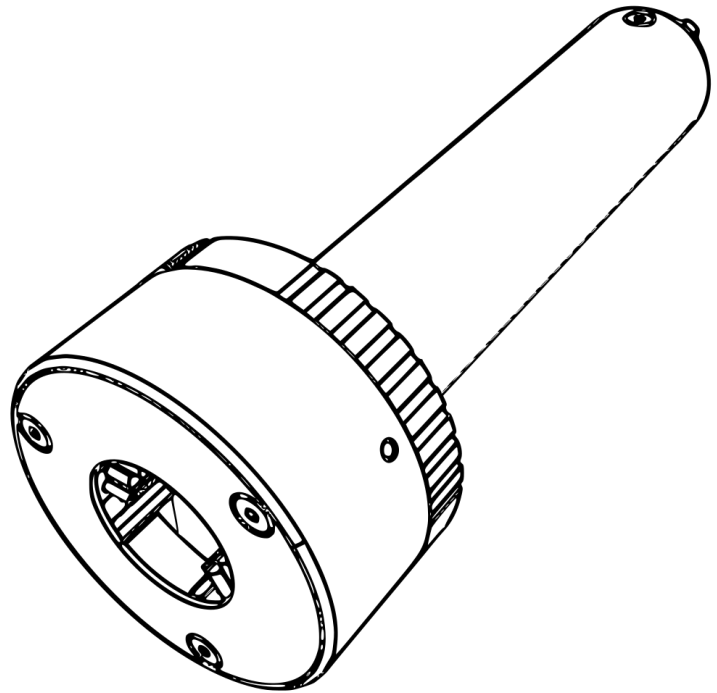


BoltClean



User manual
ARK external thread cleaner



BoltClean

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1. Preface

1.1. General

The purpose of this document is to inform you as a user of all precautions and essential operating procedures necessary for the safe and correct operation of the device.

This user manual contains information that is necessary for you as a user to use it as safely, efficiently, and comfortably as possible. In addition to topics such as operation and use, attention was also paid to maintenance and solving malfunctions that may be conducted by yourself.

The document contains the instructions for the ARK external thread cleaner, which is referred to as "device."

1.1.1. Repairs and maintenance

Repairs and maintenance work that are not part of daily maintenance must always be conducted by an experienced and adequately trained engineer. Repairs must always be conducted by or in consultation with **BoltClean**.

INFORMATION

ALWAYS READ THE ENTIRE USER MANUAL BEFORE OPERATING AND OPERATING THE APPLIANCE



INFORMATION

ENSURE THAT THE LATEST VERSION OF THIS USER MANUAL, AND RELATED DOCUMENTS, ARE ALWAYS WITH THE DEVICE



CAUTION

- THE DEVICE CAN BE USED IN COMBINATION WITH PRODUCTS LISTED IN THIS DOCUMENT
- THE USE OF OTHER TYPES, TYPES, OR BRANDS OF DEVICES, MACHINERY, PARTS, OR COMPONENTS MAY RESULT IN INJURY AND/OR PROPERTY DAMAGE



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No part of this publication may be reproduced and/or published by means of print, photocopy, microfilm or in any other way without the prior written permission of **BoltClean**.

1.2. Reading guide

This user manual consists of several chapters describing the commissioning, operation, and regular maintenance of the appliance.

1.2.1. Use of the document

Read the document completely.

- Make sure you understand all the instructions
- Follow the safety instructions to avoid injury or damage
- Always conduct the procedures completely and in the given order

1.3. Relationship with other documents

This document has no direct relationship with other documents.

1.4. Document contents

1.4.1. Original document language

The source language of this user manual is Dutch. A translation can result in differences of interpretation regarding the content and meaning of the text. In all cases, in case of a dispute, the Dutch version of this document will be regarded as the sole and authentic source for deciding the content and meaning of the text.

1.4.2. Information in the document

The information in this manual has been compiled with the greatest possible care. However, this does not guarantee that this document is free of typos, errors, or outdated information. Therefore, no rights or claims can be derived from the content of this manual.

BoltClean cannot be held liable for any direct, indirect, special, or consequential damage that might arise because of the information contained in this manual. In view of product development and product improvements, **BoltClean** reserves the right to change products or specifications at any time without prior notice.

1.5. Corrections, comments, and suggestions

Corrections, comments, and suggestions for improvement may be made known or sent to **BoltClean**.

2. Safety

2.1. Symbols and markings used¹

2.1.1. Warnings

	General Warning ISO7010: W001		Danger of hand entrapment ISO7010: W024
	Danger high voltage ISO7010: W012		Rotating parts ISO7010: W025

2.1.2. Mandatory and prohibited actions

	General warning Sign ISO7010: M001		Use foot protection ISO7010: M008
	Consult manual ISO7010: M002		Use hand protection ISO7010: M009
	Use hearing protection ISO7010: M003		Wear protective clothing ISO7010: M010
	Use eye protection ISO7010: M004		Use head protection ISO7010: M014

2.1.3. Other symbols and pictograms

	General information ISO7000:2760		Double insulated Safety class II
	Recycling symbol indicates whether a product can be recycled		Environmentally hazard GHS09

¹ Not all symbols shown are included in this user manual, they also serve as an indication to the user in connection with related user manuals and/or instructions

2.1.4. Warning and information blocks

This publication may have several warning blocks and symbols. They are intended to draw your attention to potential dangers. Always follow the information in the warning blocks to prevent injury, material, or environmental damage.

The warning blocks² may also have additional pictograms.

