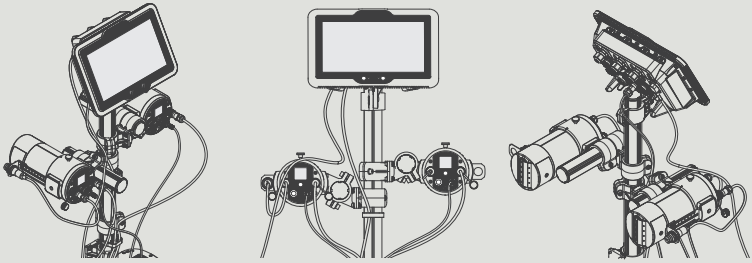
G2025/08/21_1EN

EBS Ink-Jet Systeme

bigJET® EBS-1800 SAFETY AND IMPORTANT INFORMATION

Industrial DROP-ON-DEMAND Printers



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

2026.10.08

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Safety and Important Information

(Original instructions)

There are icons on the device that indicate a warning of potential dangers and a reference to the instructions provided.



Before using the **bigJET®** EBS-1800 *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 entire service life of the printer.

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 **EBS Ink Jet Systeme GmbH** authorized representative for more information.

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

The printer is accompanied by the following documentation:

- **User Manual***: it contains a description of the printer, the information on how to switch it on and off, start / pause printing, prepare a project for printing, set printing parameters, perform basic maintenance and fix problems, as well as the printer's technical data; the document can be downloaded from the **EBS** Website following the link **manual.ebs-inkjet.de** or by scanning the QR code given on the first page,
- **Basic User Manual***: it contains a basic description of the printer, the information on how to switch the printer on and off, start / pause printing, open a project for printing, perform basic maintenance and replace a consumables; the document can be downloaded from the **EBS** Website following the link **manual.ebs-inkjet.de** or by scanning the QR code given on the first page,
- **Safety and Important Information**: it contains any information that is necessary for safe installation, operation, transport and storage of the printer; the document is available in a printed paper copy supplied with the printer and also on the Website at **manual.ebs-inkjet.de**.



** 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 **bigJET®** EBS-1800 printer is an industrial, ink-jet **DOD** (Drop-on-Demand) printer for touchless labeling of:

- objects moving (traveling, rotating) in front of the immovable printhead,
- immovable objects by means of a moving printhead (*e.g.* with a separate manipulator or robot).

Any other application of the printer is forbidden. The user shall be responsible for any consequences of an undesigned application.

The printer is not intended to store or process personal data.

The printer is a device intended exclusively for professional use in an industrial setting.

RESPONSIBILITY

EBS Ink Jet Systeme GmbH shall not be liable for damage or personal injury that might occur during installation, operation or servicing of the **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 printer modifications 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 the **EBS Ink Jet Systeme GmbH** printers are used.

The **EBS Ink Jet Systeme GmbH** consumables, spare parts, accessories and cabling, hereinafter referred to as components, are designed for operation with the **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 printer damage, and it will void any warranty claims.

Every user who modifies or repairs the **EBS Ink Jet Systeme GmbH** printers using components different than those supplied by **EBS Ink Jet Systeme GmbH** or whose specifications vary from **EBS Ink Jet Systeme GmbH** specifications, 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.

This printer comes with CE marking, FCC, ISED certificates.

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 full text of the EU Declaration of Conformity is available at the client's request from **EBS Ink Jet Systeme GmbH**'s authorized representatives.

SAFETY RULES

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

The device is not intended for use in explosive atmospheres. The device is not protected against explosion hazards originating from external sources.

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:
- shutting the printer down,
- opening projects for printing,
- enabling / pausing printing.

An instructed person can perform operations such as:
- starting the printer up,
- replacing the consumables,
- emptying of sump trays,

maintenance operations such as:
- cleaning the nozzle plates,
- tuning printing units,

and also:
- basic installation operations in compliance with **The User Manual**,
- moving the printer into another place.

Any service operations, including:
- Advance installation and removal of the printer,
- The operations that require that any protective covers of the printer be opened or removed

can be performed exclusively by **skilled persons**.

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.
- **Never** direct the printhead outlet towards persons or animals. Do not do that even if the printer is shut down.
- While performing any operations in the ink systems and the printheads wear safety goggles, gloves that are resistant to wash-up / ink and protective clothing.



