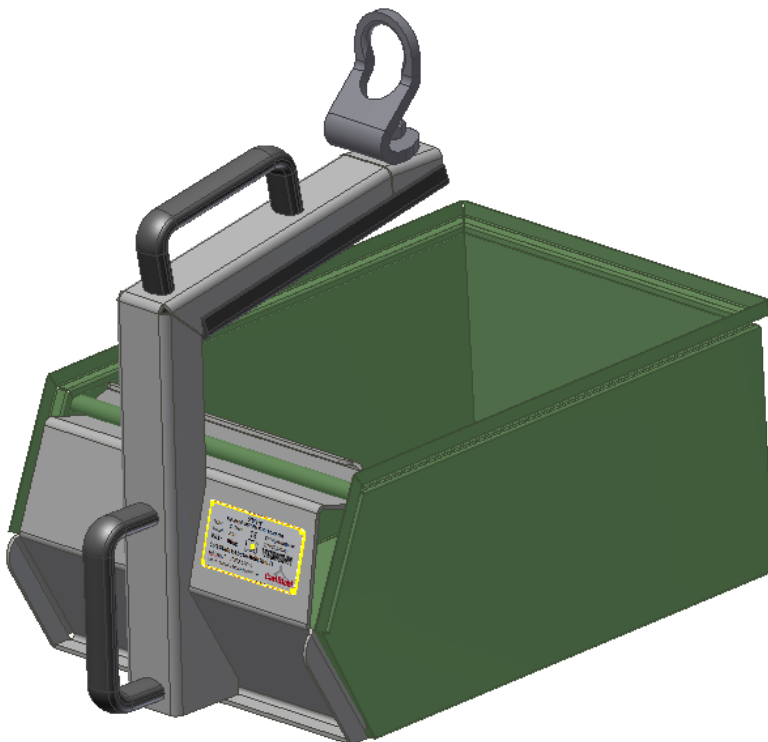


Instruction Manual

Open Fronted Storage Bin Grab

Type CGSG80



Carl Stahl Hebeteknik GmbH
Tobelstraße 2
73079 Sößen

Phone hotline:
0800 – 2442441-01

Fax hotline:
0800 – 2442441-02

E-Mail:
carlstahl@carlstahl.com

Internet:
www.carlstahl-hebetechnik.de

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1. Introduction

The CGSG80 open fronted storage bin grab is used for vertical lifting and lowering of unguided loads.

Before you use the CGSG80 open fronted storage bin grab for the first time, read through the operating instructions completely. The operating instructions explain how to safely use, maintain, inspect and dispose of the CGSG80 open fronted storage bin grab. This manual is an integral part of the product and must be available to all users. Keep the operating instructions for reuse. In the following, the CGSG80 open fronted storage bin grab is referred to as the bin grab.

1.1 Manufacturer/ Service

Carl Stahl Hebetchnik GmbH

Tobelstraße 2
73079 Süßen

Phone hotline

0800 – 2442441-01

Fax hotline

0800 – 2442441-02

E-Mail

carlstahl@carlstahl.com

Internet

www.carlstahl-hebetechnik.de

**INFO**

We are pleased to answer any questions you may have about your product.

1.2 Terms and Conditions

The general terms and conditions can be obtained directly from the manufacturer or at:
www.carlstahl-hebetechnik.de/downloads/

1.3 EU Declaration of Conformity

Reproduction of content:

For the product described below

Designation:	CondorGrip open fronted storage bin grab
Type:	CGSG80

it is hereby declared that it complies with the **essential requirements** laid down in the harmonization legislation referred to below:

DIRECTIVE 2006/42/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 17 May 2006 on machinery and amending Directive 95/16/EC (recast) - in short: **Machinery Directive**

Indication of the relevant harmonized standards used or of the specifications for which conformity is declared:

Reference	Issue date	Title
Harmonized standards for the Machinery Directive:		
DIN EN ISO 12100 + Corrigendum 1	2010-11 2013-08	Safety of machinery - General principles for design - Risk assessment and risk reduction
DIN EN 13155	2009-08	Cranes - Safety - Loose load handling attachments
Other technical specifications applied (not published in the EU Gazette):		
DIN ISO/TR 14121-2 DIN SPEC 33885	2013-02	Safety of machinery - Risk assessment - Part 2: Practical guide and examples of processes

Authorized representative within the meaning of Annex II, point 1.A. No. 2, 2006/42/EC for the compilation of the technical documentation:

firm	Carl Stahl Hebe-technik GmbH
address	Tobelstr. 2 D-73079 Süßen

The sole responsibility for drawing up this declaration of conformity in relation to the fulfilment of the essential requirements and the preparation of the technical documentation lies with the manufacturer (or installing company):

Company	Carl Stahl Hebe-technik GmbH
Address	Tobelstr. 2 D-73079 Süßen

delivered by:

Name, first name	Schwenger, Wolfgang
Function	Managing Director

This declaration certifies compliance with the mentioned harmonization legislation but does not include any assurance of characteristics.

Additional information:

This declaration shall apply to all specimens manufactured in accordance with the appropriate manufacturing drawings which are an integral part of the technical documentation. Further information on compliance with the above references can be found in the accompanying documentation supporting the statement of conformity.

The full Declaration of Conformity has been attached as a separate document.

2. Information Processing

These operating instructions contain symbols, designations, instructions and enumerations as described in chapters 2.1 to 2.2.

2.1 Symbols and Designations

Warnings

The warnings are classified and presented as follows:



DANGER

A warning with the signal word "DANGER" indicates a hazard that can lead directly and safely to death or serious permanent injuries.



WARNING

A warning with the signal word "WARNING" indicates a hazard that may result in serious injuries or death.



CAUTION

A warning with the signal word "CAUTION" indicates a hazard that may result in minor to moderate injuries.

ATTENTION

A warning with the signal word "ATTENTION" indicates a hazard which may lead to damage to property.

In a **warning notice**, action steps are marked with ► and structured chronologically.

Pictograms for specific hazards



Meaning:

Warning of floating load.



Meaning:

Warning of danger of crushing.



Meaning:

Warning of hand injuries.

The pictograms are used in conjunction with the corresponding classification and the corresponding signal word.

Useful information and tips



INFO

The symbol indicates useful information and tips.

Disposal



NOTE ON DISPOSAL

of packaging materials and load handling equipment.

2.2 Handling Instructions and Enumerations

All action instructions are structured and numbered in chronological order, e.g.:

1. Step 1
2. Step 2

The result of an action is indicated by an arrow:

- Result or device reaction

Instructions that do not have to be executed in a particular sequence are marked as follows:

- Action step
- Action step

The result of an action is indicated by an arrow:

- Result or device reaction

Enumerations are indicated by arrows and dashes:

- ▶ Enumeration
- Enumeration

3. Safety

Before using the bin grab, read the following safety instructions carefully.

Chapters 3.1 to 3.3 contain basic rules of conduct which you must observe when handling the bin grab. The instructions marked with a  symbol must be followed to avoid danger to persons. Warnings that belong to the individual action instructions are always listed before the respective action step.

3.1 Basic Safety Instructions

The bin grab is built, tested and has left the company in a technically safe condition. To maintain this condition, you must follow the instructions in this operating manual.

- Read these operating instructions completely;
- Observe the warning and safety instructions;
- Make sure that these operating instructions are always available on site;
- Please note that only suitable specialist personnel work with and on the crate grab (see Table 1);
- When using the machine, observe the locally applicable occupational safety obligations and the operator's operating instructions;
- Observe the local conditions;
- Observe the maximum load capacity;
- Note the dead weight of the open fronted storage bin, this must be added to the load:

Own weight + load weight = total weight

► **Consider the weight of all components in relation to the maximum load capacity of the bin grab.**

- Damage that impairs safety must be repaired immediately;
- Carry out all work with utmost care;
- Wear your personal protective equipment;
- Tie long hair together;
- Do not wear loose clothing, rings, chains or other jewelry;
- Never stay under a suspended load, that is forbidden;
- Never open a load handling attachment under load;
- Only use the bin grab with a clearly legible type plate;
- Pay attention to the inherent stability and condition of the storage box;
- Only use suitable storage boxes, in particular make sure that the load capacity of the storage boxes meets the requirements;
- When selecting the crane, note the additional dead weight of the storage box and the bin grab!