	DANGER
	INDICATES AN IMMINENTLY DANGEROUS SITUATION
	FAILURE TO AVOID AN IMMINENTLY DANGEROUS SITUATION <u>WILL</u> RESULT IN DEATH OR SERIOUS INJURY AND/OR MATERIAL OR ENVIRONMENTAL DAMAGE
	<ul style="list-style-type: none">▪ This warning block has a red header

	WARNING
	INDICATES A POTENTIALLY DANGEROUS SITUATION
	FAILURE TO AVOID A POTENTIALLY DANGEROUS SITUATION CAN RESULT IN DEATH OR SERIOUS INJURY AND/OR MATERIAL OR ENVIRONMENTAL DAMAGE
	<ul style="list-style-type: none">▪ This warning block has an orange header

	CAUTION
	INDICATES A POTENTIALLY DANGEROUS SITUATION
	FAILURE TO AVOID A POTENTIALLY DANGEROUS SITUATION CAN RESULT IN INJURY AND/OR MATERIAL OR ENVIRONMENTAL DAMAGE
	<ul style="list-style-type: none">▪ This warning block has a yellow header

	INFORMATION	
	INDICATES OR REFERS TO ADDITIONAL INFORMATION THAT IS DIRECTLY OR INDIRECTLY RELATED TO THE DEVICE OR TO INFORMATION FROM THIS USER MANUAL	
	<ul style="list-style-type: none">▪ This warning block has a blue header	

² Not all described warning blocks are included in this user manual, they are also indicative for the user in connection with related user manuals and/or instructions

2.2. General Safety Instructions

2.2.1. Liability

BoltClean cannot be held responsible for any injury or damage resulting from unintended use of the device. The device is designed and intended only for the purpose described in the relevant documents. Use that is not described is considered unintended use and may result in injury or damage.

Unintended use includes:

- use of devices and/or products not approved by **BoltClean**
- use of devices that are not suitable or incompatible with **BoltClean** equipment
- modifying or modifying the device in any way
- Allowing unqualified personnel to perform tasks on or with the device

2.2.2. Safety of personnel

- Do not allow unqualified personnel to perform tasks on or with the device
- Keep unqualified personnel, children, and animals away from the device
- Do not use the device under the influence of mood-altering substances
- Comply with local labour and safety laws and environmental regulations

WARNING

- USE THE CORRECT PROTECTIVE EQUIPMENT THAT IS IN ACCORDANCE WITH THE APPLICABLE REGULATIONS
- IF APPLICABLE, WEAR THE NECESSARY PERSONAL PROTECTIVE EQUIPMENT (PPE) SUCH AS:
 - SAFETY HELMET, SAFETY GLASSES, HEARING PROTECTION, SAFETY GLOVES, SAFETY SHOES, AND OVERALLS



2.2.3. Deployment of qualified personnel

The term "qualified personnel" refers to individuals who thoroughly understand the device and its safe installation, operation, and maintenance.

- Qualified personnel are physically capable of performing the required tasks, are familiar with all relevant safety instructions and regulations, and are trained to safely install, operate, and maintain the device.

CAUTION

IT IS THE RESPONSIBILITY OF THE COMPANY OPERATING THE DEVICE TO ENSURE THAT THESE REQUIREMENTS ARE MET



2.2.4. Safety of work area

CAUTION

- KEEP THE WORK AREA CLEAN AND WELL-LIT
- KEEP THE WORK AREA CLEAR OF UNWANTED OBSTRUCTIONS
- ENSURE CLEAR PASSAGES IN THE WORK AREA DURING OPERATION

2.2.5. Security devices

- Only use devices, products, or machines approved by **BoltClean**
- Use only devices, products, or machines that are compatible or compatible with the **BoltClean** device
- Do not modify the device in any way
- Inspect the device for visual damage before each use. Follow the instructions for maintaining the device
- Do not expose the device to extremely high or low temperatures

CAUTION

- MAKE SURE THE CORRECT ROTATION SPEED IS SET
- MAKE SURE THE DEVICE IS ADJUSTED TO THE CORRECT BOLT DIAMETER FOR SAFE OPERATION AND THE BEST CLEANING RESULT
- MAKE SURE THAT THE OBJECT TO BE CLEANED IS FREE OF GREASE AND/OR EXCESS DIRT, IF NECESSARY CLEAN THE OBJECT FIRST WITH A DRY CLOTH
- CHECK THAT THE LOCKING SCREWS ARE PROPERLY TIGHTENED
- BEFORE USE, CHECK THAT ALL FASTENERS ARE PROPERLY TIGHTENED AND FITTED
- FOLLOW ALL STEPS BEFORE TURNING ON THE DEVICE



3. Description and operation

3.1. Intended Use

The **BoltClean** ARK external thread cleaner is a mechanical device designed to clean threads, bolts, studs, and stud ends, among other things, from M30 to M42 (1 ¹/₈" to 1 ⁵/₈").

