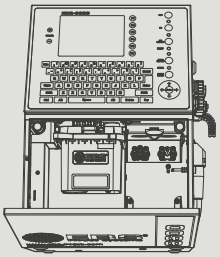
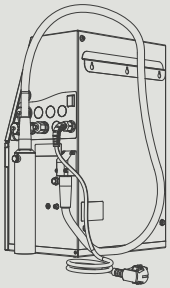
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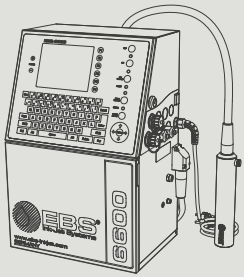
Boltmark®II

SAFETY AND IMPORTANT INFORMATION

Industrial CONTINUOUS INK-JET Printers







EN

You can find our user manuals at:
manual.ebs-inkjet.de

2026.08.19

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EN

Safety and Important Information

(Original instructions)

There are icons on the device that warn you of potential dangers.



Before using the **Boltmark®II** *printer, please read carefully the documentation that accompanies the printer as well as the data sheets for the consumables (**SDS**) that have been or will be used.*

This information brochure should be easily accessible and ready to use whenever the need to do so arises over the printer's entire service life.

The product delivered to you corresponds to your specific order, and it may happen that the options and functionality of your printing system differ from some descriptions or illustrations. As we need to keep pace with new technological advancement and wish to meet individual requirements of our clients, we reserve the right to introduce changes in the design and construction as and when necessary. Therefore, no claims can be made regarding differences in data, illustrations or descriptions contained in the accompanying documentation. Should your printer be equipped with options or software that are not illustrated or described in the accompanying documentation or should you have additional queries after having read the documentation, please contact any authorized representative of **EBS Ink Jet Systeme GmbH** for more information.

These instructions in the English language are the original instructions. In case of disputes, the English language version shall prevail. The instructions in other languages are translation of the original instructions.

The printer is accompanied by the following documentation:

- **User Manual** for the printer series **Boltmark®II** (EBS-6600, EBS-6900)*: contains a description of the printer, information on powering the printer on and off, starting and pausing printing, preparing text for printing, setting printing parameters, performing basic maintenance, troubleshooting, and the printer's technical specifications; the document is available in **PDF** format on the **USB** flash drive supplied with the device and on the website,
- **Basic User Manual***: contains a basic description of the printer, information on powering the printer on and off, starting and pausing printing, preparing print jobs, performing basic maintenance, and replacing consumables; the document is available in **PDF** format on the **USB** flash drive supplied with the device and on the website.
- **Safety and Important Information**: contains all information necessary for the safe installation, operation, transportation, and storage of the device; the document is supplied in printed form with the device and is also available in **PDF** format on the **USB** flash drive supplied with the device and on the website.

** The availability of language versions of the selected documentation and the method of its delivery with the device may vary depending on the country.*

DEFINITIONS

Ordinary person: any worker (different from an **instructed person**) who can operate the printer, have access to the printer or be near the printer.

Instructed person: a worker who has been instructed and trained by **a skilled person** or is supervised by **a skilled person**.

Skilled person: a member of the manufacturer's authorized service staff, who has specialist knowledge and experience in operating, maintaining and servicing printers.

INTENDED USE OF THE PRINTER

The **Boltmark®II** series printer is an industrial CIJ (Continuous Ink-Jet) inkjet printer that enables non-contact marking of objects moving (travelling, rotating) in front of the print head.

The printer is not intended for storing or processing personal data.

Any other use of the printer is prohibited. The user shall be responsible for any consequences resulting from such other use.

RESPONSIBILITY

EBS Ink Jet Systeme GmbH shall not be liable for damage or personal injury that might occur during installation, operation or servicing of **EBS Ink Jet Systeme GmbH** printers due to the failure to follow safety provisions as well as the industry-wide good manufacturing practices and safety standards.

