

***Bona***<sup>®</sup>

Operating Instructions  
Bona OptiSpread 100  
Battery

Valid as of October 2014

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## 1. Foreword

Congratulations on purchasing our Bona OptiSpread 100 Battery. The Bona OptiSpread System will enable you to apply Bona parquet adhesives in 5400 ml tubular bags in a simple and ergonomic manner.

And the Bona OptiSpread 100 Battery is now even more user-friendly. In addition to the large filling tube and the wide coating nozzle, application of Bona adhesives is no longer dependent on compressed air due to the new battery drive, which means transport and connection of a separate compressor is no longer required. By using the two batteries enclosed, you can now execute your work on site without delay.

Please read these Operating Instructions carefully and thoroughly before using your new Bona OptiSpread100 Battery for the first time to ensure ideal, safe use. Please keep these operating instructions in a safe place, ideally together with the purchase receipt.

We hope you enjoy using your new Bona OptiSpread 100 Battery.

**Bona**<sup>®</sup>

These operating instructions have been prepared very carefully and thoroughly. However, we reserve the right to optimize and technically upgrade the instructions at any time. Illustrations may deviate from the original. Status: May 2014

## 2. Important Information

### 2.1. EC Declaration of Conformity

We herewith declare that the machine described in the following complies with the fundamental safety and health requirements of the EC Directive 2006/42/EC in terms of design and construction as well as the model we have launched on the market. The validity of this declaration expires if any alteration is made to the machine which has not been agreed to by us. EC Manufacturer Declaration pursuant to Machinery Directive 2006/42/EC, Annex II A.

#### **Manufacturer/Distributor:**

Bona GmbH Deutschland  
Jahnstraße 12  
65549 Limburg

#### **Description and Identification of Machine:**

Product names: Bona OptiSpread 100 Battery  
Year of construction: From May 2014  
Article number: AT32046046  
Series/Type name: Bona OptiSpread 100 Battery

#### **The following harmonized norms have been applied:**

**EN 61310-2:1995** Safety of Machines – Displays, Labeling and Operating – Part 2: Requirements concerning Labels (IEC 1310-2:1995)

**EN 61310-3:1999** Safety of Machines – Displays, Labeling and Operating - Part 3: Requirements concerning the organization and operation of Control Units (actuators) (IEC 61310-3:1999)

**EN 614-2:2000** Safety of Machines – Ergonomic Design Principles – Part 2: Interaction between Design of Machines and Work Tasks

**EN 55014-1:** Electromagnetic Compatibility – Requirements concerning household devices, power tools and similar electric devices – Part 1: Emitted interference

**EN 55014-2:** Electromagnetic Compatibility – Requirements concerning household devices, power tools and similar electric devices – Part 2: Interference immunity

**EN60745:** Hand-operated motor-driven power tools – Safety – Part 1: General requirements



Dr. Thomas Brokamp  
VP & Director Div. Fastening



Torben Schuy  
Product Management

## Warranty

Bona GmbH Deutschland grants a warranty of 24 months for this product. Material or production errors identified on this device will be rectified by Bona during this period free of charge.

The warranty does not cover errors and faults which are not caused by material and production errors, e.g.

- Transport damage of any kind
- Faults due to incorrect installation
- Faults caused by inappropriate use of the device
- Faults resulting from improper handling
- Faults resulting from improper execution of repair work or repair attempts made by persons and/or companies not authorized by Bona
- Normal operational wear and tear  (e.g. adhesive nozzles)
- Incorrect cleaning of components
- Our warranty does not cover devices whose serial number has been falsified, changed or removed.

The warranty claim expires if components which have not been approved by Bona GmbH are installed into the device. Claims exceeding free rectification of faults and errors, e.g. claims for damages, are not included in the scope of this warranty.

Please make a note of the serial number of your Bona OptiSpread 100 Battery, which is located on the bottom lid of the device:

Purchase date \_\_\_\_\_

Serial number (please enter) \_\_\_\_\_

Please specify this serial number, together with the purchase date and invoice number, if you have any questions, ideas or complaints.

## 2.2. What you must know about these Operating Instructions

Please pay special attention to the notes printed in bold lettering in these operating instructions. These are very important for ensuring correct use of the Bona OptiSpread 100 Battery. Information provided in brackets is of a general nature and for better understanding of the respective instruction.