3.2. Introduction

3.2.1. Overview

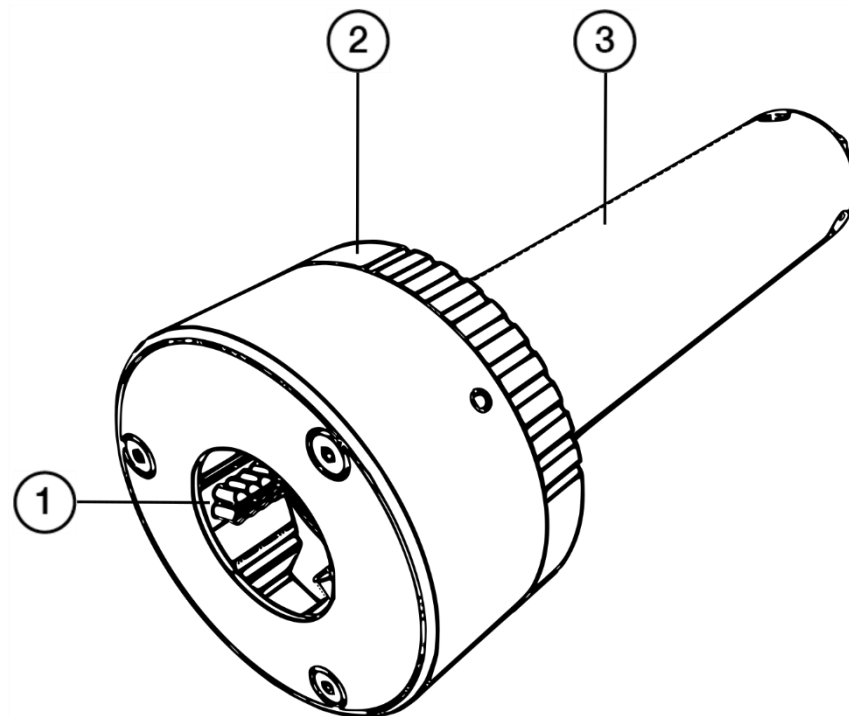


image 1

- ① Brushes
- ② Adjustment ring
- ③ Enclosure

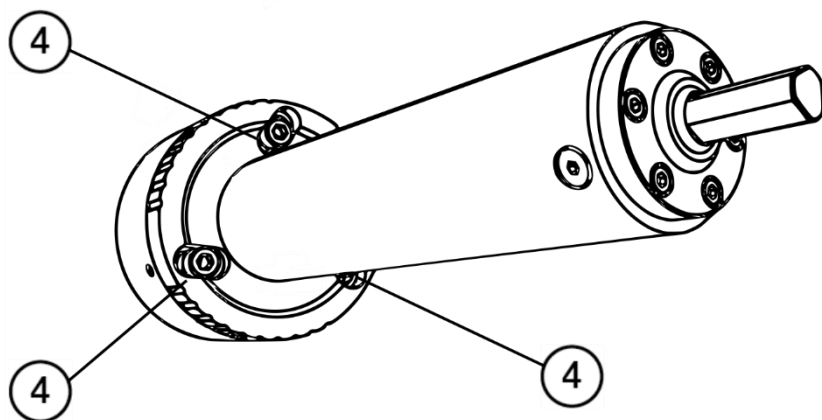


image 2

- ④ Locking screws

3.3. Operation

The **BoltClean** ARK external thread cleaner is a mechanical device designed to clean threads, bolts, studs, and stud ends, among other things. The operation is based on the rotation of cleaning brushes around the object to be cleaned.

3.4. Technical specifications

Name : **BoltClean** ARK-external thread cleaner

Serial number : See device

- See also image 3 page 10

Outer diameter		
ARK-3042	105	Mm

Range cleaning		
ARK-3042	M30 – M42	metric
	1 1/8" - 1 5/8"	imperial

Cleaning length		
ARK-3042	260	Mm

Weight		
ARK-3042	1,68	Kg

Brushes		
ARK-3042	3	Pieces

Rotation speed (maximum)		
ARK-3042	500	rpm

3.5. Declaration of conformity, CE marking

The **BoltClean** ARK external thread cleaner is CE marked³. This is visibly applied to the device.

- See also image 3 page 10
- See also Annex A: (EU) Declaration of Conformity

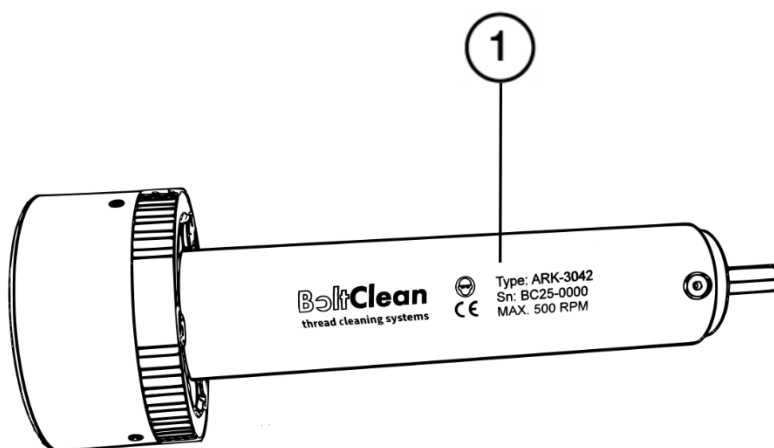


image 3

① Designation CE

INFORMATION

IF A MODIFIED APPLIANCE IS REIMPORTED OR OFFERED IN A COUNTRY THAT FALLS WITHIN THE SCOPE OF THE EUROPEAN MACHINERY DIRECTIVE 2006/42/EC AND/OR REGULATION (EU) 2023/1230, THE IMPORTER AND/OR SUPPLIER IS RESPONSIBLE FOR CHECKING AND CONFIRMING IN WRITING THAT THE CONDITION AND STATUS UPON IMPORT INTO THE EC COMPLIES WITH THE STANDARDS AND DIRECTIVES STATED IN THE DECLARATION OF CONFORMITY



³ In view of product developments and product improvements, it is possible that the declaration included in this user manual is replaced by a more recent version

3.6. Lifetime

The life expectancy is highly dependent on use, periodic maintenance, and events. When your **BoltClean** device is used over the years, parts wear out and malfunctions and/or defects can occur.