EBS Ink Jet Systeme GmbH shall not be liable for any failure or damage caused by modifications to the printer or the application of the printer to purposes other than those for which it is intended. The user shall be responsible for taking any safety measures that are required each time **EBS Ink Jet Systeme** printers are used.

EBS Ink Jet Systeme GmbH consumables, spare parts, accessories and cabling, hereinafter referred to as components, are designed for operation with **EBS Ink Jet Systeme GmbH** printers and they are tested together with these printers according to the relevant regulations and safety standards.

The application of components that are not manufactured by **EBS Ink Jet Systeme GmbH** or are not recommended by the firm for use in a particular printer may be inconsistent with the testing conditions and may affect the printer's compliance with certain standards. The use of such components may impair specified printer parameters, properties or performance, cause incorrect printer operation or lead to damage to the printer, and it will void any warranty claims.

Every user who modifies or repairs **EBS Ink Jet Systeme GmbH** printers using components different than those supplied by **EBS Ink Jet Systeme GmbH** or whose specifications vary from the specifications provided by **EBS Ink Jet Systeme GmbH**, shall be aware that they do this on their own responsibility and therefore shall not be entitled to make claims under the terms and conditions of warranty.

EU DECLARATION OF CONFORMITY

This printer is accompanied by the EU Declaration of Conformity, which authorizes the manufacturer to mark the product with the mark

CE

The technical documentation on the basis of which conformity is declared is kept at the company's registered office.

SAFETY RULES

This equipment is not suitable for use in locations where children are likely to be present.

The printer should be operated by **instructed persons**.

It is recommended that the printer be supervised during operation.

An ordinary person can only perform basic operations such as:
- Selecting text for printing,
- Starting / pausing printing,
- Replacing consumables.

Any maintenance operations, including:
- cleaning the print head, as well as:
- moving a printer prepared for transport to another location,
- reinstalling a printer previously filled with ink.

can be performed by **instructed persons**.

Any service operations, including:

- installation and dismantling of the printer,
- operations requiring the opening or removal of any protective covers of the device other than the print head cover and the door of the consumables compartment

can be carried out by **skilled persons** only.

No efforts have been spared to design the printer diligently so that its operation is safe and reliable. However, the knowledge and observance of a few safety rules and precautions are the prerequisite for safe use of the printer.

- Do not print on objects whose temperature exceeds **100°C** (**212°F**) at the time of labeling.
- Perform any work on the electrical part of the device only with the power switched off.



- **Never** direct the printhead outlet towards persons or animals. Do not do that even if the printer is shut down.
- Wear protective clothing, wash-up / ink-resistant gloves and safety goggles to carry out any operations in the ink system and printhead.



- During installation/replacement of consumables, exercise caution to avoid being splashed and to prevent contamination of the printer and its surroundings.
- **WARNING: Sharp elements!** While replacing consumables be careful not to get wounded with the needle that is part of the consumable connection. **Do not touch the needles!** Avoid manipulations near the needles.



- Do not use plastic vessels for washing. Metal vessels or other vessels that do not collect electric charges are recommended.
- If you need to disconnect the electricity supply, detach the power cord from the mains or from the control unit. On printers equipped with the **ACPS®** system (anti-clogging power supply system), if an emergency shutdown of the printer is necessary, press and hold the CLEAR ALARM and press the OFF.



- Do not use the printer if it is not fully operational.

HEALTH / HYGIENE / ENVIRONMENT

IN CASE OF ACCIDENT

When ink / wash-up / solvent spills, wipe the spilled liquid with absorbent material and dispose of it following the fire and health and safety at work regulations.

Take the splashed clothes off as soon as possible.

When eyes and skin get irritated by ink / wash-up / solvent:

- **EYES** wash with running water until the irritant is removed, take out the contact lenses, if you are wearing them and can remove them easily, and continue washing, consult an ophthalmologist and show him / her the irritant **SDS**,
- **SKIN** wash with water and pH-neutral soap.

When swallowed, do not induce vomiting, contact a physician and show them the product's (**SDS**).

