

Aluminium Tripod 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!



Table of Contents

1	Introduction	3
1.1	Manufacturer	3
1.1	Terms and Conditions	3
2	Presentation of Information	4
2.1	Symbols and terminology.....	4
2.2	Instructions for Use and Enumerations	5
3	Declaration of Conformity	6
3.1	EC Declaration of Conformity.....	6
3.2	UK Declaration of Conformity	7
4	Safety	8
4.1	General Safety Notes	8
4.2	Approved use	9
4.3	Non-Approved Use.....	9
5	Technical Data.....	10
6	General Data	11
6.1	The following data are engraved on the individual components of the product.....	11
7	Delivery and Transportation	12
7.1	Scope of Delivery.....	12
7.2	Transportation	12
7.3	Storage	12
8	Overview of Individual Components	13
9	Assembly of the Aluminium Tripod Crane	14
10	Commissioning	18
10.1	Pre-Commissioning Inspections	18
10.2	Visual Inspection, Functional Test.....	18
11	Operation	20
12	Maintenance.....	21
12.1	Maintenance-Plan	21
12.2	Visual Inspection, Functional Test, and Load Test	21
12.3	Inspection Report/ Periodic Inspection	22
12.4	Checklist for Inspection.....	25
13	Disassembly and Disposal.....	26
13.1	Disassembly.....	26
13.2	Disposal	26

14	Service	27
14.1	Contact	27
14.2	Spare Parts Ordering or Reordering Process	27

1 Introduction

- ▲ The aluminium tripod crane is designed for lifting and lowering loads, particularly in areas that are difficult to access with conventional equipment.
- ▲ 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



1.1 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 Tripod 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 Tripod 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 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

- Lifting and lowering of loads
- Attachment of external lifting devices in versions without an integrated lifting device (e.g. chain hoist, rope hoist, electric hoist).
- 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

Description: Aluminium Tripod Crane

Item Number: Sample Manual

Serial Number:

Load Capacity:

Year of Manufacture:

Notes:

Further information can be found using the article number in the enclosed documentation or on our website.