Due to these variable factors, it is not possible to give an unambiguous expectation for the lifespan. Under normal use, the technical service life of the device will be comparable to similar devices.

- see also § 10 page 25

INFORMATION

THE LIFE EXPECTANCY IS HIGHLY DEPENDENT ON USE, INTERIM MAINTENANCE AND EVENTS

INCORRECT USE OR INCIDENTS WITH THE DEVICE CAN GREATLY SHORTEN THE SERVICE LIFE

THE USER IS EXPRESSLY RESPONSIBLE FOR THE CORRECT USE AND PROPER MAINTENANCE OF THE DEVICE



INFORMATION

NO RIGHTS CAN BE DERIVED FROM THE LIFESPAN EXPECTATIONS, NOR CAN THIS LEAD TO AN EXTENSION OF WARRANTY OBLIGATIONS AND/OR ANY LIABILITY ON THE PART OF THE SUPPLIER AND/OR PRODUCER OF BOLT CLEAN PRODUCTS



4. Commissioning

4.1. General instructions for commissioning

INFORMATION

ALWAYS READ THE ENTIRE USER MANUAL, SPECIFICALLY THE SAFETY SECTION, BEFORE USING THE DEVICE



4.2. Preparation for commissioning

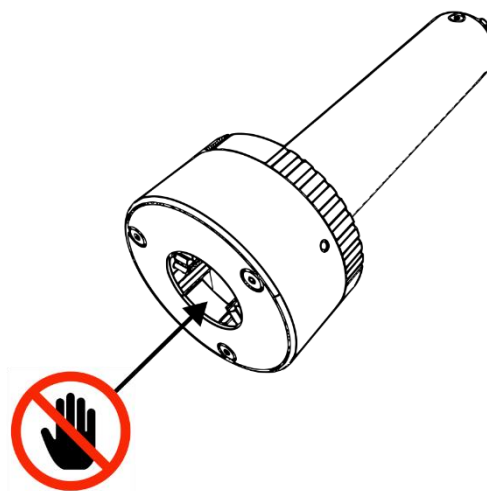
CAUTION

- MAKE SURE THE CORRECT ROTATION SPEED IS SET
- MAKE SURE THE DEVICE IS ADJUSTED TO THE CORRECT BOLT DIAMETER FOR SAFE OPERATION AND THE BEST CLEANING RESULT
- MAKE SURE THAT THE OBJECT TO BE CLEANED IS FREE OF GREASE AND/OR EXCESS DIRT, IF NECESSARY CLEAN THE OBJECT FIRST WITH A DRY CLOTH
- CHECK THAT THE LOCKING SCREWS ARE PROPERLY TIGHTENED
- BEFORE USE, CHECK THAT ALL FASTENERS ARE PROPERLY TIGHTENED AND FITTED
- FOLLOW ALL STEPS BEFORE TURNING ON THE DEVICE



WARNING

MAKE SURE THAT FINGERS/HANDS ARE AWAY FROM THE ROTATING BRUSHES BEFORE SWITCHING ON THE DRIVE DEVICE, RISK OF INJURY



4.2.1. Mounting the external thread cleaner on a drive

To correctly install the **BoltClean** ARK external thread cleaner on the device used for the drive, the manual of the respective drive device must be consulted.

- 1** Set the maximum rotation speed on the drive device.
 - See also § 3.4 page 9
 - See also image 4 page 13
- 2** Set the direction of rotation of the drive device to "clockwise" for the first cleaning cycle.
 - at the end of the cleaning length of the ARK, the direction of rotation of the drive device must be reversed
 - See also § 5.3 page 15

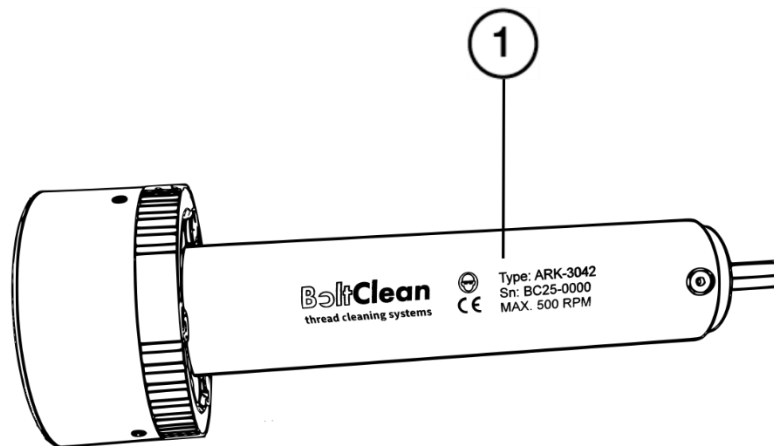


image 4

- ① Maximum rotation speed

CAUTION

- BE SURE THAT THE MAXIMUM ROTATION SPEED CANNOT BE EXCEEDED
- CHECK THAT THE DIRECTION OF ROTATION FOR THE FIRST CLEANING CYCLE IS SET CORRECTLY



4.2.2. Adjusting the cleaning head

For effective cleaning, the cleaning head can be adjusted to the diameter of the object to be cleaned.