### **Importance of the Operating Instructions**

The operating instructions are part of the product. Before using the device for the first time, read the instructions carefully, as well as the brief instructions, to ensure you are familiar with the Bona OptiSpread 100 Battery and will be able to use the tool efficiently. The operating instructions must be kept for the entire service life of the Bona OptiSpread 100 Battery and passed on to subsequent owners and users.

### **Working instructions**

Some parts of these operating instructions comply with working instructions. This especially applies to instructions concerning how to use the device and concerning protection measures, described in items 5 – 9.

## 2.3. Signs and Symbols used in the Operating Instructions

Caution: Danger! Safety instructions marked with this symbol must be observed. Non-observance can lead to serious damage to health and extensive material damage.



Information. Under this sign you will find useful tips and information.



### 3. Scope of Application and Product Description

#### 3.1. Appropriate Use

Bona OptiSpread 100 Battery is a parquet adhesive application unit which has also been developed for the application of the highly viscous adhesive, Bona R850T. Other adhesives made by Bona GmbH Deutschland can also be squeezed from the 5400 ml foil bag. This device will help you carry out your work faster, easier and, above all, more ergonomically.

By actuating the On/Off switch, the adhesive is pressed out of the nozzle and can be applied quickly and evenly onto the respective undersurface.

The adhesive is pressed simply and evenly out of the adhesive nozzle via the ElektraFlow drive. The amount of adhesive applied can be adjusted individually for each work process via the various toothing, the speed of application and/or the feed rate.

#### 3.2. Technical Data Bona OptiSpread 100 Battery

Length:	1378 mm [toothed rack retracted] 2398 mm [toothed rack extended]
Weight (empty):	12 Kg [filled approx. 20 Kg]
Inside diameter	
Filler tube:	100 mm
Tubular bag size:	5400 ml
Nozzle:	PVC adhesive nozzle with toothing 1250 G (TKB B12) (optionally available 1500 F/G)
Application width:	500 mm
Adhesive:	Bona silane adhesive e.g. Bona R850T, R848 or Bona R870

#### 3.3. Technical Data Battery

Type:	Battery NiMH
Voltage:	14.4 Volt
Supply voltage:	110-230 V
Charging time:	approx. 60 minutes
Range:	approx. 60-80 m <sup>2</sup>

## 4. Product Safety Notes

### 4.1. Device Safety



Incorrect use of the device, accessories and electrical components can cause health damage, material damage and can lead to malfunctions and damage to the device. The device must only be used for the appropriate purpose specified.

Before using the tool for the first time, please read the operating instructions carefully and familiarize yourself with the product. This is essential to ensure safe and perfect operation of the device.

### 4.2. General Safety Notes



General safety and accident prevention regulations must be observed! In addition to instructions specified in these operating instructions, the general safety and accident prevention regulations specified by law must be observed. Keep your work area tidy! Untidiness in the work area can cause accidents.

Pass the operating instructions on to third parties. Make sure third parties only use this device after receiving the instructions required.

Handle and operate your Bona OptiSpread 100 battery with care at all times.

The Bona OptiSpread 100 Battery must only be used by specialists or specifically trained staff. If it is used by unqualified staff, this may result in serious operating errors and personal injury.

**Keep the device out of reach of children and ensure prevention of unauthorized use. Never leave the operative or used device unsupervised. Do not allow any children near to the device. It is forbidden for children to use this device. Ensure the product cannot be used by unauthorized persons.**

Look out for any damage to the device. Before use, check the device for any damage. If damage to the device is identified, it must not be used.

Do not use any sharp items. Never insert any sharp and/or metallic items into the inside of the device.

The Bona OptiSpread 100 Battery must only be filled with Bona saline adhesive in a foil bag 5400 ml. The machine must not process any non-system adhesives. This will result in the exclusion of all warranty claims. Make sure the temperature of the adhesives corresponds approximately to room temperature. Cold adhesives are more viscous which results in higher battery consumption and strain for the feeding unit. Therefore, always acclimatize the adhesive sufficiently before processing.



CAUTION! When not using the Bona OptiSpread 100 Battery, store it in the holder provided. Select a location where there is no risk of tripping or falling.

Only use the Bona OptiSpread 100 Battery when the nozzle is unscrewed and secured!

Avoid injury by ensuring your hands do not come close to the piston or feed unit. Never use grease or other lubricants such as e.g. fats or oils for the working piston!

Only use original accessories! Do not execute any repair work. If repair work is required, contact your Bona system engineer or our Service Hotline.

