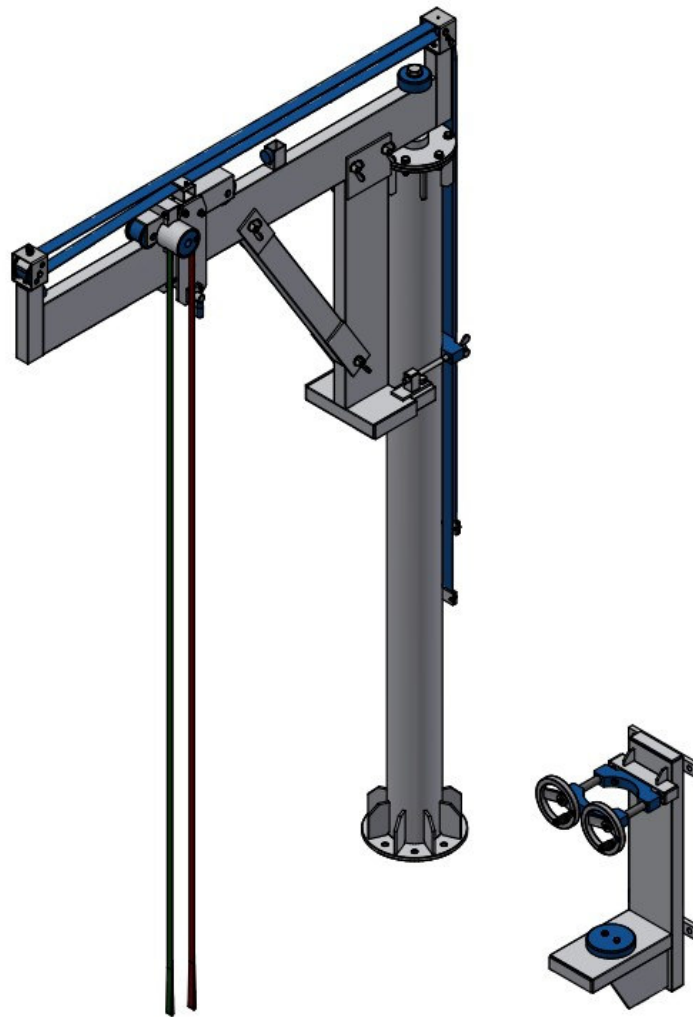


Aluminium Slewing Crane

Sample Manual (June 2026)



USER INFORMATION

The assembly, operating, and maintenance instructions for SCHILLING products must always be followed.
Users and/or their personnel must read the instructions thoroughly and fully understand them before
using the product.

Keep this user information for future reference!



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1 Introduction

- ▲ The aluminium slewing crane is designed for lifting, lowering, and slewing loads.
- ▲ This user information forms an integral part of the product and shall be considered as part of the overarching risk assessment and handling instructions for all lifting and load-handling operations.
- ▲ This user information shall be available to all users at all times.
- ▲ Please read this user information carefully before using the product.
- ▲ This user information describes the safe assembly, operation, maintenance, repair, disassembly, and disposal of the product.
- ▲ In addition to these instructions for use, all occupational health and safety regulations applicable in the country and environment in which the product is used, as well as all other relevant general regulations, must be strictly observed to ensure safe and proper use.
- ▲ Images and illustrations in this user information may differ from the actual product supplied.
- ▲ Unauthorized modifications to the product, as well as the use of self-fabricated auxiliary equipment, are prohibited.

1.1 Manufacturer



1.2 Terms and Conditions

- ▲ In the case of direct sales, the general terms and conditions may be obtained from the manufacturer or via their website.
- ▲ If the device has been purchased through an intermediary, please contact your distributor or salesperson.

2 Presentation of Information

This document uses symbols, terminology, instructions for use, and enumerations as described in Chapters 2.1 and 2.2 below.

2.1 Symbols and terminology

Safety instructions

Safety instructions are classified and presented as follows:

HAZARD

A safety instruction designated as “HAZARD” indicates a risk that will directly and inevitably result in death or severe, permanent injury.

WARNING

A safety instruction designated as “WARNING” indicates a risk that may result in severe injury or death.

CAUTION

A safety instruction designated as “CAUTION” indicates a risk that may result in minor to moderate injury.

NOTE

A safety instruction designated as “NOTE” indicates a risk that may result in material damage.

Useful information and tips



INFO

This symbol denotes useful information and practical tips.

Disposal



INFORMATION FOR DISPOSAL

of packaging materials, lifting devices, etc.

2.2 Instructions for Use and Enumerations

All instructions for use are presented in chronological order and numbered, for example:

1. Step 1
2. Step 2

Outcomes of actions are indicated by an arrow:

- Outcome or device response

Instructions for use that do not have to be carried out in a particular sequence are indicated as follows:

- Step
- Step

Outcomes of actions are indicated by an arrow:

- Outcome or device response

Enumerations are indicated by indents:

- Enumeration

3 Declaration of Conformity

3.1 EC Declaration of Conformity

Pursuant to the EC Machinery Directive 2006/42/EC, Appendix II A

We hereby declare that the machine described below complies, in its design and construction and in the version supplied by us, with the general health and safety requirements of EC Directive 2006/42/EC. This declaration shall become invalid if the machine is modified without our prior approval.