Own weight of bin grab + own weight of storage box + load weight = total weight

► **Consider the total weight of all components in relation to the maximum load capacity of the crane!**

Classification of the qualification areas for load handling equipment

Field of activity	Qualification	Expertise
Delivery and Transport	Retailer, forwarder	– Proof of load securing instruction – Safe handling of load handling equipment
Storage	Storekeeper	– Safe handling of load handling equipment
Commissioning, maintenance and repair	Qualified personnel	– Qualified person: professional education and experience, sufficient knowledge of load handling equipment. – Safe handling of load handling equipment – Product specific knowledge
Operation, simple visual inspection	Qualified personnel	– Safe handling of load handling equipment, professional education and experience
Disposal	Qualified personnel	– Knowledge of the regulations for proper disposal and reuse

Tab1. Overview

3.2 Intended Use

The following points belong to the intended use:

- Vertical lifting and lowering of unguided loads
- Observe the permissible load capacity: **Own weight of the individual components + load weight;**
- The temperature range from 0 °C to + 80 °C;
- Only for indoor use and storage only;
- The even distribution of the load;
- Designed for a maximum of 20,000 load changes, the number of load changes is reduced depending on the external conditions.

In addition to the points listed here, further information must be noted and taken from the technical data (chapter 4).

3.3 Unintended Use

The following points belong to an unintended use:

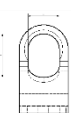
- Exceed the maximum load capacity;
- The carriage of persons and animals;
- The transport of liquids and hazardous substances;
- The diagonal pull and the asymmetrical load;
- Tearing loose stuck loads;
- Constructive changes;
- When people stay under a suspended load;
- In explosive, salty, corrosive and/or alkaline environments;
- Pulling loads on the ground;
- Use of unsuitable or defective storage boxes
- Outdoor use and storage.

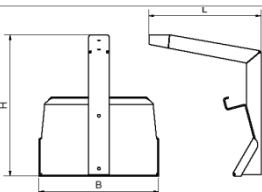
Chapter 3.3 does not guarantee completeness. Anything that is not expressly permitted is considered to be unintended use.

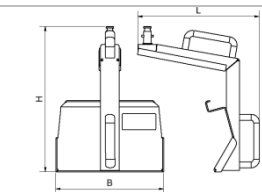
4. Technical Data

Designation:	CondorGrip open fronted storage bin grab
Type:	CGSG80
Execution:	Optionally with eyelet or Demag DSM5

General information	Designation	Specification/unit
	Number of load cycles	Maximum 20.000
	Permissible inclination	Maximum 6 °
	Surface texture	Galvanized
	Carrying capacity	80kg
	Dead weight	4kg
	Operating and storage temperature range	From 0 °C to + 80 °C

Dimensions crane connection	Designation	Specification/unit
With eyelet 	Maximum height (inside dimension)	49mm
	Maximum width (inside dimension)	35mm
	Maximum depth	8
With DSM5 	Diameter	20mm
	Height	45mm

Dimensions main body	Designation	Specification/unit
	Total width	290mm
	Total length	272mm
	Total height	343mm

Dimensions	Designation	Specification/unit
	Total width	290mm
	Total length	326mm
	Total height with eyelet	440mm
	Total height with DSM5	392mm

Tab2. Technical data

5. Delivery and Transport

5.1 Scope of Delivery

Check the delivery for completeness.

Quantity	Articles	Article number
1	Open fronted storage bin grab CGSG 80	25303000036364 version with eyelet 25303000036503 version with DSM5
1	Original instruction manual	
1	Declaration of conformity	
1	Inspection document	

Tab3: Scope of delivery

If parts are missing or damaged, contact the manufacturer/retailer (chapter 1.1).