6 General Data

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

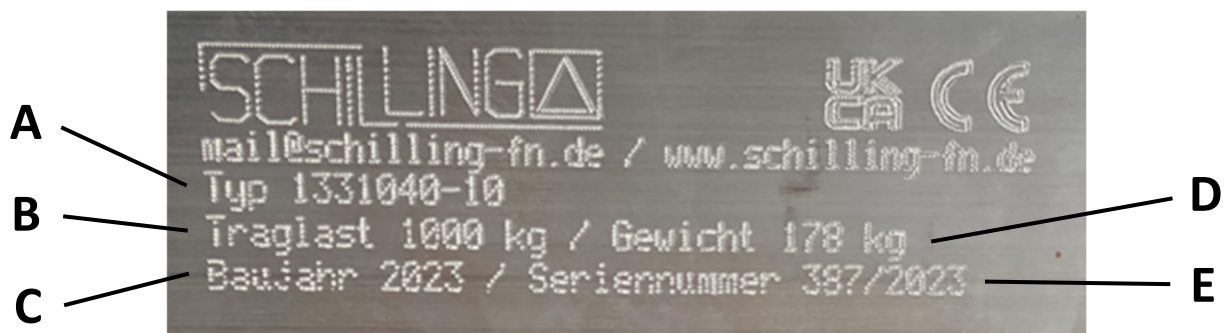
Manufacturer Address Label



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

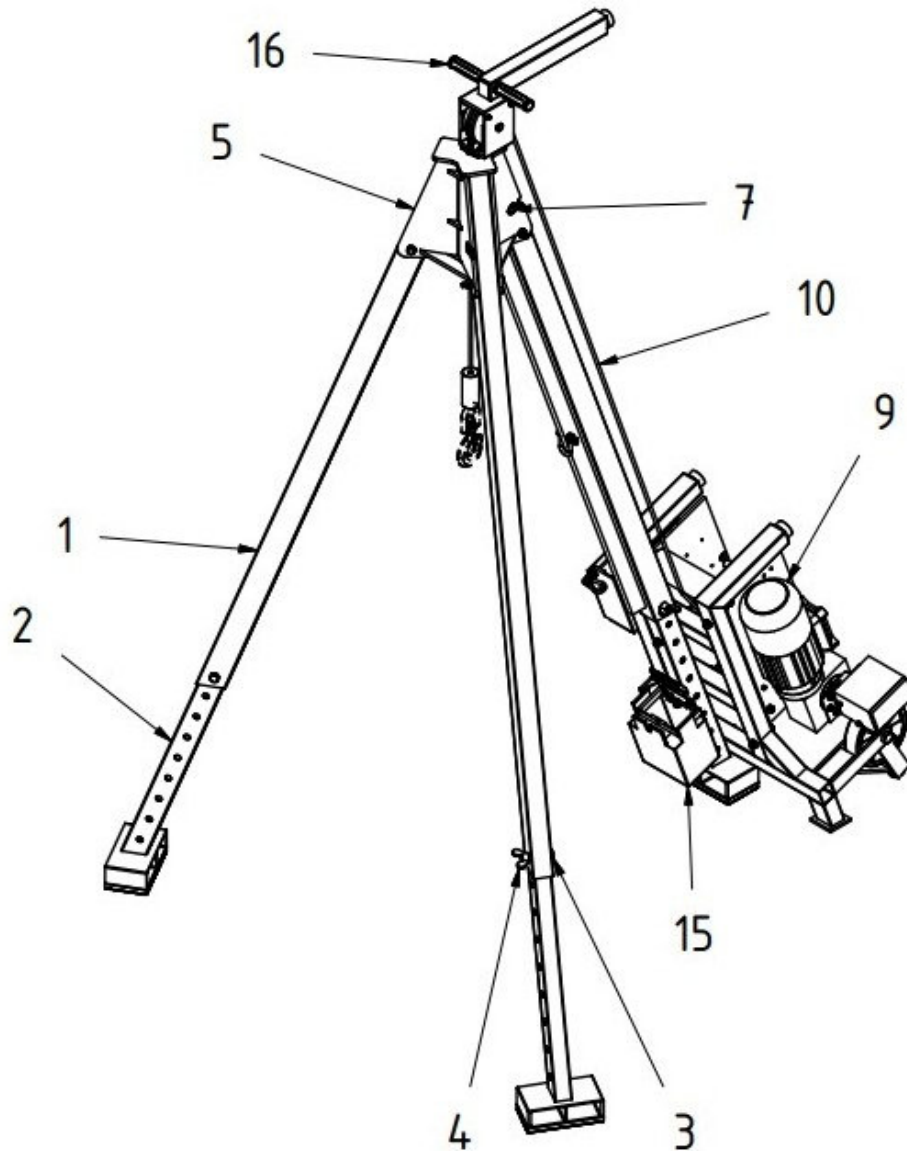
NOTE

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

8 Overview of Individual Components



Parts List

Item	Name	Qty	Item	Name	Qty
1	Leg	3	7	Locking Pin	3
2	Adjustable Feet	3	9	Electric Wire Rope Winch	1
3	Hex Bolt, M16x80	3	10	Rope with Hook, Ø8, Length 30 m	1
4	Wing Nut, M16	3	15	Cable Storage	1
5	Head	1	16	Support Profile with Handle	1

