. Only use suitable, stable buckets.

Bearing capacity: 150 kg

Weight: 4 kg

Measurements in cm

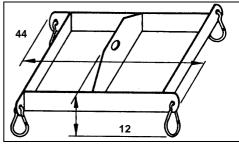


Fig. 21 Bucket ring for 4 buckets

10.8 Tilting bucket 65 Litre

• Open for secure tipping over (1) and tilt bucket.

Bearing capacity: 150 kg

Weight: 15.7 kg Measurements in cm

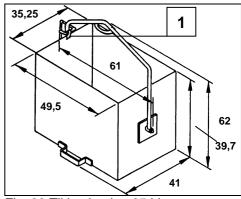


Fig. 22 Tilting bucket 65 Litre

10.9 Mortar silo 65 Litre

• Open flap with lever (1) for unloading.

Bearing capacity: 150 kg

Weight: 23.3 kg Measurements in cm

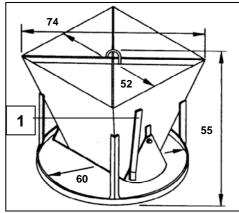


Fig. 23 Mortar silo 65 Litre

10.10 Lifting gear for wheel barrows

Bearing capacity: 150 kg

Weight: 4 kg

Measurements in cm

Safety measures

Shorten the chain of the wheel suspension so that the wheel barrow hangs level.

The safety latch on the load hook must be closed!

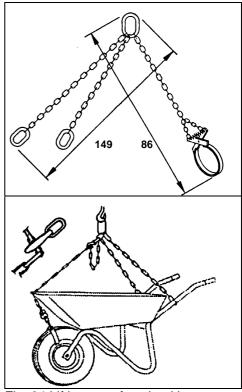


Fig. 24 Lifting gear for wheel barrows

10.11 Stone basket with wooden palette

Loading

- Stack the load on the palette (1).
- Lift the safety (2), pull the lever (3) outward.
- Put the basket over of the load until it sits on the palette (1).
- Turn the lever (3) down and slide the safety (2) downward.

Unloading

- Lift the safety (2), pull the lever (3) outward.
- Lift the stone basket from the load.
- Palette (1) entladen.

Bearing capacity: 150 kg

Weight: 20,7 kg

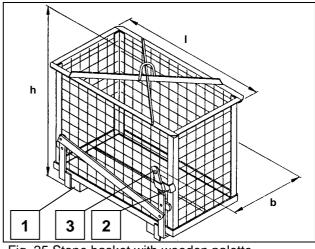


Fig. 25 Stone basket with wooden palette

Inside measurements (cm) measurements (cm)

Outside

10.12 Hoisting cage with wooden palette

Loading

- Stack the load on the palette (1).
- Lift the safety (2), pull the lever (3) outward.
- Put the cage over of the load until it sits on the palette (1).
- Turn the lever (3) down and slide the safety (2) downward.

Unloading

- Lift the safety (2), pull the lever (3) outward.
- Lift the hoisting cage from the load.
- Unload palette (1).

Bearing capacity: 150 kg

Weight: 37.6 kg

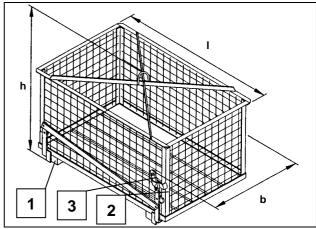


Fig. 26 Hoisting cage with wooden palette

Inside measurements (cm) measurements (cm)

Outside

10.13 Slab grab

- Hook the cable hook onto the ring (1) During lifting the slabs are held by the arms (2).
- While unloading release the cable so that the arms (2) can be pivoted by min. 90°.
- Depending on the width of the slab the slab grab can be adjusted in height. For this removed the screws (3) (always fasten the upper part with the lower part with 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.

Bearing capacity: 150 kg

Weight: 24.2 kg Measurements in cm

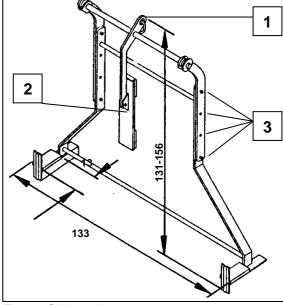


Fig. 27 Slab grab

11 Operation

11.1 Safety notes



The scaffolding lift may only be operated by qualified personnel determined by the employer. This qualified person must be familiar with the assembly and operating instructions, have sufficient experience, and must be instructed in the dangers involved in working with the scaffolding lift.