Manufacturer:

SCHILLING Kran- und Hebertechnik GmbH
Ernst-Zimmermann-Str. 9-11
88045 Friedrichshafen
Deutschland
Telefon: +49 (0) 7541 60404-0



Description and Identification of the Machine:

Designation: Aluminium Slewing Crane
Item Number: **Sample Manual**
Serial Number:
Load Capacity:
Year of Manufacture:

Applied harmonised standards, in particular:

- DIN EN 13001-1:2015 – Cranes – General Design – Part 1: General Principles and Requirements
- DIN EN 13001-2:2021 – Cranes – General Design – T2 Load Actions
- EN 13155:2003+A2:2009 – Cranes – Safety - Non-Fixed Load Lifting Attachments
- EN 16851:2017+A1:2020 – Cranes – Light Crane Systems

Signature:

Martin Schilling – Managing Director

Date:

Authorized person for Documentation: Danny Büdinger – Technician (mechanical technology)

3.2 UK Declaration of Conformity

Supply of Machinery (Safety) Regulations 2008: Great Britain

We hereby declare that the machine described below complies, in its design and construction and in the version supplied by us, with the general health and safety requirements of the Supply of Machinery (Safety) Regulations 2008: Great Britain.

This declaration shall become invalid if the machine is modified without our prior approval.

Manufacturer:

SCHILLING Kran- und Hebertechnik GmbH
Ernst-Zimmermann-Str. 9-11
88045 Friedrichshafen
Deutschland
Telefon: +49 (0) 7541 60404-0



Description and Identification of the Machine:

Designation: Aluminium Gantry Crane
Item Number: **Sample Manual**
Serial Number:
Load Capacity:
Year of Manufacture:

Applied harmonised standards, in particular:

- BS EN 13001-1:2015 – Cranes - General design - Part 1: General Principles and Requirements
- BS EN 13001-2:2014 – Crane Safety - General design - Part 2: Load Actions
- BS EN 15011:2011 – Cranes - Bridge and Gantry Cranes
- BS EN 1999-1-1:2007+A2:2013 – Design of Aluminium Structures – General Structural Rules

Signature:

Martin Schilling – Managing Director

Date:

Authorized person for Documentation: Danny Büdinger – Technician (mechanical technology)

4 Safety

Please read the following safety instructions thoroughly before putting the product into operation.

Chapters 4.1 to 4.3 outline the general rules of conduct to be observed when handling the product.

Instructions in the subsequent chapters marked with a  must be followed to prevent risks to persons and property. Safety notes related to specific instructions are provided before the corresponding step and must be strictly observed.

4.1 General Safety Notes

- Please read this user information carefully before using the product.
- Observe all safety notes.
- This user information shall be available to all users at all times.
- The product shall be operated only by suitably qualified personnel (see Table 1).
- In addition to these instructions for use, all occupational health and safety regulations applicable in the country and environment in which the product is used, as well as all other relevant general regulations, must be strictly observed to ensure safe and proper use.
- Any damage compromising safety shall be repaired immediately.
- Perform all work prudently and with due care.
- Never open a lifting device while it is loaded.
- Never stand or walk beneath a suspended load.
- The specified load capacity shall always be observed.

Qualifications Required for Handling Lifting Devices

Field of Activity	Qualification	Specialist Knowledge
Delivery and Transport	Distributor, Carrier	Proof of Load Securing Training
Storage	Warehouse Personnel	Storage and Retrieval of Technical Equipment
Assembly, Disassembly	Qualified Personnel	Professional Experience in Assembly and Disassembly of Technical Equipment
Operation, Simple Visual Inspection	Qualified Personnel	Trained Crane Operator with Advanced Technical Knowledge, Awareness of Accident Prevention Regulations
Maintenance, Repair, Commissioning	Qualified Personnel, Specialist	Authorized Qualified Personnel with Advanced Technical Knowledge, Knowledge with Occupational Health and Safety Regulations
Disposal	Qualified Personnel	Knowledge of Regulations for Proper Disposal and Recycling

Tab. 1: Overview

4.2 Approved use

- The lifting, lowering and slewing loads.
- The specified load capacity shall always be observed.
- Suitable for operation within temperature ranges from -20 °C to +50 °C.
- Maximum permissible wind speed: < 40 km/h.

4.3 Non-Approved Use

- Exceeding the maximum load capacity.
- Making structural modifications to the product.
- Standing or walking beneath a suspended load.
- Pulling a load diagonally.
- Forcefully freeing loads that are stuck.
- Dragging loads along the ground.
- Transporting persons or animals.