9 Assembly of the Aluminium Tripod Crane



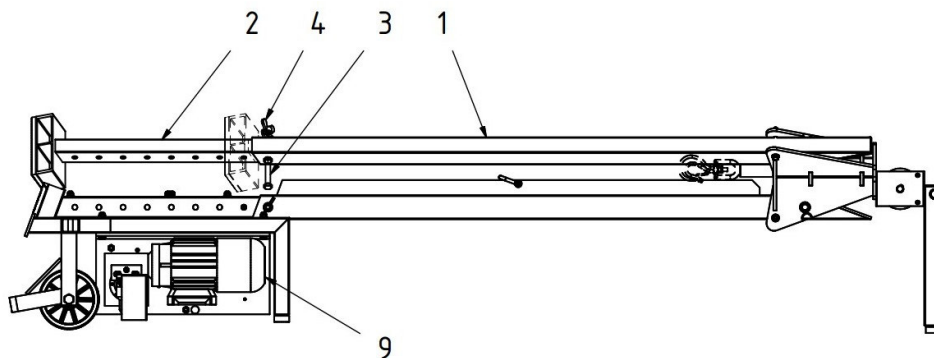
INFO

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

- 1-2 persons
- Step ladder or similar access equipment (if necessary)

⚠ CAUTION

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



1. Extending the two Upper Adjustable Feet:

1.1.

Place the aluminium tripod crane as shown.

1.2.

Loosen wing nut (4) and remove the hex bolt (3) from the first upper leg (1).

1.3.

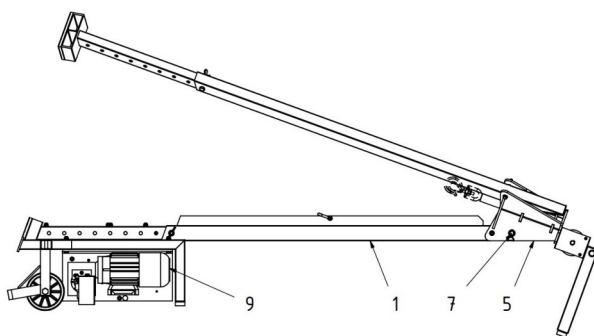
Extend the first upper adjustable foot (2) to the same length as the lower adjustable foot (2) with the electric wire rope winch (9).

1.4.

Secure the adjustable foot (2) using the hex bolt (3) and the wing nut (4).

1.5

For the second upper adjustable foot (2), repeat steps 1.2.-1.4.



2. Unfolding the Lower Leg with the Electric Wire Rope Winch:

2.1.

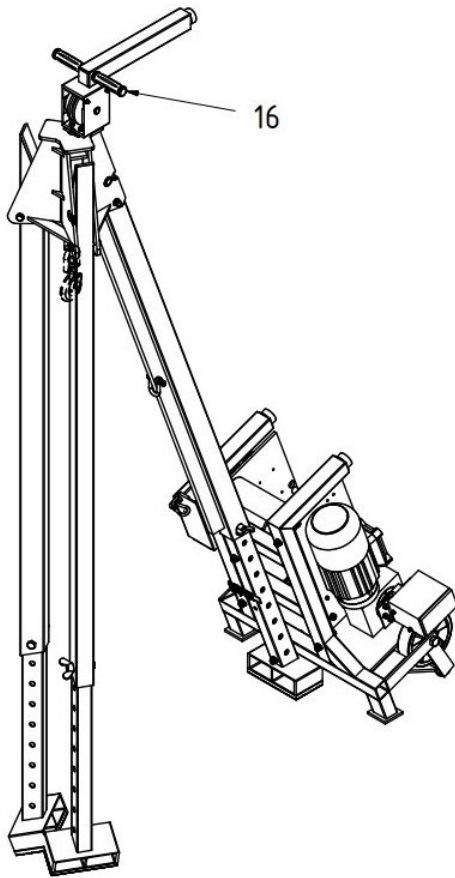
Press in the locking pin (7) on the leg (1) with the electric wire rope winch (9).

2.2.

Swing the two upper legs (1) outward (upwards) until the locking pin (7) on the leg (1) with the electric wire rope winch (9) engages in the hole in the head (5).