Operating personnel (see Ch. 3)

- The lift is to be operated from outside the danger zone.
- Before starting work at the place of utilization, 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 recognizable damages and defects. Immediately report any changes or malfunctions determined to the company management or his/her authorized representative. If necessary, shutdown and secure the scaffolding lift immediately.
- Secure the scaffolding lift thoroughly against unauthorized access! At the end of work/breaks, etc. do not leave the manual control lying around.
- Never leave the scaffolding lift with a hanging load. First unload and/or put down the load suspension device.
- Observe national accident prevention guidelines and/or workplace guidelines.
- Constantly observe the hanging load 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!
- Also observe the safety notes in Chapter 4

11.2 Impermissible modes of operation

- Exceeding the max. bearing capacity.
- One-sided loading of the load suspension device.
- The load platform or load suspension device must not be up at the end of work.
- · Working with defective or missing cable hook safeguarding.
- The lift operation must cease with:
- Wind speeds of over 72 km/h (= wind force 7-8; stormy winds).
- Temperatures below –20°C.
- Damage or other faults.
- missing reoccurring check (see Ch. 4.3.1).





11.3 Operate scaffolding lift

The scaffolding lifts GEDA MINI 60 S and GEDA MAXI 120/150 S have two levels of speed, whereas the slow level is provided mainly for commencing the lifting or sinking movement without jolts. For the most part the equipment should be operated in the fast level. It is also possible to stop more smoothly using the first speed level. The control switch accordingly has two pressure points.

NOTE:

If the upward travel was automatically switched off because of an accumulation of slack in the cable, then the upward travel is only released after the cable was manually tightened.

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

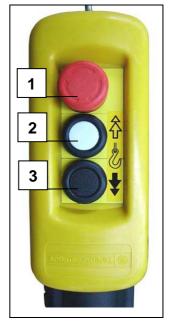


Fig. 28 Manual control

NOTE

If the pivot arm lift should be operated from above, then it is possible by plugging in manual controls with long cables of 28m or 53m (accessories). It must be ensured that the hanging load can always be observed from the operating position.

12 Dismantling (disassembly)



The scaffolding lift must be disassembled according to the assembly and operation instructions under the guidance of a qualified person determined by the company!

This qualified person must be familiar with the assembly and operating instructions, have sufficient experience, and must be instructed in the dangers involved in working with the scaffolding lift.

The same regulations and safety notes as described in Ch. 9 apply for dismantling. Also make sure 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 cable) occur that endanger operational safety!

Check the following if there are faults:

- Mains supply plugged in?
- Fuses in the building site main cabinet? (16 A, slow-blowing)
- Correct extension cable? Wire cross section at least 3x2.5 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 the drive.
- With the MINI 60 S disconnect the equipment, remove the motor covering (3 screws SW 10). Fuses 1 x 63mA slow-blowing and 1 x 250mA slow-blowing.
- With the MAXI 120 S/150 S disconnect the equipment and loosen the screw cap on the triangular plate of the tilting mechanism. Fuse 1A slow-blowing.

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 drive motor and the control. Work can continue after a certain cool-off period.

ATTENTION

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

Faults with the cable winding

- Cable only winds one way on the drum.
- Does the boom hang vertically from above the winch (the same scaffolding support)?
- Is the scaffolding support, on which the winch is hanging, vertical?
- If necessary re-align the equipment.
- The drive is set at the factory with an inclination of approx. 0.5°. If, however, the cable should not unwind satisfactorily, this setting must be checked.
- Is the appropriate cable length for the construction height on the reel?
- The slack cable switch (rotating guard) switches off during the ascent.
- Is the hook weight attuned to the cable length? (additional weight necessary with 80m cable)
- Does the cable run vertically upward from the drum?

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 damages.
- · Check hoist-cable for damages 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 run of the load platform is free.
- Are the upper/lower limit switches functioning?

14.2 Weekly inspection/maintenance

- Clean dirt off scaffolding lift.
- Keep work area around lift clear and clean.
- Check the cable for damages and wear (e.g. stranded wire breaks, pinched points) and corrosion (see DIN 15020 Part 2), if necessary change the cable (Chapter 14.5).
- Check fasteners for firm seating, tighten as 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 quantity = 160 g with MINI 60 S
- Grease quantity = 500 g with MAXI 120 S/150 S
- Recommendation: DIVINOL, ARAL-Lub FD 00, BP-Energrease HTO, ESSO-Fibrax 370
- Dispose of old lubricant in an environmentally-friendly manner.