The above list does not claim to be complete. Any use not explicitly permitted shall be considered non-approved.

5 Technical data

Designation: Aluminium Slewing Crane

Item number: Sample Manual

Serial number:

Pillar height:

Jib length:

Load capacity:

Year of construction:

Notes:

Further information can be found under the article number in the enclosed documents or on our homepage.

6 General Data

6.1 The following data are engraved on the individual components of the product

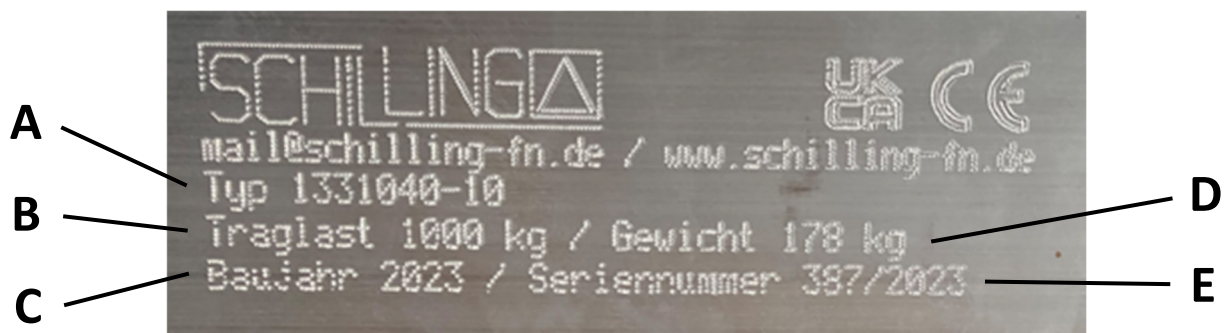
Manufacturer Address Label



Nominal Load Label



Example of a SCHILLING Engraving:



Explanation of the Engraving Details:

- A: Type
- B: Load Capacity
- C: Year of Manufacture
- D: Total Weight
- E: Serial Number

7 Delivery and Transportation

7.1 Scope of Delivery

Immediately check the delivery for completeness against the enclosed delivery note.

You may also use the product overview and parts list to verify that all items have been delivered (see Chapter "Overview of Individual Components").

If any parts are missing, contact your supplier immediately.

Claims for missing parts cannot be accepted if notification is delayed, especially if the product has already been used.

7.2 Transportation

The product is inspected and properly packaged prior to delivery.

NOTE

Damage to the Product

Incorrect transportation may cause damage to the product.

- Always transport the product as intended.
- Use a suitable means of transport.
- Ensure that the product is properly secured during transportation.