When inhaled, make sure that the sufferer has access to fresh air.

HAZARDS IN THE WORKPLACE

Certain consumables require that contact lenses should not be worn.

While cleaning with a wash-up, it is advisable to wear wash-up-resistant gloves and safety goggles.



All chemicals - including inks - can be dangerous and therefore shall be handled with care.

Maximum noise level emitted by the printer **< 70 dBA**

CONTROL OF ELECTROMAGNETIC INTERFERENCE

The **Boltmark®II** printer contains high-frequency transmitters and receivers. When switched on, the device receives and transmits high-frequency (HF) signals.

During operation, the printer control system continuously monitors the emission of energy transmitted by the device so that the required limits are not exceeded.

The **Boltmark®II** printer meets all technical requirements imposed by legislation concerning the impact of high-frequency energy on humans.

RADIO EQUIPMENT DIRECTIVE (RED) NO 2014/53/EU COMPLIANCE STATEMENT

EBS-IMS Ink Monitoring Systems (RFID@13.56MHz, ISO/IEC 14443 B):

- Working frequency: **13.56 MHz**.
- Maximum magnetic field strength of the transceiver at **10 m** from the printer: **-78.6 dBμA/m.**

FIRE PREVENTION

*Follow strictly the instructions that are given in the data sheet (**SDS**) for every type of ink, solvent and wash-up.*

The **Boltmark®II** printer uses flammable inks/solvents, the physical and chemical properties of which are listed in their material safety data sheets (**SDS**).

Place a fire extinguisher (designed for extinguishing electrical equipment and flammable wash-up fires) near the printer.



Do not use open flames or sparking devices in the printer work area.



Do not print in the areas where an explosion hazard exists.

Do not leave ink / solvent or a wash-up in open containers.

Before coming near printer or easily flammable liquids, touch a grounded, metal object to dissipate the electric charge that could potentially have collected on your body.

Route the vapour outlet through an unobstructed duct to the outside of the building.

Ensure good ventilation in the place where the printer is installed, especially around the print head and the vapour outlet in the printer housing, if it has not been routed outside, as well as in the place where consumables are stored.

Maintain a safe distance between the print head and the vapour outlet in the printer housing, if it has not been routed outside, and electrical installations or sources of sparks / flame.

RECYCLING

The management of consumable waste must comply with local regulations concerning waste management and the transport of dangerous goods.

WORKING ENVIRONMENT

Working temperature (for static operation)	**+5°C ÷ +40°C (+41°F ÷ +104°F)**
Working temperature (for dynamic operation)	**+15°C ÷ +40°C (+59°F ÷ +104°F)**
Relative humidity	**up to 90% without condensation**
Maximum height above sea level:	**2000 m (6561 ft)**

The use of certain inks may limit the temperature and humidity ranges (see the data sheet for a given ink).

HANDLING

The printer may be moved by **instructed persons**.

Printer (with no ink and solvent bottles)	≈ **12.5 kg** (**27.56 lbs**)
Ink bottle / Solvent bottle weight: Weight of the ink or solvent bottle	≈ **0.9 kg** (**1.98 lbs**)

The printer may only be transported in the vertical position, that is, in the operating position. During transport of the printer or of the **iModule®** alone, the **iModule®** transport lock must be closed. Opening the transport lock is permitted only after the printer has been placed at the work station. When carrying out the procedure for preparing the printer for transport, exercise caution to avoid injury from the needles forming part of the bottle connector.

INSTALLATION

Printers of the **Boltmark®II** series must be installed and used exclusively in an industrial environment where appropriate physical and logical measures are in place to restrict access only to authorized devices and persons. The customer is responsible for ensuring physical protection of the installation site, and access to the area where the printer is located must always be properly secured.

Relocation of the printer and its reinstallation may be carried out by an **instructed person** in accordance with the recommendations provided in **The User Manual**.