14.5 Cable change

14.5.1 Cable change at the cable drum

- The cable cylinder on the drum guard must be unscrewed so that the cable drum is more easily accessible.
- Pull out cable until the last two coils unwind.
- Loosen the cable clamp by loosening the central screw (4) in the main shaft.
- Then pull the cable out of the clamping point (3), then from the drum feedthrough (1) (recoil the cable so that it relaxes).

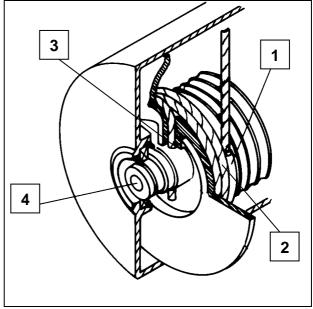


Fig. 29 Cable change at the cable drum

Clamping

- Then put the cable through the tangential bore (1) of the drum (see Fig 29).
- Push the cable approx. 1 meter through so that you can place it in the last two outer cable grooves (2).
- The cable is now inserted in the bore of the clamping point (3) until it is visible in the control bore (on the front side of the drum guard).
- Clamp the cable in the shaft with the screw (4).
- Pull both loose cable coils (2) tight.
- Reassemble the cable cylinder.
- Coil the cable cleanly on the drum.



Measure sufficient cable length, because the last two coils must always remain on the cable drum.

14.5.2 Cable change at the cable weight

- Loosen the cable clamping screw (1) and pull the cable out of the bore on the side of the cable weight.
- Remove a screw (2) on the swivel (3) and fold it to the side.
- Recoil the cable cotter (4).
- Lead the new cable in from above through cable weight (5), make a loop, lead the cable end and horizontally through the bore.

NOTE

Do not let the cable overlap in the area of the cable weight (5).

• Firmly clamp the cable end with the clamping screw (1) (Hexagonal socket size 3).

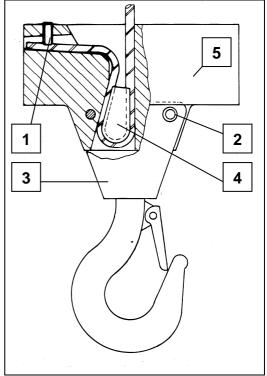


Fig. 30 Cable change at the cable weight

- Place the cable cotter (4) in the loop and pull the cable back in the centre until the cable cotter is firmly seated.
- Fold the swivel (3) back and re-fasten with the screw (2).

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 winch.

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 services addresses:



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

16 Disposal of the scaffolding lift

Professionally dismantle the scaffolding lift at the end of its service life and dispose of according to national provisions.

Observe the following when disposing of the scaffolding lift:

- 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 of the scaffolding lift 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

In terms of the EC Machinery Directive 2006/42/EC, Appendix II Section 1. A

Manufacturer and address: GEDA-Dechentreiter GmbH & Co.KG

Mertinger Str. 60

D-86663 Asbach-Bäumenheim Telephone + 49 (0)9 06 / 98 09-0

Email: info@geda.de

Product name: Scaffolding lift

Type: GEDA® MINI 60 S

Serial No.15000

GEDA® MAXI 120 S Serial No.11102

GEDA® MAXI 150 S Serial No.10969

Year of manufacture:

We hereby declare that the subsequently named device is suitable for conveying materials on construction sites. The specific model entered into commerce by us conforms to the pertinent, fundamental health and safety requirements of the EC Machinery Directive 2006/42/EC.

A scaffolding lift is a construction winch with electric motor for temporary use on construction sites. Different fixtures and load carrying devices are available (see operating manual).

This declaration becomes null and void if any modifications are made to the unit, which have not been approved by us.

The machine also meets the provisions of the following EC directives

EMC Directive (2004/108 EC)

Noise Emission Directive (2000/14/EC)

Angewandte harmonisierte EN ISO 12100-1 und EN ISO 12100-2;

Normen: EN 60 204-1

Angewandtes In-house quality assurance according to 2000/14/EC

Konformitäts- Appendix V

bewertungsverfahren:

Measured sound capacity

level (L_{WA}): 75 dB(A)

Guaranteed sound

capacity level (L_{WA}): 77 dB(A)

18 Appendix for entering reoccurring inspections

Inspection findings	
	Date and signature of the tester
	3
Inspection findings	Date and signature of the tester

GED& MINI 60 S / MAXI 120 S / 150 S **Inspection findings** Date and signature of the tester **Inspection findings** Date and signature of the tester

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