Do not use inappropriately: the machine has been designed exclusively for the application of Bona parquet adhesives from foil bags!

When folding the stand from the parking position, avoid any risk of crushing of fingers and hands! Wear appropriate clothing. Do not wear any loose clothing or jewelry. If you have long hair, bind it together. Keep your hair, clothes and movable items away from the device. Loose clothing, jewelry and long hair may get caught up in the moveable parts.

Only apply the adhesive to the respective work positions! Avoid contact to sensitive and finished surfaces.

### 4.3. Safety Notes for handling battery-operated Tools



Power tools must **NOT** be exposed to rain or wetness. There is increased risk of electrocution if water penetrates into an electrical device.

Keep your power tools in a safe place! Unused power tools and battery packs should be stored in a dry, elevated or closed location, outside the reach of children.

Check the connector and cable of the power tool regularly, and have it replaced by a qualified electrician in case of damage. Check the extension cable regularly and replace it if damaged. Keep the handle dry and free of oil and grease.

Have your power tool repaired by a qualified electrician! This power tool complies with relevant safety regulations. Repair must only be carried out by a qualified electrician. Only original spare parts must be used, otherwise the user may be subject to accidents.

The battery must only be charged using the charger provided. Make sure the power supply is suitable for the charger provided. Make sure the battery is correctly aligned and correctly inserted in the charger. Do not try to open batteries or the charger. They do not contain any repairable items.

## 5. Scope of Delivery and Operation

### 5.1. Scope of Delivery

Check completeness of delivery in accordance with the scope of delivery before using the device for the first time. If any parts are unexpectedly missing, please report this immediately to your respective Bona system consultant or contact our Service Hotline on +49 (0) 180-42 66 283

Scope of Delivery Bona OptiSpread 100 Battery

Quantity	Part
1	Bona OptiSpread 100 Battery
1	Battery charger (mains connection)
2	14.4 NiMH battery packs
3	Nozzles 1250 G ( <i>optional: 1500 G</i> )
1	Nozzle head
1	Support block
1	Hook wrench
1	Transport bag

We recommend the use of pincers to open the tubular bag. These are not included in the scope of delivery.



## 5.2. Operation

### 5.2.1. Charging the Battery

The battery packs supplied are delivered with a low level of charging ex-works to avoid possible problems. They must be charged before using, until the green LED on the front side of the charger lights continuously.

When the charger is connected to the mains, the red LED lights up. On inserting the battery, the green LED flashes to show that the battery is now being charged. When the green LED lights continuously, the charging process has been completed.

A red flashing LED indicates that the battery is defective. The cause of this could be that the battery is hot, cold or damaged. Separate the respective battery from the charger and wait 30 minutes before trying to charge the battery again.

**!** **Note:** If the charger does not charge the battery under normal conditions, please contact the Bona Service number provided.

**■** **Note:** When being charged the first time, batteries do not charge up completely. Several cycles are required to achieve complete charging.



The battery must only be charged using the charger provided.

Make sure the power supply is appropriate for the charger provided. Make sure the battery is correctly aligned and has been correctly inserted in the charger.

Do not try to open batteries or the charger. They do not contain any repairable parts.

**RED LIGHT – CHARGER SUPPLIED WITH POWER**  
**FLASHING RED LIGHT – BATTERY IS HOT, COLD OR DAMAGED**  
**GREEN LIGHT – BATTERY IS FULLY CHARGED**  
**FLASHING GREEN LIGHT – BATTERY IS BEING CHARGED**

**As soon as the battery has been completely charged, the Bona OptiSpread 100 battery can be used.**

### 5.2.2. Filling/Replacing Tubular Bag

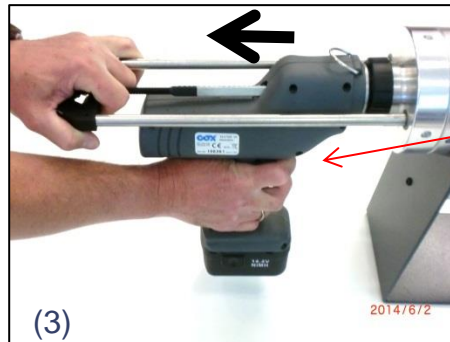
Place the machine on the support block provided if you need to fill the Bona OptiSpread 100 Battery or to replace an empty tubular bag. Secure the machine at the head end using the clamping rubber.