- 1** Loosen the locking screws.
- See also image 5 page 14
- 2** Set the desired diameter using the adjusting ring.
- See also image 5 page 14
- 3** Retighten the locking screws.
- See also image 5 page 14
 - the adjusting ring can no longer be adjusted/rotated

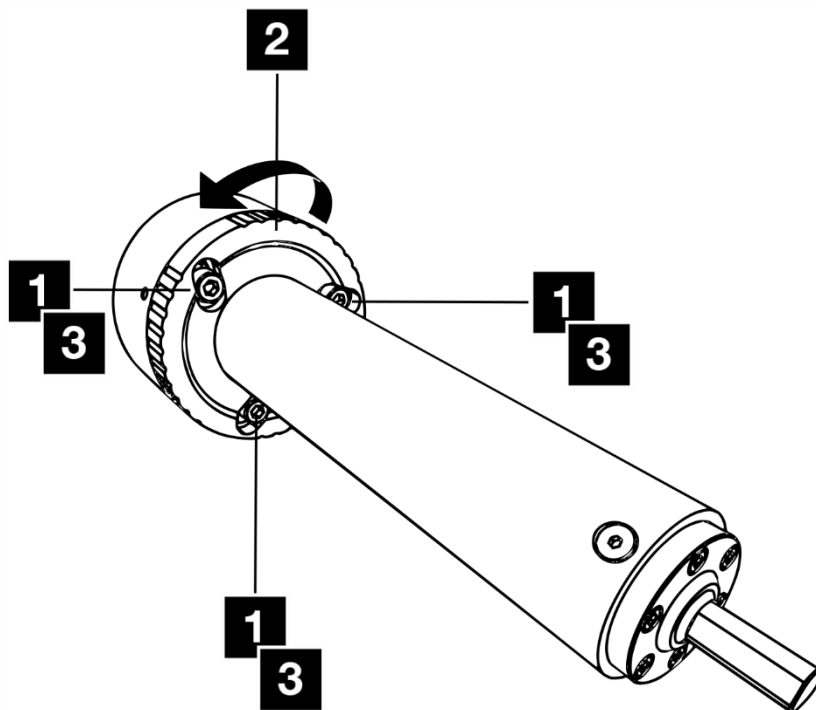


image 5

CAUTION

CHECK THAT THE LOCKING SCREWS ARE PROPERLY TIGHTENED AND THAT THE ADJUSTING RING CAN NO LONGER BE ADJUSTED



5. Operation and use

5.1. General instructions for operation and use

INFORMATION

ALWAYS READ THE ENTIRE USER MANUAL, SPECIFICALLY THE SAFETY SECTION, BEFORE USING THE DEVICE



CAUTION

- MAKE SURE THE CORRECT ROTATION SPEED IS SET
- BE SURE THAT THE MAXIMUM ROTATION SPEED CANNOT BE EXCEEDED
- MAKE SURE THE DEVICE IS ADJUSTED TO THE CORRECT BOLT DIAMETER FOR SAFE OPERATION AND THE BEST CLEANING RESULT
- CHECK THAT THE DIRECTION OF ROTATION FOR THE FIRST CLEANING CYCLE IS SET CORRECTLY
- MAKE SURE THAT THE OBJECT TO BE CLEANED IS FREE OF GREASE AND/OR EXCESS DIRT, IF NECESSARY CLEAN THE OBJECT FIRST WITH A DRY CLOTH
- CHECK THAT THE LOCKING SCREWS ARE PROPERLY TIGHTENED
- FOLLOW ALL STEPS BEFORE TURNING ON THE DEVICE



WARNING

MAKE SURE THAT FINGERS/HANDS ARE AWAY FROM THE ROTATING BRUSHES BEFORE SWITCHING ON THE DRIVE DEVICE, RISK OF INJURY



5.2. Operation

5.2.1. Turn device on or off

CAUTION

REFER TO THE OPERATING INSTRUCTIONS FOR THE DRIVING DEVICE BEFORE SWITCHING ON THE DRIVING DEVICE WITH THE MOUNTED ARK EXTERNAL THREAD CLEANER



5.3. Cleaning objects

- 1** Set the direction of rotation of the drive device to "clockwise" for the first cleaning cycle.
- 2** Place the cleaning brushes against the object to be cleaned.
- 3** Switch on the drive device.
- See also § 5.2.1 page 15
- 4** Run the cleaning brushes until the end of the cleaning length of the ARK is reached.
- 5** Change the direction of rotation of the drive device at the end of the cleaning cycle.
- ➔ Repeat step **4** and **5** if necessary.
- 6** Switch off the drive device.
- See also § 5.2.1 page 15

6. Maintenance

6.1. General maintenance instructions

WARNING

PERFORM MAINTENANCE ONLY IF THE ARK EXTERNAL THREAD CLEANER IS NOT
MOUNTED ON A DRIVE DEVICE



6.2. Periodic maintenance

Regular maintenance is required for the safe and effective operation of your **BoltClean** device.