- While installing / replacing consumables or emptying of sump trays be careful not to get splashed and not to make the printer or its surroundings dirty.
- **CAUTION: Sharp elements!** While removing transport protection and also while installing / replacing consumables be careful not to get wounded with the needle that is part of the consumable connection. **Do not touch the needle!** Avoid manipulations near the needle.



- **CAUTION: Risk of printhead heating** After prolonged printing (> 10 min) at a high speed close to the maximum and / or with high intensity and / or with a high dot fill factor of the project (number of printed dots / total possible number of dots in the printed project), the aluminum housing of the printhead may feel hot when the printhead is grasped. If you experience pain, wait until the printhead has cooled down or hold it only by the parts of the housing made of plastic.



- 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 supply voltage, remove the power plug from the mains outlet.



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

HEALTH / HYGIENE / ENVIRONMENT

IN CASE OF ACCIDENT

When ink / wash-up 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:
- **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 him / her the product **SDS**.

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

HAZARDS IN THE WORKPLACE

Pregnant women must not expose themselves to certain consumables (*e.g.* XI51102, XI51008, XI51001) whose **SDS**s include the **H360D** hazard statement.

Certain consumables require that contact lenses should not be worn.

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







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 **bigJET®** EBS-1800 printer contains a high-frequency transmitter and receiver. When it is in the ON state, the printer receives and transmits high-frequency (HF) signals.

During operation, the printer control system monitors the emissions of the energy radiated by the printer so that no required limits are exceed.

The **bigJET®** EBS-1800 printer complies with all the requirements of the regulations concerning the impact of the HF energy on humans in your country.

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

EBS Ink Monitoring System (**EBS-IMS**) (RFID@13.56MHz, ISO/IEC 14443 B):
- Its carrier frequency is **13.56 MHz**.
- The maximum intensity of the transmitter's magnetic field at **10 m** from the printer is: **-29,3 dBµA/m**.

EXPLOSION PROTECTION REQUIREMENTS

Technical Protective Measures

A sump tray with a minimum capacity of **5 liters** must be placed under each ink canister to collect potential leakages.

The printer must be connected to a mains outlet with a grounding connection using the grounded power cord supplied in the set. Efficiency of grounding shall meet the applicable standards.

An equipotential bonding connection must be made between each ink system set and the canister.

An equipotential bonding connection must be made between each ink canister and the sump tray.

Organizational Protective Measures

Assembly, installation and adjustment work must be carried out:

- without the use of flammable consumables if no ventilation is operating,
- with the use of flammable consumables if ventilation is operating, with particular caution.

Users must be trained and informed about the risks associated with the possible electrification of flammable consumable materials.

Every day, and also each time before starting the printer up or performing maintenance work, it is necessary to check the printer for leaks (print heads, ink systems, tubes). If any leakage is detected, the device must not be turned on.

Ensure good ventilation in the area where the printer is installed (especially near the printhead and sump trays) and where consumables are stored.

If you are using inflammable inks, keep the ink canister a minimum of **0.5 m** (**1.64 ft**) away from electrical facilities or sources of sparks or flames. When replacing ink canister or emptying of sump trays containing flammable ink, maintain a minimum distance of **1 m** (**3.28 ft**) between the ink canister and all electrical equipment around or above the canister, and a minimum distance of **3 m** (**9.84 ft**) between the ink canister and all electrical equipment below the canister.

If you are using flammable inks, keep each printhead a minimum of **2 m** (**6.56 ft**) away from electrical facilities or sources of sparks or flames.

FIRE PREVENTION

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

The **bigJET®** EBS-1800 series printer prints with flammable inks whose physical and chemical properties are available in the relevant material safety data sheets (**SDS**). A sheet contains the symbol, description, solvent base, min. boiling point, flash point and other properties of a given ink.

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 leave ink or wash-up in open containers.

Every day, and also each time before starting the printer, it is necessary to check the filling level of the sump trays located under the ink canisters and, if necessary, empty them.