**NEVER PUT THE BONA OPTISPREAD 100 BATTERY DOWN ON THE RACK. THIS MAY LEAD TO MALFUNCTIONS!!**

1. Twist off the nozzle head fastened to the filler tube with a lock nut, and place to one side.
2. Remove the empty tubular bag
3. Unlock the toothed rack and pull out completely using the hook grip
4. Insert a new tubular bag horizontally and remove the clip. Make sure the bag does not bend when you insert it.
5. Screw the nozzle head back on, release the clamping rubber and remove the machine from the support block. When putting on the nozzles, make sure the sharp end of the tothing is pointed upwards.



(1)  
Unlock



(3)



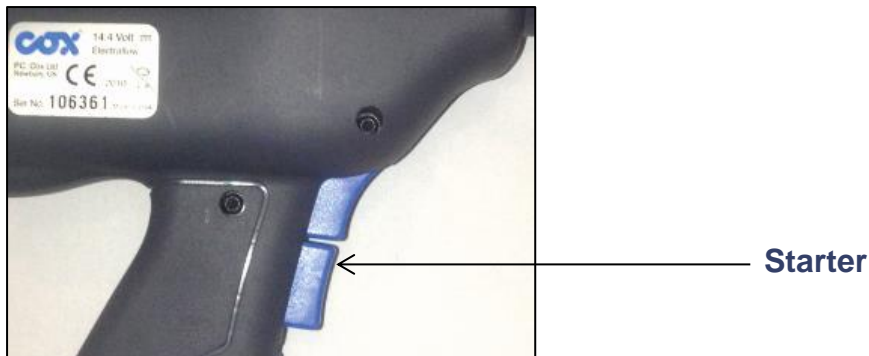
(4)



(4)

### 5.2.3. Applying adhesive

Place the full Bona OptiSpread 100 Battery on the nozzle head, press the starter and step back.



The amount of adhesive applied depends mainly on your speed of motion, the nozzle size and the feed which can be adjusted continuously from **1-9**.

#### **Note:**

When squeezing from a new nozzle for the first time, it takes a little time before the adhesive comes out of the openings.

If you let go of the starter, application of adhesive is stopped immediately. The piston is slightly retracted (audible). Exact and dosed application of adhesive is possible.

#### Tubular bag

If possible, try to ensure that the adhesive bag is completely emptied. If this is not possible, the partially used tubular bag can remain in the machine for up to 12 hours. The machine must be stored horizontally.

If work is interrupted for a longer period, the partially used bag should be removed and closed using a cable tie. When required, this closed bag can then be used again.

Depending on the age of the foil bag, gas pressure may develop inside the bag which results in a swelling of the foil. This may make insertion more difficult. We recommend that the foil be pricked with a needle close to the clip. Surplus pressure can then escape. However, this has no effect on the respective adhesive.

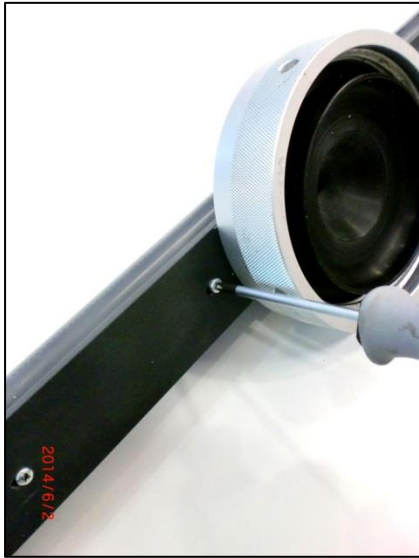
#### Nozzle

If work is interrupted for a longer period (up to 12 hours), adhesive which has come out on the nozzle toothing will harden. We recommend that such surplus adhesive be removed using Bona Tool Cleaner and that the outlets be covered with adhesive tape.

In case of longer interruptions, the nozzle has to be cleaned or, if required, replaced with a new one. Hardened adhesive must not be pressed out by squeezing new adhesive behind it. This may cause damage to the drive or serious fouling.

#### 5.2.4. Replacing the Nozzle

1. Unscrew the fastening screws on the underside, remove the nozzle and dispose of the nozzle.
2. Place on a new nozzle and fasten using the fastening screws.
3. If there is any hardened adhesive in the feed channel and the inside of the nozzle base, this must be removed manually.
4. Liquid adhesive need not be removed



#### 5.2.5. Undersurface Quality

To ensure ideal application and functioning of the adhesive, the undersurface must be ready for use and comply with the requirements of DIN 18356. If necessary, appropriate action must be taken to prepare the undersurface to ensure it is suitable for use. Respective Bona products can be found in our extensive product portfolio.