- Clean the appliance externally with a dry cloth
- Remove dust and any contamination residue
- Check the entire device for damage
- Check that all fasteners/nuts are still tightened

6.3. Replacing brushes

WARNING

ONLY REPLACE THE BRUSHES IF THE ARK EXTERNAL THREAD CLEANER IS NOT MOUNTED ON A DRIVE DEVICE



- 1** Loosen the screws on the front and remove the faceplate.
- See also image 6 page 18
 - 2** Loosen the locking screw of the brush to be replaced.
- See also image 7 page 18
 - 3** Slide the brush and brush holder to be replaced out of the cleaning head.
- See also image 8 page 19
 - 4** Remove the Allen bolts from the brush so that it comes loose from the brush holder.
- See also image 9 page 19
 - 5** Replace the brush with a new brush.
- See also image 10 page 20
 - 6** Use the Allen bolts to secure the new brush to the brush holder.
- See also image 11 page 20
 - 7** Slide the brush and brush holder back into the cleaning head.
- See also image 12 page 21
 - 8** Reattach the brush holder with the locking screw.
- See also image 13 page 21
- ➔ Repeat step **2** up to and including **8** for each brush that needs to be replaced.
-
- 9** Replace and secure the faceplate.
- See also image 14 page 22

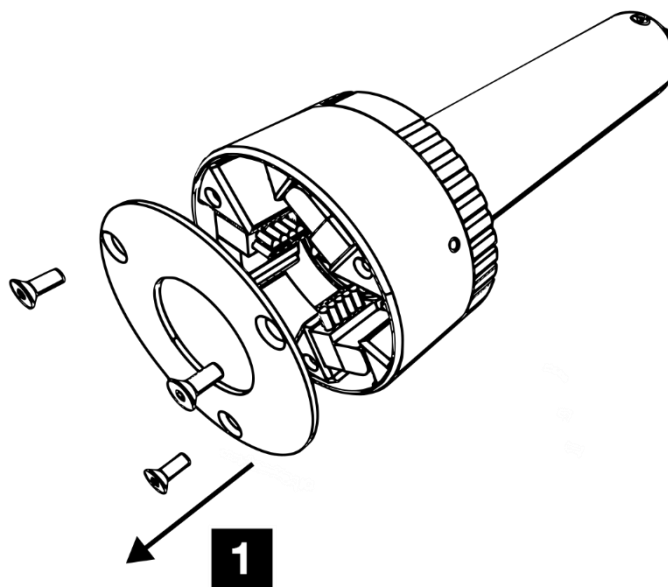


image 6

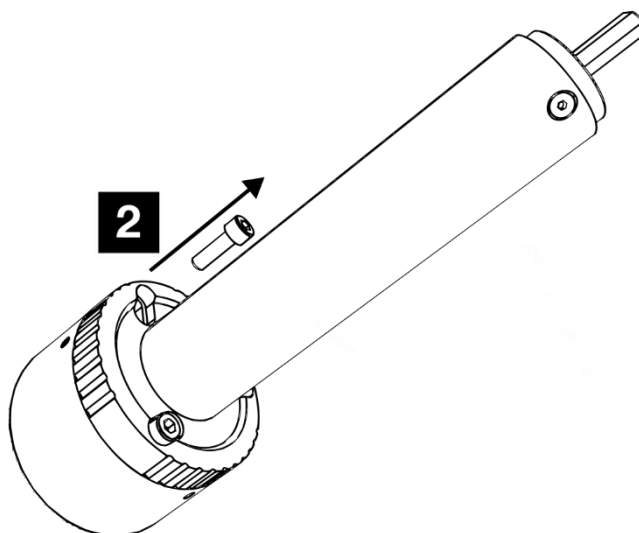


image 7

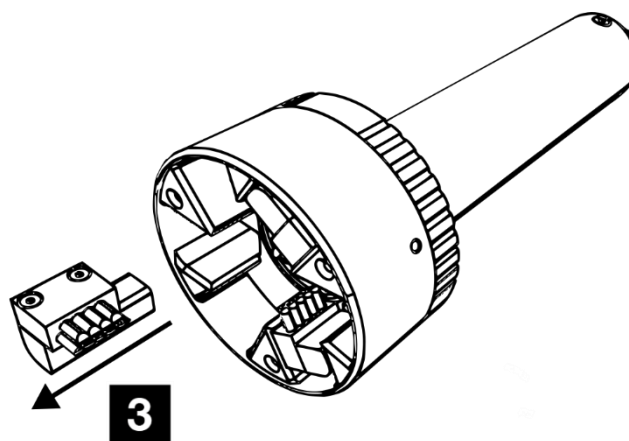


image 8

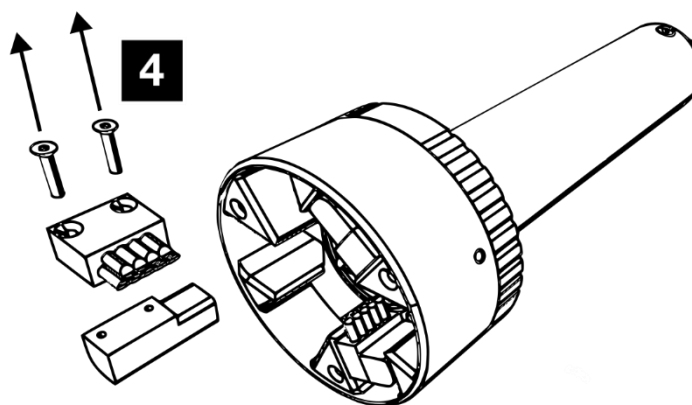


image 9

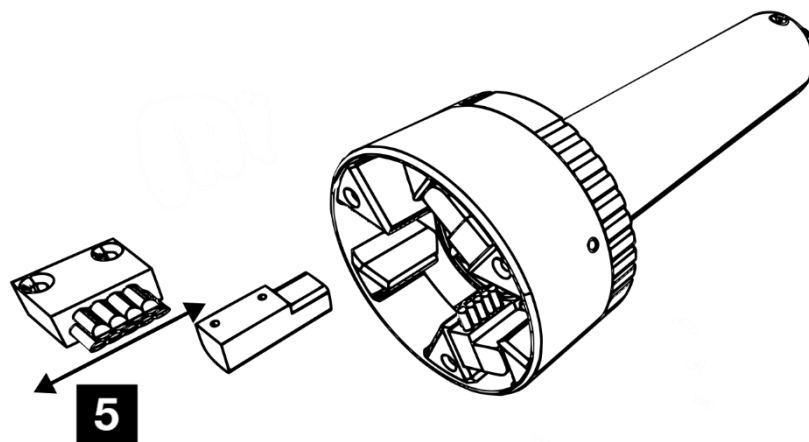


image 10

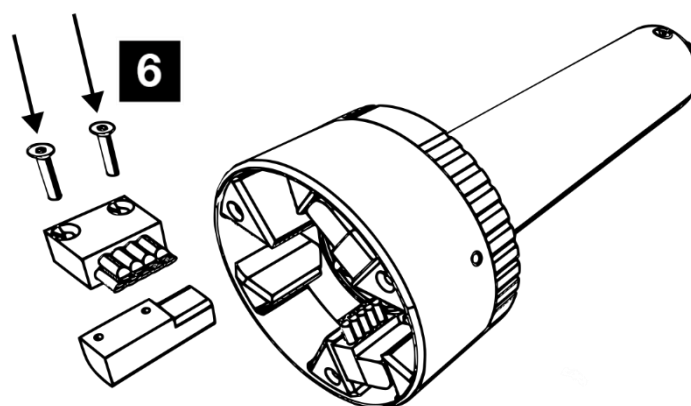


image 11

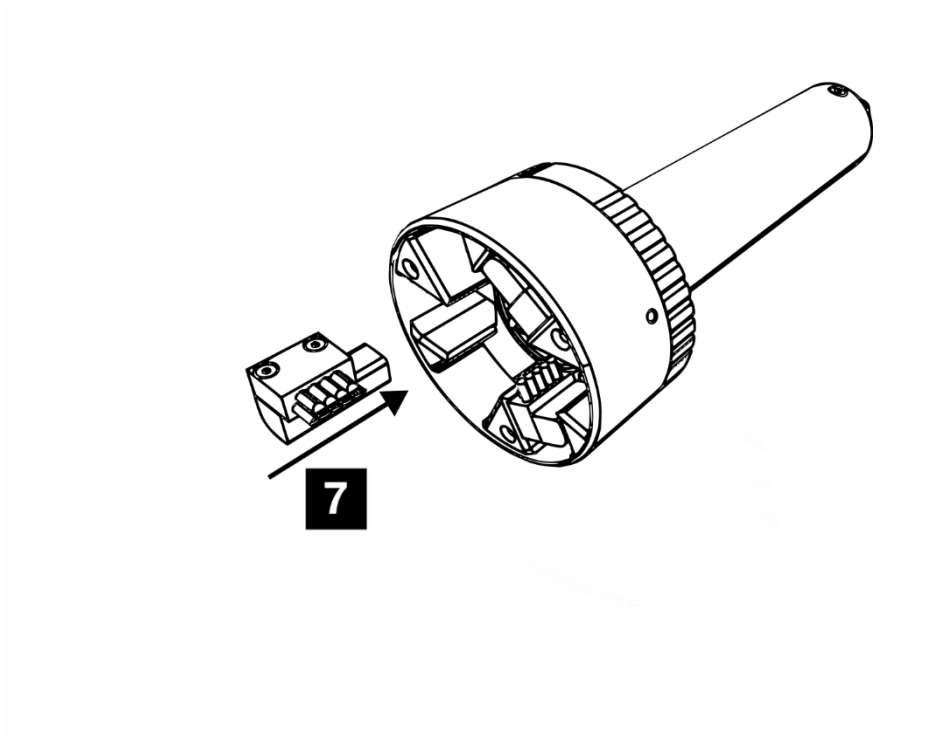


image 12

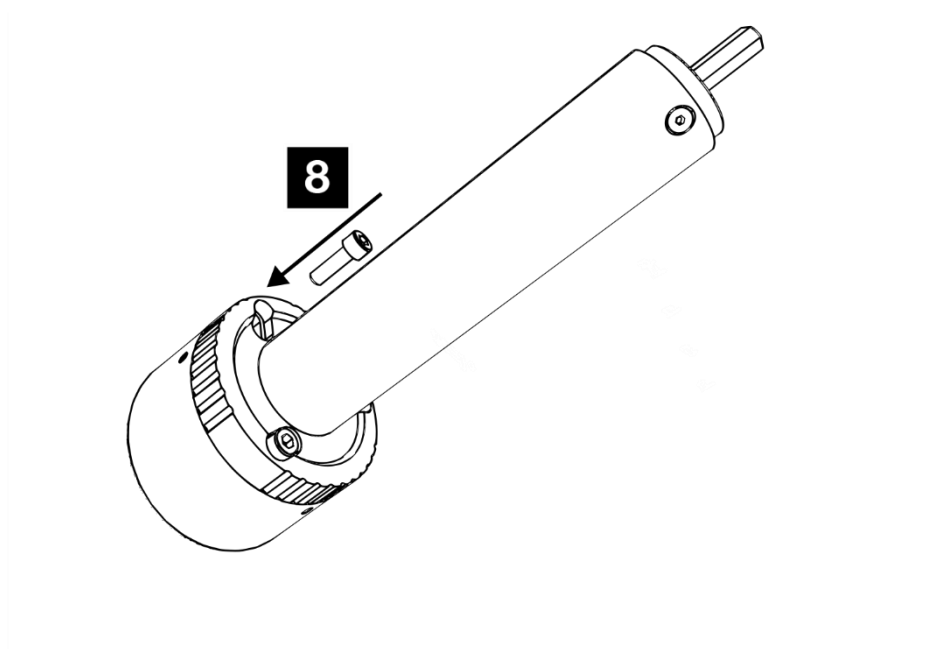


image 13

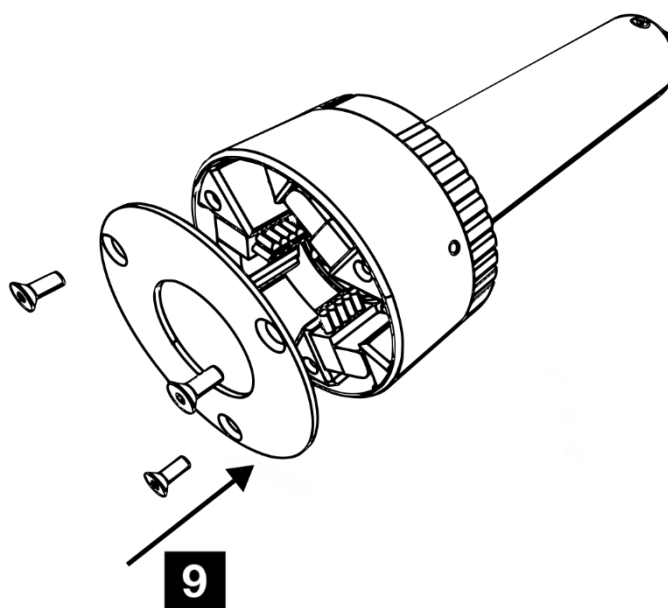