7.3 Storage

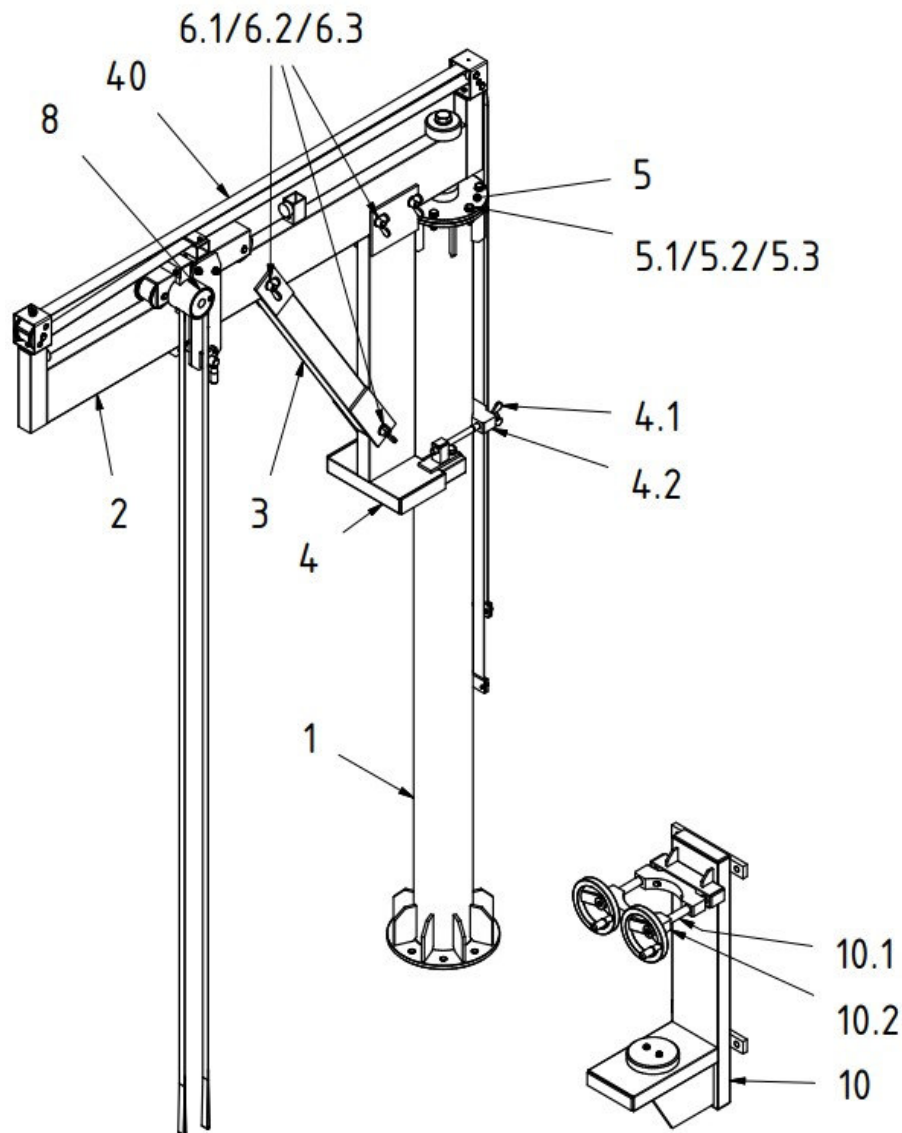
NOTE

Damage to the Product

Incorrect storage may cause damage to the product.

- Always store the product as intended.
- Store the product in a clean and dry place.
- Protect the product from:
 - o constant humidity or outdoor storage
 - o contamination
 - o physical damage
 - o corrosion

1 Overview of Individual Components



Parts List

Item	Name	Qty	Item	Name	Qty
1	Column	1	5.3	Hex Nut, M16	6
2	Extension- / Swivel Arm	1	6.1	Hex Bolt, M20x110	4
3	Brace	1	6.2	Washer, 20	8
4	Support Profile	1	6.3	Wing Nut, M20	4
4.1	Clamping Screw	2	8	Lockable Trolley	1
4.2	Brake Shoe	1	10	Wall Bracket (if ordered)	1
5	Flange Plate	1	10.1	Spindle with Handwheel	1
5.1	Hex Bolt, M16x60	6	10.2	Brake Shoe	1
5.2	Washer, 16	12	40	Endless Belt	1

2 Assembly of the Aluminium Slewing Crane



INFO

Recommended Personnel, Tools, and Equipment for Assembling the Aluminium Slewing Crane:

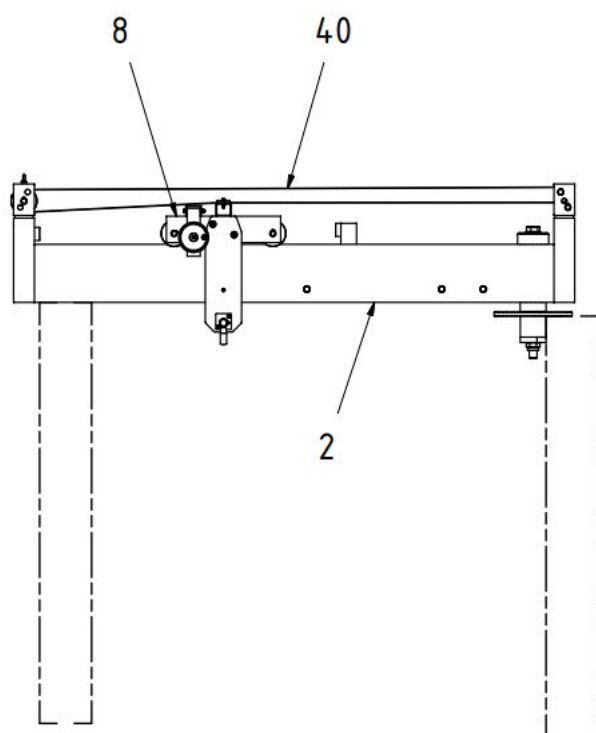
- At least two persons
- Folding trestles or similar equipment to assist with assembly (if necessary)
- Step ladder or similar access equipment (if necessary)
- Socket wrench or open-end wrench (if necessary)

⚠ CAUTION

The aluminium slewing crane contains pinch points that may result in injury. Carry out assembly with due care and caution.

⚠ WARNING

Be sure to secure the trolley against unintended movement by pulling firmly on the red belt.



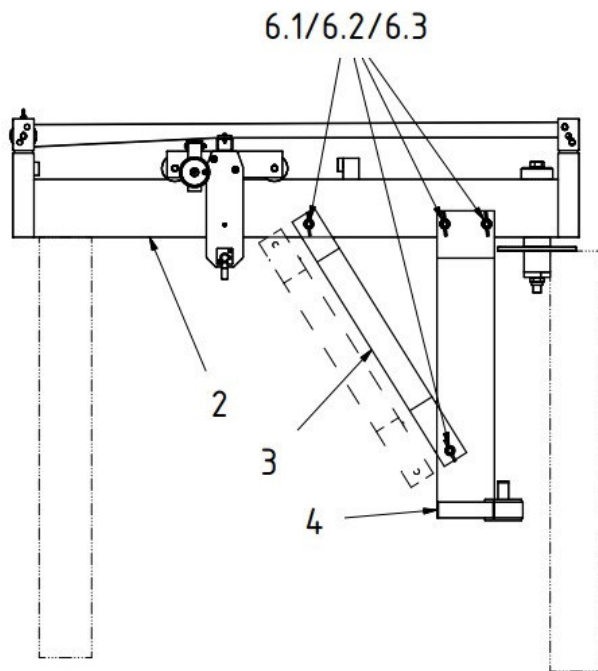
1. Place the Extension- / Swivel Arm:

1.1.