## 6. Maintenance and Cleaning

### 6.1. Maintenance

When used correctly and with care in accordance with the operating instructions, the Bona OptiSpread100 battery is maintenance-free.

### 6.2. Cleaning

The Bona OptiSpread 100 Battery has been factory-fitted with a PTFE working piston. It is not permitted to use any lubricants, greases, oils or any other similar products. The inside of the tube must only be cleaned with compressed air or with a clean, lint-free cotton cloth or with Bona Tool Cleaner.

The upper side of the filler tube and the outer thread are usually subjected to most fouling as a result of fresh adhesive which deposits in small amounts on the thread and the inside of the filler tube when replacing the tubular bag. Such fresh adhesive fouling should be removed immediately using Bona Tool Cleaner, since accumulation of adhesive in the thread turns or the inside of the tube may lead to accidental adhesive bleed.

**!** Regular cleaning of respective parts of the machine ensure enduring functioning of the Bona OptiSpread 100 Battery and less cleaning required when you have completed your work!

### 6.3. Cleaning the Adhesive Nozzle

The adhesive nozzle is designed as a non-return nozzle which can be disposed of after you have completed your respective project. However, the nozzle can also be used repeatedly. No specific range can be specified, since the nozzle has a long service life on account of the hard-wearing material and in the case of regular cleaning and correct handling.

**!** After thorough cleaning, the nozzle can be used repeatedly. Cleaning should be carried out as follows:

- Dismantle the nozzle as described in item **5.2.4**.
- Remove the side caps of the nozzle and remove any unhardened, fresh adhesive. This can be carried out easily by using a rod or cloth pulled through the tube.
- Clean the inside using several Bona Tool Cleaner cloths by pulling them through the nozzle.
- It is easiest to remove residual adhesive in the tothing when the adhesive has hardened. Make sure you do not damage the tothing form by using sharp and pointed items so as to ensure lasting, even adhesive bleed.
- The adhesive outlet at the nozzle shoe should also be cleaned using Bona Tool Cleaner.

## 7. Storage and Transport



## **7.1. Correct Storage**

Always store the device in a horizontal position in the original packaging.

In the case of a longer period of interruption from work of up to 12 hours, the nozzle of the Bona OptiSpread 100 Battery can remain on the machine. Partially used adhesive foil bags can also remain in the machine. The nozzle must be cleaned on the outside with Bona Tool Cleaner. The section where adhesive comes out must be cleaned thoroughly. Toothing must then be covered with adhesive tape or the entire nozzle must be closed air-tight.

The machine can be stored horizontally or transported in this condition for up to 24 hours without risk of drying.

In the case of longer storage (> 24 hours) the nozzle must be removed from the tube. If a foil bag is still in the machine, it must be pressed empty or removed. The adhesive nozzle is designed as a non-return nozzle and can be disposed of on completion of the respective project. If required, the nozzle can be used repeatedly.

Avoid lengthy storage in damp or continuously wet and dusty places.

If the machine has been stored continuously or overnight at a temperature of under +10°C, the machine first has to be acclimatized to room temperature (≥ + 15°C) to ensure safe functioning of the piston.

## **7.2. Transport**

Always transport the OptiSpread 100 Battery in the original packaging provided.

When transporting the machine, make sure it is not damaged and score and fasten it to avoid any damage during transport.



## 8. Troubleshooting

Malfunctions are not to be expected, if the Bona OptiSpread 100 Battery is used and operated correctly and properly in accordance with the instructions and notes contained in these operating instructions.

However, if malfunctions do occur, you should examine possible sources of such errors:

### Battery

Is the battery fully charged? Partially charged batteries may lead to automatic shut-down of the feed due to incorrect identification of a malfunction. Always charge the battery completely! This also prevents a memory effect.