image 14

CAUTION

BEFORE USE, CHECK THAT ALL FASTENERS ARE PROPERLY TIGHTENED AND FITTED



7. Transport and storage

7.1. General instructions for transport and storage

7.1.1. Transport

CAUTION

TRANSPORT THE EXTERNAL THREAD CLEANER WITH CARE

DO NOT DROP THE DEVICE AND AVOID BUMPING INTO OTHER OBJECTS

7.1.2. Storage

CAUTION

STORAGE IN A DRY PLACE AND UNDER NORMAL AMBIENT TEMPERATURES

8. Failures

8.1. General instructions for malfunctions

WARNING

PERFORM MAINTENANCE ONLY IF THE ARK EXTERNAL THREAD CLEANER IS NOT MOUNTED ON A DRIVE DEVICE



8.2. Troubleshooting

Try to find a solution to the problem using the table below.

- See also table 1 page 24

Please contact the local **BoltClean representative** if you are unable to find a solution.

Issue/Status	Possible cause	Solution
Adjusting ring comes loose	Locking screws not sufficiently tightened	Tighten locking screws - See also § 3.2.1 page 7 - See also @ image 2 page 8
Adjusting ring is stuck	Locking screws not sufficiently loosened	Loosen locking screws - See also § 3.2.1 page 7 - See also @ image 2 page 8
Press brushes too low	Adjustment is too wide	Tighten the cleaning head - See also § 4.2.2 page 14
Press brushes too high	Adjustment is too tight	Adjust the cleaning head more widely - See also § 4.2.2 page 14
Poor or uneven cleaning	Worn brushes	Replace the cleaning brushes - See also § 6.3 page 17

table 1

CAUTION

ALWAYS CONTACT BOLTCLEAN IF

- MALFUNCTIONS CANNOT BE EASILY REMEDIED
- FAILURES NOT LISTED IN THE TABLE ABOVE OCCUR



9. Decommissioning

9.1. Temporary decommissioning

