BoltClean

ARM external thread cleaner

User manual

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1. About the document

1.1 Purpose of the document

The document shows the information to do these steps:

- Install the equipment.
- Operate the equipment.
- Maintain the equipment.

The document contains the original instructions for the BoltClean ARM external thread cleaner, to which is referred with the term 'tool'. The term 'equipment' is used as a more general term to refer to the entire system: the tool, its parts, and its accessories, including the drive unit.

1.2 How to work with the document.

- Read the document completely. Make sure that you understand all the instructions.
- Obey the safety instructions to prevent injury or damage to equipment.
- Do the procedures completely and in the given sequence.
- Keep a copy of the latest version of the document and all related documents near the equipment.

1.3 Languages

The original language of the document is English. All other language versions are translations of the original instructions.

1.4 Illustrations

It is not always possible to provide a detailed illustration of every single item of the equipment. The illustrations in the document show a typical setup and are for instructional use only.

1.5 Safety symbols in the document

Safety symbol	Function	Description
	Warning	"Warning" means that injury or death is possible if you do not obey the instructions.
	Caution	"Caution" means that damage to equipment is possible if you do not obey the instructions.
	Note	"Note" is used to give additional information.

1.6 Related documents

Document name	Target group
ARM external thread cleaner user manual	Personnel who operate the equipment

1.7 Revision history

Date	Revision number	Comment
26-11-2023	001	First version

1.8 Contact information

BoltClean
Platinawerf 8
6641 TL Beuningen
Nederland
Telephone: +31 (0)24 3660660
Website: www.boltclean.com
E-mail: info@boltclean.com

2. Safety

2.1 General safety instructions

2.1.1 Personnel

- Do not allow unqualified personnel to perform tasks on or with the equipment.
- Keep unqualified personnel, children, and animals away from the equipment.
- Wear personal protective equipment (PPE): safety helmet, safety goggles, hearing protection, safety gloves, safety shoes and overall.
- Keep loose clothing, long hair, and jewelry away from the moving parts.
- Stay alert. Use common sense. Do not use the equipment under the influence of mood-altering substances.
- Always stand in a firm position.
- Do not hold the tool during operation.
- Keep your hands away from the nut or the bolt being loosened or tightened.
- Make sure that the tool and the pump unit are operated by the same operator. If the tool and the pump unit cannot be operated by the same operator, make sure that good communication is maintained between the operators.
- Obey the local labor and safety laws and environmental regulations.

2.1.2 Work area

- Keep the work area clean and well lit.
- Keep the work area free of unwanted obstacles. Ensure free passages in the work area during operation.

2.1.3 Equipment

- Only use equipment that is approved by BoltClean.
- Only use equipment that is appropriate or compatible with the BoltClean equipment.
- Do not modify the equipment in any way.
- Inspect the equipment for visual damage before each use. Obey the instructions for maintenance of the equipment.
- Do not remove or disable the safety provisions on the equipment.
- Make sure that the cover plates are not damaged and installed correctly. All BoltClean tools are equipped with cover plates to cover moving parts. If cover plates are missing or damaged, contact your local BoltClean representative for repair.
- Do not apply more pressure to the equipment than the maximum allowable pressure.
- Do not expose tools or equipment to extremely high or low temperatures.
- Do not use power cables or air hoses to carry or move the equipment. Always hold both teh tool and the drive to carry or move the equipment.
- Store tools and accessories which are not in use properly.

Qualified personnel

The term ‘qualified personnel’ refers to persons who thoroughly understand the equipment and its safe installation, operation, and maintenance. Qualified personnel are physically capable of performing the required tasks, familiar with all relevant safety instructions and regulations and trained to safely install, operate, and maintain the equipment. It is the responsibility of the company operating the equipment to see that the personnel meet these requirements.

Liability

BoltClean cannot be held responsible for injury or damage that results from unintended use of the equipment. The equipment is designed and intended only for the purpose described in the relevant documents. Uses not described in the relevant documents are considered unintended uses and can result in injury or damage.
Unintended uses include:

- Using equipment that is not approved by BoltClean.
- Using equipment that is inappropriate or incompatible with the BoltClean equipment.
- Altering or modifying equipment in any way.

Allowing unqualified personnel to perform tasks on or with the equipment.