Place the extension- /swivel arm (2), with the trolley (8) fitted and the attached endless belt (40), between two assembly supports (*minimum height: 125 cm*).

⚠ CAUTION

The aluminium slewing crane contains pinch points that may result in injury.
Carry out assembly with due care and caution.



2. Installation of the Support Assembly on the Extension- / Swivel Arm:

2.1.

Install the support profile (4) on the extension- / swivel arm (2) as shown.
Secure the support profile (4) using two hex bolts (6.1), four washers (6.2) and two wing nuts (6.3).

2.2.

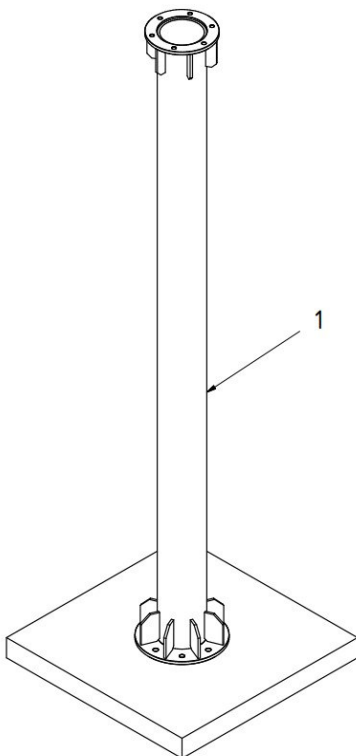
Install the brace (3) between the extension- / swivel arm (2) and the support profile (4) as shown.
Secure the brace (3) using two hex bolts (6.1), four washers (6.2) and two wing nuts (6.3).

3. Installation of the Column:

3.1. Installation of the Column on a Securely Anchored Surface:

3.1.1.

The column (1) is to be secured on site using suitable heavy-duty anchors and screws (*not included in the scope of delivery*) on a securely anchored surface, e.g. a concrete floor slab.
(8 holes with a hole diameter of 21 mm on a pitch circle diameter of 300 mm).

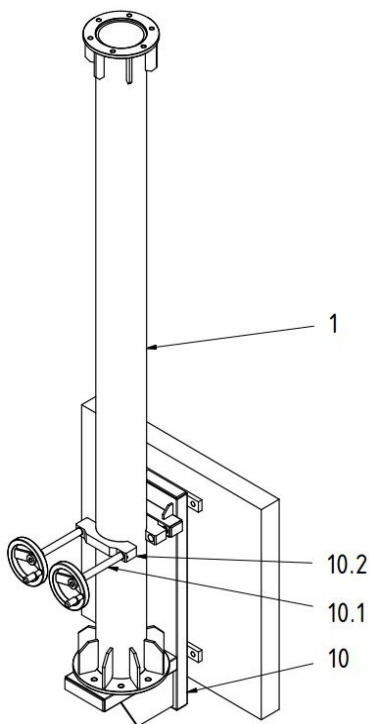


ACHTUNG

The operator is responsible for ensuring that the structural design and the selection of anchors and screws are suitable for the forces occurring.

⚠ CAUTION

The aluminium slewing crane contains pinch points that may result in injury.
Carry out assembly with due care and caution.



3.2. Installation of the Column on a Suitable Wall using a Wall Bracket (if ordered):

3.2.1.

The wall bracket (10) is to be secured on site to a suitable wall using suitable heavy-duty anchors and screws (*not included in the scope of delivery*).

3.2.2.

Remove the two spindles with handwheels (10.1) and the brake shoe (10.2), and place the column (1) onto the wall bracket (10).

3.2.3.

Then secure the column (1) to the wall bracket (10) using the brake shoe (10.2) and the two spindles with handwheels (10.1).