If the device does not function correctly, it is recommended to temporarily take it out of use to prevent unintended use and/or deployment of the device. This so that it can be repaired or sent for repair. Temporarily taking it out of use can be done, for example, by labeling the device and/or applying other clear markings so that it is recognizable to everyone that the device cannot and may not be used.

9.2. Permanent decommissioning

When the device has reached the end of its service life, it must be taken out of service permanently to avoid dangerous situations. The device must be completely disabled so that it can no longer be deployed and/or used.

- See also § 10 page 25

10. End of life

If the device has reached the end of its lifespan, it must be dismantled and disposed of in accordance with local (environmental) legislation.

INFORMATION

- CHECK DISASSEMBLED PARTS FOR POSSIBLE REUSABILITY
- DISPOSE OF THE (REUSABLE) MATERIALS IN ACCORDANCE WITH LOCAL (ENVIRONMENTAL) LEGISLATION



Annex A: (EU) Declaration of Conformity



(EU) Declaration of Conformity

Manufacturer Details

Trade name

BoltClean B.V.

Address

Platinawerf 8, 6641 TL Beuningen, The Netherlands

Product Details

Product Name

ARK external thread cleaner

Definition

Mechanical device for cleaning threads, bolts, studs and stud ends

Model / Serial number(s)

ARK-3042 | Sn.: BC2X-XXXX

Guideline(s) applied

2006/42/EC - Machinery Directive

Statement

We hereby declare that the above product
(series) complies with the guidelines/standards
mentioned in this declaration.

Managing Director
C.M. van Kortenhof

Date:
20.11.2025

BoltClean B.V.

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Document history

Date	Version	Remark
25.11.2025	001	1st publication

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