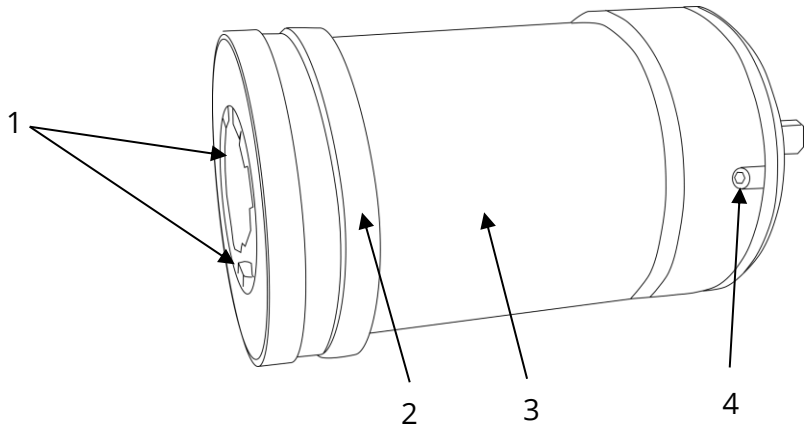
3. Description

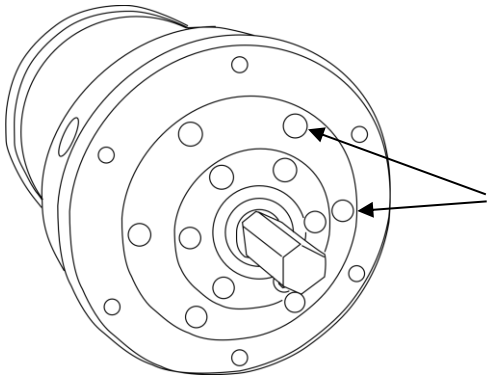
Intended use

The BoltSafe ARM external thread cleaner is a tool designed to clean bolts and studs.