ACHTUNG

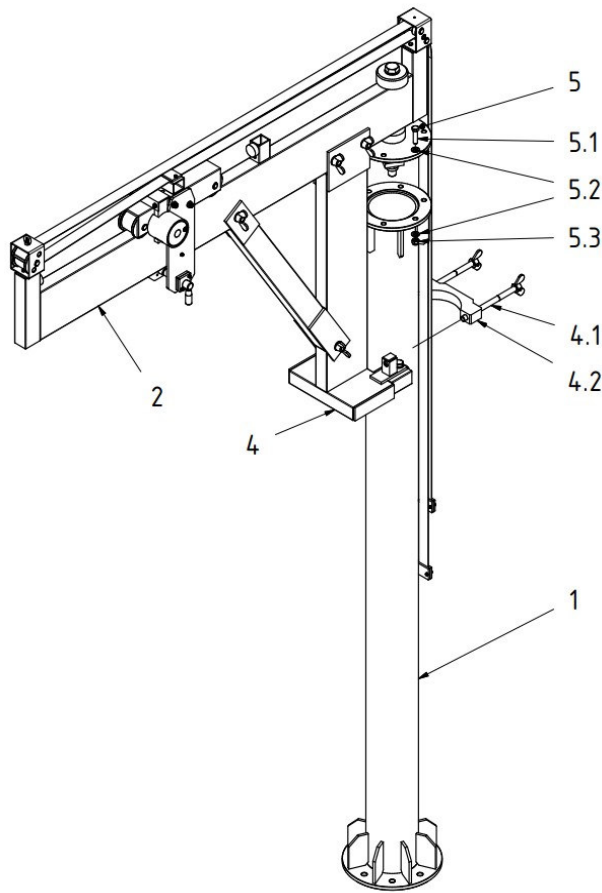
The operator is responsible for ensuring that the structural design and the selection of anchors and screws are suitable for the forces occurring.

⚠ WARNING

Be sure to secure the trolley against unintended movement by pulling firmly on the red belt.

⚠ CAUTION

The aluminium slewing crane contains pinch points that may result in injury.
Carry out assembly with due care and caution.



4. Bolting the Extension- / Swivel Arm to the Column:

4.1.

Remove the two clamping screws (4.1) and the brake shoe (4.2) from the support profile (4).

4.2.

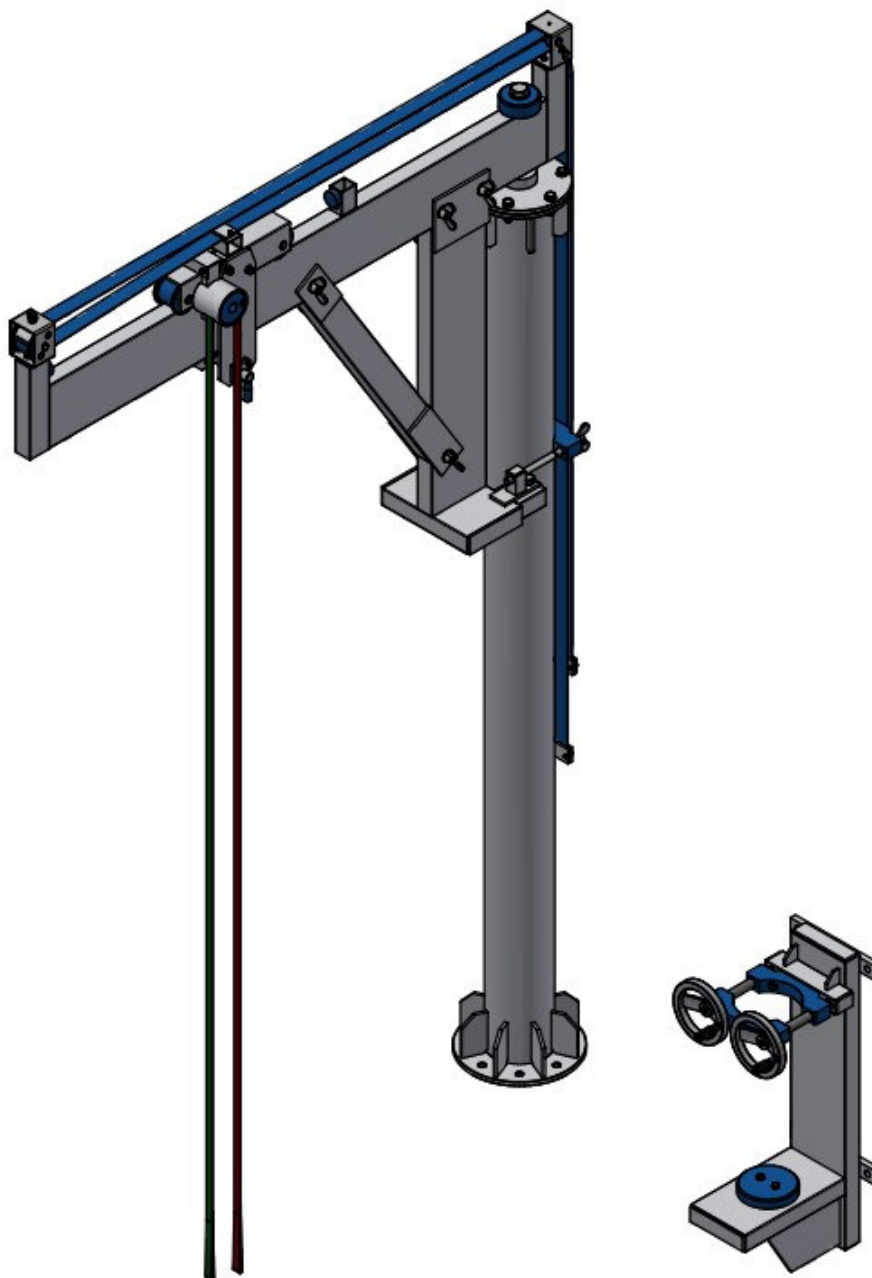
Place the flange plate (5) of the extension- / swivel arm (2) onto the column (1).