⚠ CAUTION

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

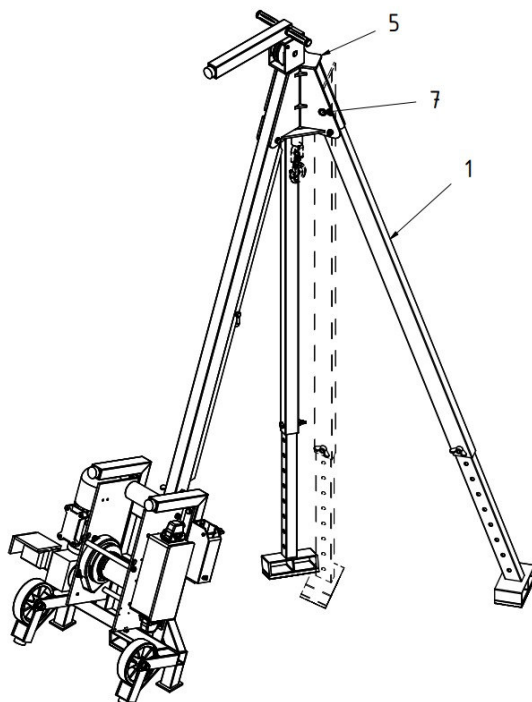


3. Erecting the Aluminium Tripod Crane:

3.1.

Lift the aluminium tripod crane by the handle (16) and erect it.

Use a step ladder if necessary.



4. Unfolding the remaining two Legs:

4.1.

Press in the locking pin (7) on the second leg (1). Swing the leg (1) outward (upwards) until the locking pin (7) engages in the hole in the head (5).

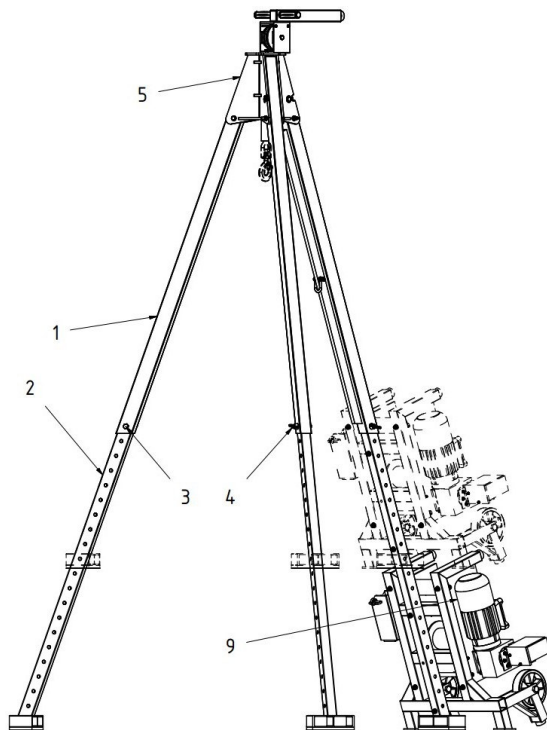
4.2.

For the third leg (1), repeat step 4.1.

Ensure stability at all times!

⚠ CAUTION

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



5. Levelling the Aluminium Tripod Crane:

5.1.

Start with the adjustable foot (2) with the electric wire rope winch (9).

5.2.

Loosen the wing nut (4) and remove the hex bolt (3) from the leg (1).

5.3.

Extend the adjustable foot (2) to the required height of the aluminium tripod crane.

5.4.