Basic and advanced installation (use of special types of ink, integration with a production line, operation with external devices, etc.) may only be carried out by a **skilled person**, who bears full responsibility for the installation.

CONDITIONS OF USE

WORKPLACE



Before use, the printer should be installed on a belt conveyor or another object that is firmly fixed to the floor, wall or another stable part of the structure with dedicated fixing elements. Dedicated racks can also be used.

The printer must be installed indoors in a well-ventilated area, away from heat sources, open flames, and sparks

The difference in level between the printer and the print head must not exceed **±2.5 m**.

The print head and the photodetector should be positioned in a place suitable for the objects to be marked; the print head should be placed in an area free from shocks and vibration.

The printer can be installed **in a vertical position only**. The printhead can be installed in any position.

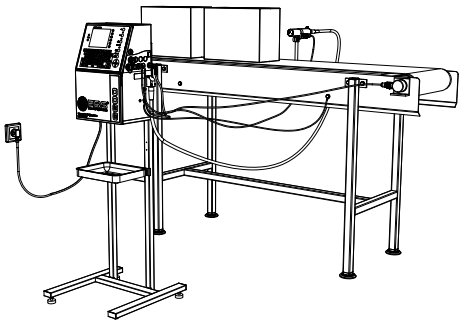
The lighting of the workplace must comply with local regulations.

The printer installation on the production line must not generate any risks for staff.

The area that surrounds the printer should be large enough to ensure that the operators as well as the maintenance and service staff can do their jobs.

For detailed information about installation see The **User Manual**.

The drawing below shows an example of how to install the printer on a belt conveyor.



CABLING

Clamps, clips or holders are recommended for fastening running cables.

The printer should not be installed where the cables (including the power cord) may be subject to mechanical stresses. The cables must be secured against any damage. They must not dangle or lay on the floor.

Minimum cable bend radius:
- **75 mm** for static operation,
- **150 mm** for dynamic operation.

The head cable insulation is not abrasion resistant. If the head cable is expected to come into contact with another object during operation or to operate dynamically, the printer should be ordered with additional, optional cable coating protection.

POWER SUPPLY

The main POWER switch on the accessory connector board should be easily accessible, as it serves as a safety switch.

Information on the printer's power supply conditions is provided on the rating plate. The printer must be connected to a power supply that complies with the parameters specified on the nominal voltage label. In case of any doubts regarding the available power supply, contact the service department of **EBS Ink Jet Systeme GmbH**.

Supply voltage	**100 V ÷ 240 V~, 50/60 Hz**
Current consumption	**0.6 A - 0.2 A**
Overvoltage category (OVC)	**II**
Electric shock protection class	**I**

The product is intended for use with **TN** power distribution systems.

The power supply circuit of the printer must be secured with a cut-out device, whose rated current is:
- max. **13 A for Great Britain and Ireland**
- max. **16 A for the EU countries**
- max. **20 A for the USA and Canada**,
- for the other countries - in compliance with the applicable regulations.

Connect the protective pin of the printer to a grounded element of the industrial plant, e.g. to a belt conveyor.

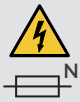
The printer comes with a grounded power cord. The grounding is used for ensuring safety. **The power cord must be connected to a grounded power outlet**. Efficiency of grounding shall meet the applicable standards.

The use of extension cords is not recommended. The use of extension cords that are not equipped with a protective conductor is prohibited.

The electrical installations upstream of the printer must comply with the applicable standards.

STATEMENT FOR SERVICE PERSONNEL

Electrical power supply module.



NOTE: Double-pole protection / fuse in the neutral conductor.

Before performing any service operation, disconnect the mains plug from the power supply.

The electronic board inside the power supply module has two fuses, **F1** and **F2**, which cannot be replaced.

The fuses are not replaceable or repairable by the user or by service personnel. A damaged power supply module must be returned in its entirety to the factory for repair.

INTERFACES

Ethernet

Cables used for connecting the printer to an **Ethernet** network shall be:
- unshielded,
- in conformity with the **Ethernet** requirements,
- CAT 5, as a minimum,
- not more than **100 m** (**328.08 ft**) in length.