Overview ARM cleaning head

1. Brushes
2. Adjustment ring
3. Housing
4. Side locking screw

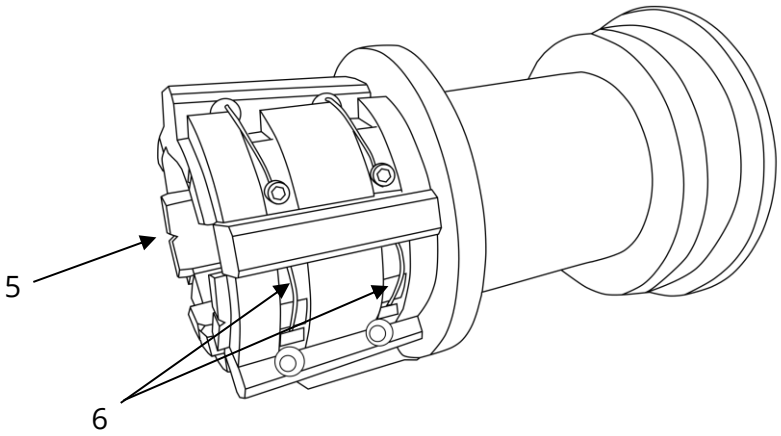




Cleaning head with housing removed

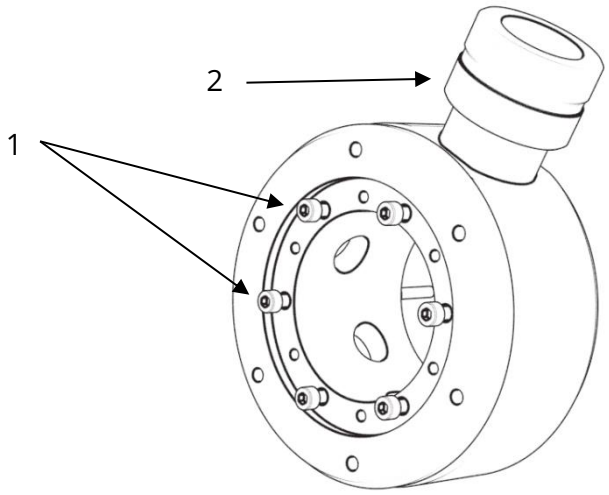
5. Marker

6. Springs

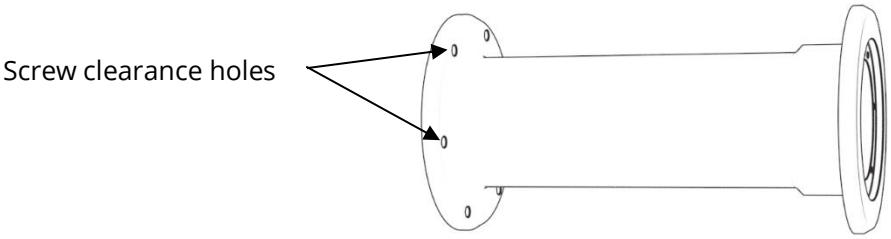


Overview dust extractor

1. Bolts
2. Exhaust



Overview extension



4. Procedures

Mounting the brush head on the drive

For the following procedures please refer to the manual of the drive:

- Setting the maximum rotation speed. (The maximum rotation speed in RPM is engraved in the casing)
- Setting the rotation direction to *clockwise*

Adjusting the cleaning head

For effective cleaning of a bolt or stud, the cleaning head can be adjusted to the diameter of the bolt or stud.

1. Unscrew the side locking screw.

With the ARG cleaning head with the brushes facing away from you, rotate the housing:

- Clockwise = smaller diameter
- Counterclockwise = larger diameter

2. Rotate the housing until the marker between the brushes aligns with the desired stud diameter.
3. Retighten the side locking screw, such that the adjustment ring cannot be rotated any further.

Cleaning a bolt or stud

1. Make sure the bolt or stud is free from excess dirt and grease. If not, clean the bolt or stud using a dry cloth.
2. Place the brushes against the stud or bolt.
3. Activate the drive by pulling the trigger and holding it firmly.
4. When approaching the end of the thread, release the trigger.
5. Switch the rotation direction to counterclockwise.
6. Activate the drive by pulling the trigger and holding it firmly.
7. Repeat step 3 to 6 until the thread is clean.

Replacing brushes

1. Loosen the side locking screw and the two counter sunk screws on the housing.
2. Hold the cleaning head with the brushes facing away from you and remove the core from the housing.
3. Pull the brush from the springs.
4. Place replacement brushes into the springs.
5. Repeat step 3 and 4 for each brush that needs to be replaced.
6. Place the core back in the housing.
7. Close the housing by fastening the two counter sunk screws on the housing, followed by the side locking screw.

Mounting dust extractor

1. Remove the end cap from the cleaning head by removing the 6 end cap screws, and store them

securely. This creates an opening.
2. Place the dust extractor where the end cap used to be.
3. Place the end cap on the dust extractor and tighten both with the 6 screws supplied with the dust extractor.
4. Connect the hose of an industrial vacuum cleaner to the exhaust.

Mounting an extension

1. Remove the end cap from the cleaning head by removing the 6 end cap screws. This creates an opening.
2. Place the extension on the brush head as such that the screw clearance holes in the extension are aligned with those in the cleaning head.
3. Fix the extension tightly using the 6 bolts provided with the extension.
4. Place the end cap on top of the extension and fix it with the 6 end cap screws.

Mounting both dust extractor and extension

1. Follow the procedure for mounting the dust extractor up to step 3.
2. Place the extension on the dust extractor.
3. Follow the procedure for mounting the extension from step 2.
4. Connect the hose of an industrial vacuum cleaner to the exhaust.

5. Maintenance and storage

- Replace the brushes when they show signs of wear.
- Clean the cleaning head and accessories after every use.
- Store the tool in dry location, at ambient temperatures.

6. Technical specifications

Model	ARM 06-22	ARM 23-42	ARM 43-64	ARM 64-88
Cleaning range metric	M6-M22	M23-M42	M43-M64	M64-M88
Cleaning range imperial	1/4" – 7/8"	7/8" – 1 5/8"	1 5/8" – 2 1/2"	2 1/2" – 3 1/2"
Outside diameter	80 mm	105 mm	133 mm	150 mm
Max. RPM	500 RPM	500 RPM	500 RPM	300 RPM
Weight	1,55 kg	2,16 kg	2,95 kg	3,87 kg
Cleaning length	200 mm	200 mm	200 mm	200 mm
Drive adapter size	13 mm	13 mm	13 mm	16 mm
Number of brushes	4	5	5	5

7. Declaration of conformity