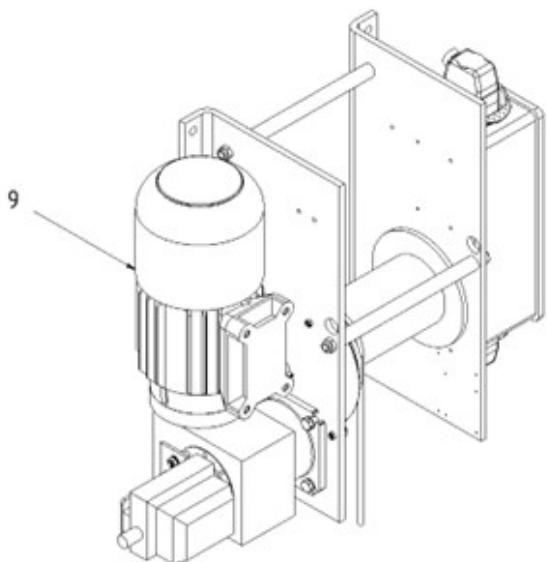
Secure the adjustable foot (2) using the hex bolt (3) and the wing nut (4).

5.5.

For the remaining two adjustable feet, repeat steps 5.2.-5.4.

5.6.

After levelling, the head (5) must be horizontal.



5. Connection of the Electric Wire Rope Winch:

5.1.

Connect the electric wire rope winch (9) to the power supply.

5.2.

The lifting and lowering of the electric wire rope winch (9) are controlled by a control unit, which is an integral part of the winch.

Additional information on hazards and handling of the electric wire rope winch is provided in the enclosed operating instructions.

NOTE

Prior to initial loading of the aluminium tripod crane, all legs must be fully unfolded. This is achieved by pulling each of the three legs outward until they are in contact with the head and the adjustable feet rest level on the ground.



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

NOTE

During disassembling, ensure that the locking pins are fully depressed before folding the legs.

10 Commissioning

10.1 Pre-Commissioning Inspections

Inspection and testing of the aluminium tripod 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 tripod crane as follows:

- Visual inspection
- Functional test

10.2 Visual Inspection, Functional Test

Visual Inspection

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

CAUTION

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

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

1. Prior loading of the aluminium tripod crane, all legs must be fully unfolded.
2. The locking pins must be engaged in the head.
3. During loading, the adjustable feet must be secured at all times with bolts, which must be locked using wing nuts.
4. In case of defects, operation must be stopped. Any defects must be rectified by a qualified specialist.

If applicable:

5. Inspect the strap or rope for signs of wear and damage.
6. Inspect the power supply cable and live parts for defects.

Function test

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

WARNING

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

The aluminium tripod 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 tripod crane is no longer functional and irreparably damaged, take it out of service by appropriate labelling.
6. Dispose of the individual material components properly.

11 Operation

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

CAUTION

The aluminium tripod 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 tripod crane.

- The aluminium tripod crane shall only be used on a level, stable and non-slip surface.
- A maximum tilt or angular deviation of 2° is permitted.
- Improper operation or use on an unlevel, unstable, or slippery surface may cause the aluminium tripod crane to sink and/or tip over.
- 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 tripod crane is used for lifting and lowering loads, particularly in areas that are difficult to access with conventional equipment.

Lifting equipment is available as an option. Please feel free to contact us for further information.

12 Maintenance

The product is essentially maintenance-free.

12.1 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.

12.2 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.

12.3 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 Hebetchnik GmbH – http://www.schilling-fn.de Ernst-Zimmermann-Str. 9-11 88045 Friedrichshafen
Product:	Aluminium Tripod Crane
Load Capacity:	
Item Number:	Sample Manual
Serial Number:	
Year of Manufacture:	

1.)	Inspection prior to delivery with $1.25 \times$ the rated load. The visual and functional inspection of the product and its components has been carried out. The product has been designed, engineered, and manufactured in accordance with the state of the art.
	Date: Dispatch date (see delivery note) Signature of the owner/manufacturer

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.

12.4 Checklist for Inspection

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

Product:			Aluminium Tripod Crane
Load Capacity:			
Item Number:			Sample Manual
Serial Number:			
Year of Manufacture:			
Manufacturer:			SCHILLING Kran- und Hebetechnik 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
			Load-bearing profiles, head, legs, adjustable feet 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?
			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			

13 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.

13.1 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.

13.2 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.

14 Service

14.1 Contact

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

14.2 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.