The Ethernet interface cable connected to the printer must not extend outside the building. It must be connected to the network infrastructure inside the building.

The **Boltmark®II** series printer operates offline by default, without connection to a local network.

In exceptional cases, where a network connection is required, the printer may only be connected to a managed local network equipped with mechanisms protecting against unauthorised access and Denial of Service (DoS) attacks, e.g. using firewall devices.

RS-232 / RS-485

Cables used for **RS-232 / RS-485** communications should be:
- shielded,
- in conformity with the **RS-232 / RS-485** requirements,
- not more than **15 m (49.21 ft)** in length.

LOCAL INSTALLATION REQUIREMENTS

Requirements for the USA / Canada

The printer is not intended for use in server rooms.

Statement for Denmark

Apparatets stikprop skal tilsluttes en stikkontakt med jord som giver forbindelse til stikproppens jord.

Statement for Finland

Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan.

Statement for Norway

Apparatet må tilkoples jordet stikkontakt.

Statement for Sweden

Apparaten skall anslutas till jordat uttag.

Statements for China

The printer **is not designed** for operation at heights that exceed **2000 m** (**6561 ft**) above sea level.



仅适用于海拔2000米以下地区安全使用。

The printer **is not designed** for operation in tropical conditions.



仅适用于非热带气候条件下安全使用。

STORAGE

Store the printer in a dry place.

Printer storage temperature	**-5°C ÷ +50°C (+23°F ÷ +122°F)**
Consumables storage temperature	**+10°C ÷ +25°C (+50°F ÷ +77°F)**

The printer can be stored **in a vertical position only**.

The use of certain inks may restrict the range of temperatures at which the printer can be stored - see the **SDS** for a given ink.

Without performing any additional operations, the ink-filled device can be stored for up to **1 week**; after the appropriate procedure has been carried out, it can be stored for up to **9 months**.

For a longer storage period, the ink must be removed and the printer must be filled with solvent. Detailed information on preparation for storage is provided in the **User Manual**.

The use of certain inks may cause the specified period to change (see the ink technical data).

MAINTENANCE / FAULT FIXING

Maintenance operations should be performed by **instructed persons**, who wear suitable personal protection equipment (protective clothing, goggles, protective gloves, etc). Any maintenance operations that are not described in **The User Manual** can be performed exclusively by **skilled persons**.



Any **service** operations that require that protective covers of the printer be opened or removed should be performed exclusively by **skilled persons**.

Disconnect the printer from the power source before commencing any intervention that involves the removal or replacement of a part. Appropriate tools should be used only.



No sharp or pointed tools must be used for cleaning the printhead.

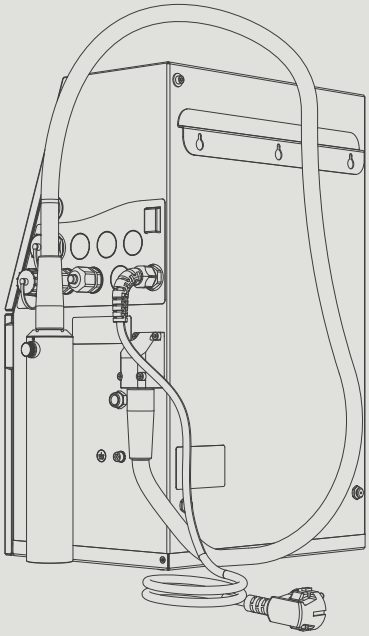
The printer has a non-replaceable lithium battery. Such a battery is potentially explosive and may release hazardous chemicals. Only a **skilled person** may open the electronics compartment containing the board with the damaged battery. The battery must not be crushed, punctured or thrown to a fire or to water to reduce the risk of fire or burns.

Version control

Version of manual	Date of issue
G2025/07/449_1EN	2026.08.19

G2025/07/449_1EN

EN



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