5.2 Transportation

The bin grab is tested, inspected and properly packaged before delivery.

Always transport the bin grab on a suitable transport system.

5.3 Storage

ATTENTION

Equipment damage due to improper storage!

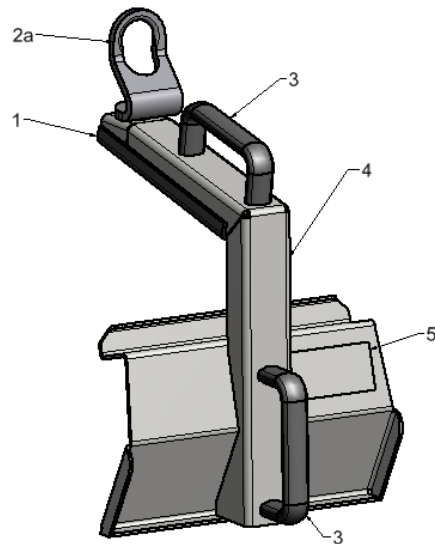
Improper storage can damage the bin grab.

- ▶ Store the bin grab on suitable storage systems.
- ▶ Store the bin grab in a clean and dry indoor place.
- ▶ Protect the bin grab from damage:
 - Temperature influences that fall below or exceed the permissible temperature range (see chapter 4).
 - Moisture
 - Soiling
 - Damages
 - Corrosion

6. Structure and Function

The bin grab essentially consists of the following components:

Ausführung mit Aufhängeöse



Ausführung mit DSM5

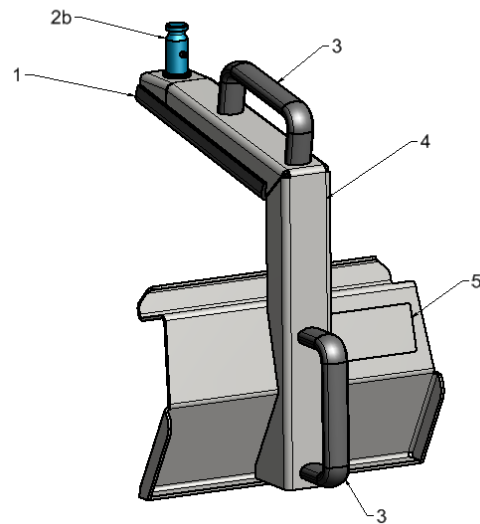


Fig.: Open fronted storage bin grab CGSG

Position	Designation	Function
1	Edge protector	Impact protection on box contents
2a	Suspension eyelet with bearings	Crane connection with hook
2b	DSM5 with bearings	Crane connection with Demag Manulift
3	Grips	Guiding the gripper / load
4	Main body	Load absorption
5	Nameplate	

Tab4: Components

7. Usage

7.1 Inspection before Usage

A test must be carried out before each use. You must carry out the test before the first use (first commissioning), before each recurring use or after a repair.

The purpose of the test is to ensure that the bin grab is in good condition and ready for use.

The exact details of the respective tests can be found in the maintenance/test schedule. Please refer to chapter 8, in particular chapter 8.3 - 8.5.

Before you use the storage bin grab, you must note the following:



DANGER

Danger to life due to load crash!

A load fall can result in serious injuries or death.

- ▶ Never stay under a suspended load.
- ▶ Never walk under a suspended load.
- ▶ Ensure that there is sufficient working space.
- ▶ Ensure that there are no persons in the work area.
- ▶ Only use suitable storage boxes that have been tested and approved for use.



WARNING

Risk of crushing due to lack of space!

There is a risk of crushing due to insufficient spacing at the load pick-up point, on the load transport route and at the load unloading point.

- ▶ Check your working environment.
- ▶ Ensure sufficient space at the load lifting point, on the load transport route and at the load unloading point.