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

RECYCLING

After use, consumables (the canister, ink filter, material absorbing spilled ink or solvent, or ink from sump trays) must not be disposed of with municipal waste. The above-mentioned consumables must be treated as hazardous waste and handed over to a local authorized waste collection point for safe recycling in accordance with the guidelines provided in the safety data sheet (SDS) for the consumables used and with local environmental protection regulations.

WORKING ENVIRONMENT

Operating temperature	**+5°C ÷ +45°C (+41°F ÷ +113°F)**
Humidity	**10% ÷ 90% RH with no condensation**
Maximum altitude (above sea level)	**2000 m (6561 ft)**
Pollution degree (PD)	**2**

The use of certain inks may limit the temperature and humidity ranges - see the **SDS** for a given ink.

FCC COMPLIANCE STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

ISED CANADA COMPLIANCE STATEMENT

This device contains licence-exempt transmitter(s) / receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:
(1) This device may not cause interference;
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

The **bigJET®** EBS-1800 printer has been designed and complies with the safety requirements for radio frequency (RF) exposure, in accordance with RSS-102, paragraph 2.5.1, as demonstrated in the RF exposure analysis.

HANDLING

The printer can be handled by **instructed persons**.

Total weight of the printer (with two printheads, without ink canister)	**≈ 13.5 kg (29.76 lbs)**
Weight of printer components*:	
Control unit, with power supply	**≈ 2.75 kg (6.6 lbs)**
Ink System (filled with ink)	**≈ 2.8 kg (6.17 lbs)**
Printhead (filled with ink)	**≈ 1.0 kg (2.2 lbs)**
Complete stand (main stand, basket for ink canister, 2 heads stands, 2 heads holders)	**≈ 3.8 kg (8.38 lbs)**
5-liter methyl ethyl ketone-based ink canister	**≈ 5.0 kg (11.0 lbs)**

* Without option, cabling and tubes.

Ink systems, ink canisters, or the printer as a whole may only be transported in a vertical position (operating position). The other system components (the control unit, the printheads, the beams) can be transported in any position. During transport, care must be taken not to damage the nozzle plates, control unit display, cables, or tubes.

INSTALLATION

The basic installation and relocation of the printer can only be done by an **instructed person** who shall follow the recommendations given in **The User Manual**.

Advanced installation (to use special types of ink, integrate the printer with a production line, work with external devices, etc.) can only be done by a **skilled person**, who will bear the full responsibility for the job.

The **bigJET®** EBS-1800 printer must be installed and operated exclusively in an industrial environment where physical and logical measures ensure that access is limited only to authorized personnel and devices.

The printer should be installed by authorized personnel in a controlled area, *e.g.*, on a conveyor belt located within a restricted access zone. The customer is responsible for securing the installation site; however, access to the area where the printer is located must always be properly protected.

By default, the **bigJET®** EBS-1800 printer operates offline, without a connection to a local network.

In rare cases where network connectivity is required, the printer must only be connected to a managed local network that includes safeguards against unauthorized access and Denial of Service (DoS) attacks, *e.g.*, by using firewall appliances.

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 ventilated location, away from any source of heat, flames or sparks.

The difference of levels between the lower edge of an ink system and the lower edges of every printhead that is fed with the ink out of that system, must not be greater than **±1.5 m (±4.92 ft)**.

The printheads and photodetectors must be placed in a location convenient for the objects being labeled; the printheads should be positioned in areas free from shocks and vibrations.

Objects to be labeled must move in front of the face of each printhead from the direction where the slide is.

Ink systems and ink canisters can only be installed in a vertical position. The other system components (the control unit, the printheads, the beams) can be installed in any position.

The **5 l (1.32 gal)** ink canister can be installed in the basket mounted on the printer stand or on a horizontal, stable surface, *e.g.*, on the floor, so that it is not exposed to tipping over by other machines or by people.

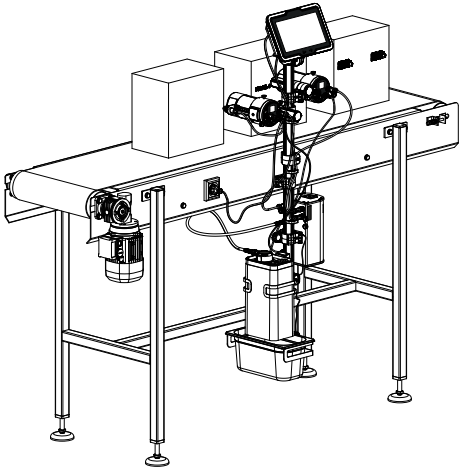
The lighting in the area where the printer is installed should conform to local regulations.