4.3.

Secure the flange plate (5) of the extension- / swivel arm (2) to the column (1) using six hex bolts (5.1), twelve washers (5.2) and six hex nuts (5.3).

4.4.

Reinstall the brake shoe (4.2) on the support profile (4) using the clamping screws (4.1).



- The Aluminium Slewing Crane is now fully assembled.
- To disassemble, follow the assembly steps in reverse order.

ACHTUNG

When disassembling, be sure to secure the trolley against unintended movement by pulling firmly on the red belt.

3 Commissioning

3.1 Pre-Commissioning Inspections

Inspection and testing of the aluminium slewing crane are required prior to commissioning to ensure that it has been fully and correctly assembled.

In addition, this verifies that the crane is in proper working condition and ready for its intended use.

WARNING

Failure to carry out prior inspection may result in injuries during commissioning.

Inspect the aluminium slewing crane as follows:

- Visual inspection
- Functional test

3.2 Visual Inspection, Functional Test

Visual Inspection

The aluminium slewing crane must be inspected prior to each commissioning.

CAUTION

The aluminium slewing crane contains pinch points that may result in injury.

Carry out all inspections on the aluminium gantry crane with due care and caution.

1. Prior to loading the aluminium slewing crane, all locking bolts and screws must be inserted and, where required, secured with wing nuts.
2. The belt must be guided through the rollers of the deflection head.
3. The belt must not show any signs of damage.
4. In case of defects, operation must be stopped. Any defects must be rectified by a qualified specialist.

Functional Test

The aluminium slewing crane must be inspected prior to each commissioning.

WARNING

Deformation or wear of individual components may result in load drop.

The aluminium slewing crane shall be immediately taken out of service.

Inspection shall be carried out by a qualified expert.

1. Verify the extent to which the individual components remain functional.
2. If in doubt, replace individual components.
3. Verify that all movable parts move freely.
4. Replace any parts that do not move freely.
5. If the aluminium slewing crane is no longer functional and irreparably damaged, take it out of service by appropriate labelling.
6. Dispose of the individual material components properly.

4 Operation

Once the aluminium slewing crane has been properly assembled and commissioned, it may be used for its intended purpose.

CAUTION

The aluminium slewing crane contains pinch points that may result in injury.
Carry out operation with due care and caution.

WARNING

Various hazardous situations may occur when using the aluminium slewing crane.

- The aluminium slewing crane must be firmly anchored to the floor or a wall. The anchors and screws provided on site must be suitable for the specified load case.
- If the trolley brake is not engaged and the slewing crane has a slight incline, the trolley may move unexpectedly.
- Before disassembling the aluminium slewing crane, the trolley must be secured in position.
- Pulling a load diagonally must be avoided.
- If cracks are detected in weld seams, a load-bearing component may fail, causing the load to drop and potentially resulting in serious injury.

DANGER

- The maximum load capacity must never be exceeded.
- Personnel must never stand or walk beneath a suspended load.

The aluminium slewing crane is used for lifting, lowering and slewing loads.

5 Maintenance

The product is essentially maintenance-free.

5.1 Maintenance Plan

Maintenance Date	Action
Prior to commissioning	Visual and functional inspection by qualified personnel
Before each use after commissioning (provided no abnormal incidents have occurred)	Visual inspection by qualified personnel
Annually	Visual inspection, functional test, and load test by a qualified expert.

Concentrated acids or alkalis must not be used for cleaning, especially on non-metallic components. Cleaning agents containing solvents must also not be used.

5.2 Visual Inspection, Functional Test, and Load Test

Visual Inspection

See chapter "Commissioning" → Visual inspection

Functional Test

See chapter "Commissioning" → Functional test

Load testing in accordance with the relevant regulations

A load test shall be carried out on the product at least annually, and immediately in the event of any modifications or after maintenance or repair work.

 WARNING
The operator of the product is obligated to comply with the applicable statutory regulations. Arrange for a proper inspection to be carried out by a qualified expert.

- The operator of the product shall ensure that the product is inspected by a qualified expert at intervals not exceeding one year, and that any defects identified during inspection are rectified immediately.
- The provisions of DGUV Regulation 52 (BGV D6) – Accident Prevention Regulations for Cranes shall be observed.

5.3 Inspection Report/ Periodic Inspection

The date of the next due inspection shall be recorded.

The inspection interval shall not exceed one year.

In case of heavy use in suitable environments, also shorter intervals apply.