7.2 Attaching the Bin Grab to the Crane Side

Proceed as follows to attach the bin grab to the crane side:

1. Position the crane hook or the Demag Manulift vertically above the bin grab.
- 2a. With eyelet: Hook the crane hook into the suspension eyelet.
 - Crane hook safety catch engages.
- 2b. With DSM5: Fix the Manulift to the bin grab
 - Please refer to the Manulift user information.
3. Check the crane hook safety catch or the correct seating of the Manulift.
4. Lift the bin grab slowly and carefully.

7.3 Lifting, Transporting and Lowering the Load



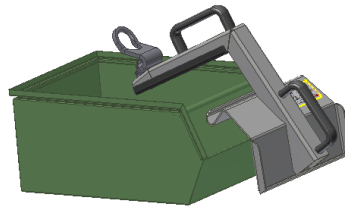
DANGER

Danger to life due to load crash!

The use of unsuitable or defective storage boxes can lead to a load crash and to injuries or death.

- ▶ Only use suitable storage boxes which have been tested for use.
- ▶ Check the storage boxes for damage before use.

1. Position the bin grab in front of the storage crate
2. Tilt the bin grab forwards



CAUTION

Risk of injury due to incorrect handling!

Incorrect use may result in bruising of the fingers or hands.

- ▶ Always hold the bin grab by the operating handle



DANGER

Danger to life due to load crash!

If the bin grab does not fit properly in the storage box, this leads to instability and a load crash can occur.

- ▶ Always position the bin grab precisely in the storage crate.

3. Place the bin grab under the rod of the storage box

5. Lift the bin grab slowly

- The bin grab connects positively to the storage crate

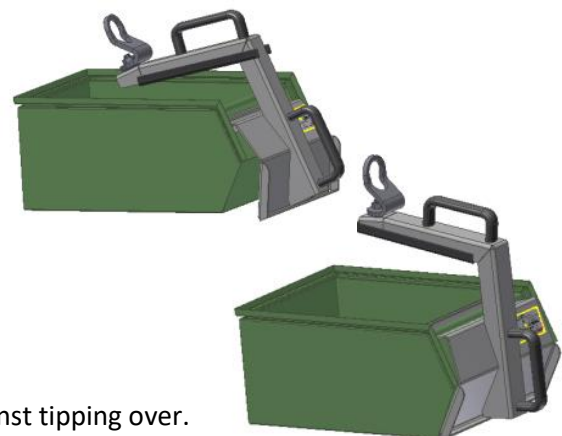
5. Lift the storage box slowly and carefully.

6. Transport the load to the desired load unloading point.

7. Lower the load slowly and carefully until the load is secure against tipping over.

8. Lower the bin grab further and tilt it forwards.

9. Remove the storage bin grab from the load.



8. Maintenance

A load handling attachment must be cleaned, maintained and checked regularly. The maintenance/test intervals can be found in the maintenance/test schedule.

8.1 Cleaning



INFO

Regular cleaning and careful handling ensure that the storage bin grab remains in place for the entire life cycle.

Component	Cleaning criteria	Actions
Main body/suspension	The contact surfaces must be clean	Clean contact surfaces
Storage of suspension	The bearings must be smooth-running	Clean and lubricate stiff bearings

Tab.: Cleaning

8.2 Inspection Document

The test document serves as proof of the tests performed. In addition, all the deficiencies noted must be rectified and the evidence provided presented to the authorities where necessary. The test document below is only an example. The original test document was attached as a separate document.