### Toothed rack

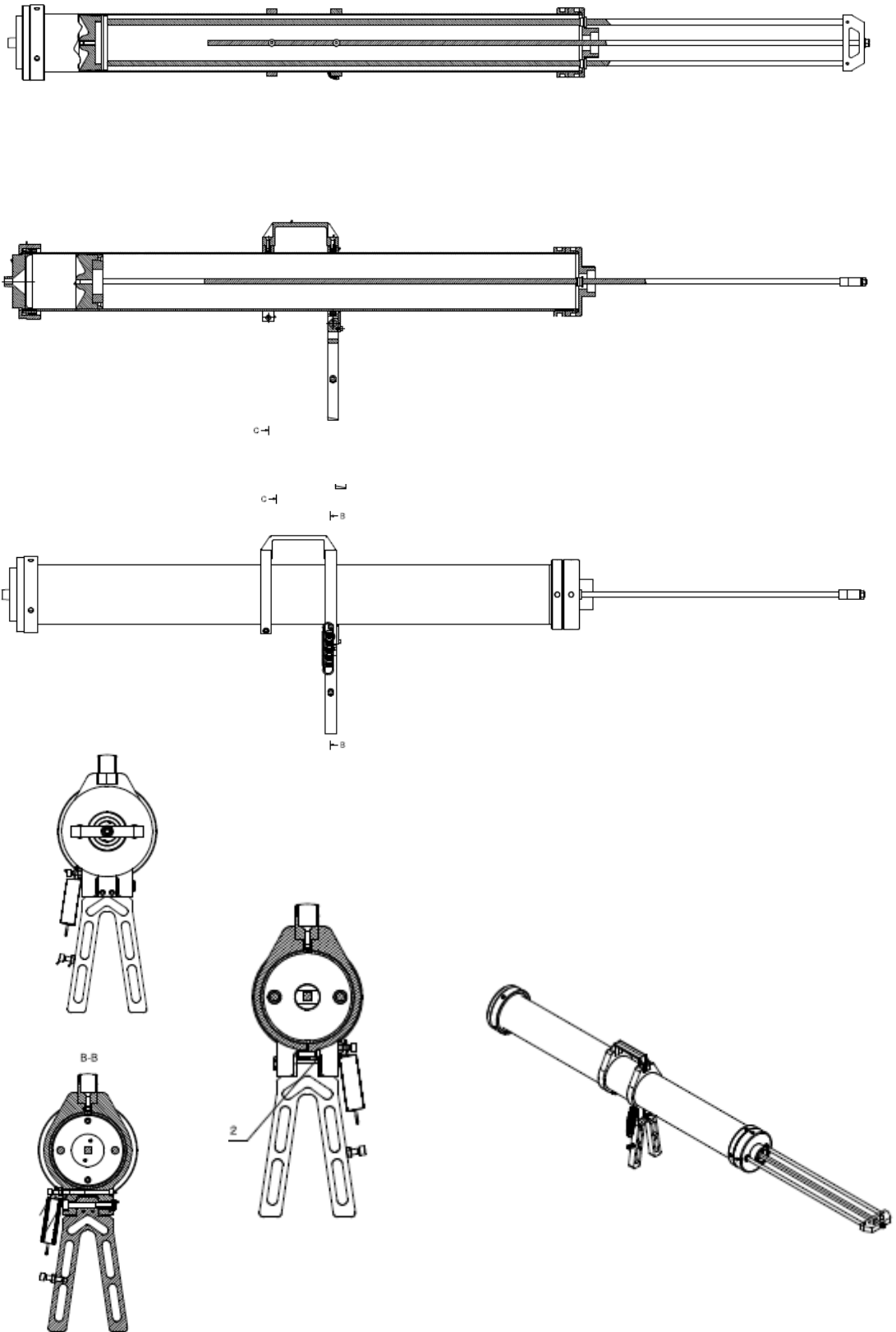
Is it bent or damaged?

Never put the device down on the rack.

### Residual adhesive

Is there any residual hardened adhesive in the machine/nozzle? If yes, remove it or replace the nozzle. Observe the notes specified in Chapter 5 and 6.

## 9. Technical Drawing



## **10. Service address**

Sales of spare parts and any repairs required are executed on behalf of and for the account of the company

**ARNOLD GmbH & Co. KG**  
**Post Box 1220**  
**35772 Weilburg**  
**+49 6471 93940.**

If you have any questions, ideas or unexpected complaints, please contact your Bona system consultant.

Please explain your issue in detail to him/her and provide the serial number which is on the lid of the Bona OptiSpread 100 Battery and the purchase date.

## **11. Disposal**

Adhesive guns, batteries and chargers must be disposed of in compliance with the respective regulations of your local waste management company.