Manufacturer:	SCHILLING Kran- und Hebeteknik GmbH – http://www.schilling-fn.de Ernst-Zimmermann-Str. 9-11 88045 Friedrichshafen
Product:	Aluminium Slewing Crane
Load Capacity:	
Item Number:	Sample Manual
Serial Number:	
Year of Manufacture:	

1.)	Inspection prior to delivery. Visual inspection and function testing of the product and its components have been performed. The product has been developed, constructed and built in accordance with the rules of engineering.
	Date: Date of dispatch (see delivery note) Owner's/Manufacturer's signature

2.)	Commissioning inspection/ Start of operation The inspection has been carried out.
	Date: Signature of the qualified expert

3.)	Due date of the next periodic inspection Date:
	Periodic inspection The inspection has been carried out.
	Date: Signature of the qualified expert

4.)	Due date of the next periodic inspection Date:
	Periodic inspection The inspection has been carried out.
	Date: Signature of the qualified expert

5.)	Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.		
Date:		Signature of the qualified expert

6.)	Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.		
Date:		Signature of the qualified expert

7.)	Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.		
Date:		Signature of the qualified expert

8.)	Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.		
Date:		Signature of the qualified expert

9.)	Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.		
Date:		Signature of the qualified expert

10.)	Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.		
Date:		Signature of the qualified expert

11.) Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.	
Date:	Signature of the qualified expert

12.) Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.	
Date:	Signature of the qualified expert

13.) Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.	
Date:	Signature of the qualified expert

14.) Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.	
Date:	Signature of the qualified expert

15.) Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.	
Date:	Signature of the qualified expert

16) Due date of the next periodic inspection	Date:
Periodic inspection The inspection has been carried out.	
Date:	Signature of the qualified expert

Continue the list as necessary.

5.4 Checklist for Inspection

Inspection template for duplication. File the completed copy together with the documentation.

Product:			Aluminium Slewing Crane
Load Capacity:			
Part Number:			Sample Manual
Serial Number:			
Year of Manufacture:			
Manufacturer:			SCHILLING Kran- und Hebetchnik GmbH – http://www.schilling-fn.de Ernst-Zimmermann-Straße 9-11 – 88045 Friedrichshafen
Inspection notes for existing components. No claim of completeness.			
ok	not ok	not relevant	Inspection result ok, components in proper condition? The list may/must be extended accordingly.
			General condition in good order
			Function and condition of bearings, brakes?
			Load-bearing profiles, column, extension arm free of cracks, without any relevant damage?
			Bolted and plug-in connections tight and in good condition? Holes not elongated or worn?
			Plastic components free of relevant cracks? No embrittlement?
			Trolleys free of cracks, rollers and bearings in good condition, brake function ensured?
			Chains, ropes, straps free of visible damage?
			Electrical components in good condition; where required, VDE tests carried out?
			Documentation available; labels and markings present and legible?
			Load test carried out? Rated load applied for 10 minutes, no permanent deformation?
If any defects are present, they must be rectified by the manufacturer or a qualified company using original spare parts. The defects have been properly rectified and the product is ready for use. Date and signature of the operations manager			
The product is free of defects and may be used until the next inspection. Date and signature of the inspecting qualified expert			

6 Disassembly and Disposal

As the manufacturer, we are legally required to inform you not to dispose of the product as unsorted waste. It must be disposed of separately via collection or return points for industrial and commercial waste.

Therefore, the product must be disassembled into its individual components.

6.1 Disassembly

CAUTION

Disassembling the product on unstable surfaces or using unsuitable tools may result in injury.

1. The assembled product must be disassembled in the reverse order of assembly, as described in this documentation.
2. The individual assemblies of the product must then be disassembled using suitable tools.

6.2 Disposal



INFORMATION FOR DISPOSAL

If the product is no longer functional or cannot be repaired, it must be disposed of in accordance with applicable regulations.

The product consists of several different material components, which must be disposed of separately:

- Dispose of aluminium components as scrap aluminium.
- Dispose of metal components as scrap metal.
- Dispose of plastic components as scrap plastic.
- Dispose of electrical components as electrical scrap (for example, when using an electric chain hoist).

Disposal of Packaging Material



INFORMATION FOR DISPOSAL

Packaging material must be properly disposed of or recycled.

7 Service

7.1 Contact

For service matters or all other enquiries, contact your supplier.

7.2 Spare Parts Ordering or Reordering Process



INFO

Use the overview and table in Chapter “Overview of Individual Components” to correctly identify the required component, and provide this information to your supplier.

1. Determine the serial number of your product. The serial number can be found in this user information in Chapter “Technical Data” and is also engraved on the product.
2. Determine the year of manufacture of the product. The year of manufacture can be found in this user information in Chapter “Technical Data” and is also engraved on the product.
3. Refer to the overview in Chapter “Overview of Individual Components” and mark the relevant component or assembly
4. Contact your supplier directly, providing the collected information and any additional details.