Hersteller/Manufacturer Carl Stahl Hebetchnik GmbH Tobelstr. 2 73079 Sülzen		Kunde/Customer		
Prüfdokument für Lastaufnahmeeinrichtungen		Inspektion document for load lifting appliances		
Bezeichnung Sichtlagerkasten-Greifer CGSG80		Description		
CS-Artikel-Nr./ CS-Item-No. 25303000036364	Kunden Bestell-Nr./ Customer-No.	CS-Auftrag-Nr./ CS-Order-No.	CS-Fertigungs-Nr./ CS-Manufacturing-No.	
Zeichnung-Nr./ Drawing-No. 25303000036364	Identifikationsnummer/ Identification Number	Baujahr/ Year of Manufacture		
Tragfähigkeit/ load capacity 80kg	Krananbindung/ Crane Connection	Einsetztemperatur/ operating temperature	Eigengewicht/ Dead Weight 4kg	
Werksabnahme Hiermit wird bescheinigt, dass die hier beschriebene Sichtlagerkasten-Greifer CGSG80 nach der DIN EN 13155:2009 geprüft wurde und diese im vollen Umfang bestanden hat.		Factory Approval This is to certify that the Sichtlagerkasten-Greifer CGSG80 described here according to DIN EN 13155:2009 has been tested and it has passed the full extent.		
Prüfdatum/ Test Date	Prüfresultat/ Test Result Bestanden/ Passed	Unterschrift/ Signature		
Prüfung vor der Erstinbetriebnahme Die Prüfung vor der Erstinbetriebnahme wurde durchgeführt und es wurden keine Mängel festgestellt.		Testing before the Initial Operation The test before the initial operation was carried out and no defects were detected.		
Prüfdatum/ Test Date	Prüfresultat/ Test Result	Unterschrift/ Signature		
Wiederkehrende Prüfungen		Periodic Inspections		
Prüfdatum/ Test Date	Prüfresultat/ Test Result	Unterschrift/ Signature		

Fig.: Inspection document

8.3 Maintenance/Test Plan

Maintenance/test interval	Activity
Before first use (first commissioning)	– Visual and functional testing
Before each recurring use of the storage bin grab without extraordinary incidents	– Visual inspection
Annual	– Visual and functional testing
Extraordinary inspection	– Depending on external conditions, the annual audit cycle may be shortened. This includes the following points: – After damage, repair or special occurrences, – continuous operation in shift operation, – increased wear, – corrosion, exposure to heat due to environmental influences, – etc.

Tab.: Maintenance/test plan

8.4 Test Criteria

The test criteria in the following table are used to determine the discard maturity of the storage bin grab. The basic value, indicated in mm, can be found in the technical data (see chapter 4).

Component	Test Criteria	Actions
Suspension eyelet	Any kind of deformation and wear	Decommissioning and contact manufacturer/service
Main body	Any kind of deformation and wear	Decommissioning and contact manufacturer/service
Nameplate	Any kind of deformation and wear	Decommissioning and contact manufacturer/service

Tab.: Test criteria

8.5 Visual and Functional Testing

The bin grab must be inspected and tested before each use. The tables on page 15 list criteria that may require you to take the bin grab out of service.



DANGER

Danger to life due to load crash!

Deformation and wear of the individual components can reduce the load carrying capacity and lead to a load crash.

- ▶ Check the bin grab for defects.
- ▶ Check to what extent the individual components are functional.
- ▶ The bin grab is taken out of operation by marking if it is no longer functional and irreparably damaged (see chapter 9.1.).
- ▶ If necessary, contact the manufacturer/service (see chapter 1.1).
- ▶ If necessary, dispose of the bin grab (see chapter 9.2).

Visual Inspection

1. Check the bin grab for visual defects such as:
 - Cracks,
 - Deformation,
 - Wear,
 - Completeness
2. Take the bin grab out of operation if the bin grab is defective.

Functional Test

1. Check all moving parts for ease of movement.
2. Check the functionality of the bin grab. Take the bin grab out of operation if its function is impaired.

9. Decommissioning and Disposal

9.1 Decommissioning

1. Take the bin grab out of operation by marking it.
2. Contact the manufacturer/service (see chapter 1.1).
3. If necessary, dispose of the storage bin grab.

9.2 Disposal

Disposal

**NOTE ON DISPOSAL**

If the storage bin grab is no longer repairable or functional, the storage bin grab must be disposed of in accordance with the applicable legal regulations.

Disposal of packaging material

**NOTE ON DISPOSAL**

Under the Packaging Ordinance, the retailer is obliged to take back the packaging of his products that do not bear the sign of a system of comprehensive disposal (such as the Green Dot of the Duales System Deutschland AG) and to ensure that it is reused or disposed of.