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 AND TUBES

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

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

The ink tubes and the ink canister connection hose must not be kinked or compressed.

The following can be connected to the printheads:
- Cables with lengths from **1** to **10 m** (**3.28** to **32,8 ft**). Cables longer than **3.05 m** (**10 ft**) are CMX-type cables. See also **"Requirements for the USA:" on page 12**.
- Ink tubes with lengths of **1.5**, **3.5**, **5.5** or **10.5 m** (**4.92**, **11.48**, **18.04** or **34.45** ft).

The insulation of head cables is resistant to the impact of mineral oils (under CSA 22.2, 4Tage/100°C), fat or grease, UV radiation and also to abrasion.

The minimum bend radius is:

for cables of up to **3.05 m** (**10 ft**) in length:
- **51 mm** (**2 in**) - static operation
- **95 mm** (**3.74 in**) - dynamic operation

for (CMX-type) cables longer than **3.05 m** (**10 ft**):
- **32 mm** (**1.26 in**) - static operation
- **59 mm** (**2.32 in**) - dynamic operation

for ink canister connection hose:
- **30 mm** (**1.18 in**)

for tubes supplying ink to the printheads:
- **40 mm** (**1.57 in**) - static and dynamic operation.

POWER SUPPLY

The printer is not equipped with a disconnecting mechanism (a circuit breaker), so the outlet to which it is connected should be easily accessible.

The printer shall be energized from a source whose nominal voltage falls into the range given on the printer nameplate. If in doubt, contact the **EBS Ink Jet Systeme GmbH** service department.

Supply voltage	**100 ÷ 240 V AC, 50/60 Hz**
Maximum power consumption	**225 W**
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.

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 type of plug that is part of a detachable power cord must be selected according to the type of sockets used in a given country.

Any use of extension cords is inadvisable. The use of extension cables that are not equipped with a protective wire is forbidden.

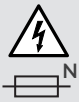
The electrical installations upstream of the printer must comply with applicable regulations.

IT POWER DISTRIBUTION SYSTEMS

This printer has been designed for connection to an IT power distribution system.

STATEMENT FOR SERVICE PERSONNEL

Power supply unit within the control unit.



CAUTION: Double pole, neutral fusing.

Before undertaking a service operation, remove the power plug from the electrical mains.

The power supply in the control unit has two unreplaceable fuses **F1**, **F2** on inner PWB.



The fuses must not be replaced and / or repaired by the user or service personnel. The control unit is a throw-away unit, when damaged. To repair, the control unit has to be returned to the manufacturing facility.

INTERFACES

Ethernet

Cables used for connecting the printer to a local, managed **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 run outside the building. It must be connected to the network infrastructure inside the building.

RS-232

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

Cables longer than **30 m** (**98.42 ft**) must not be used when connecting external components to the **I/O BOX** module.

LOCAL INSTALLATION REQUIREMENTS

Requirements for the USA:

The specific guidelines about how to run CMX cables whose lengths exceed **3.05 m** (**10 ft**) are given in sections 725.135 to 725.144 of NFPA 70 National Electrical Code® (NEC) 2017 Edition.

This Code covers the installation and removal of electrical conductors, equipment, and raceways; signaling and communications conductors, equipment, and raceways; and optical fiber cables and raceways.

Before installing the printer for use with cables of more than **3.05 m** (**10 ft**) in length, read the above-mentioned guidelines.

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	**0°C ÷ +50°C (+32°F ÷ +122°F)**
Consumables storage temperature	**0°C ÷ +50°C (+32°F ÷ +122°F)** optimal: **+10°C ÷ +25°C (+50°F ÷ +77°F)**
Humidity	**10% ÷ 90% RH with no condensation**

Ink systems, ink canisters, or the printer as a whole can only be stored in a vertical position (operating position). The other system components (the control unit, the printheads, the beams) can be stored in any position.

The use of certain inks may limit the temperature range of printer storage - see the **SDS** for a given ink.

While storing consumables, the following should be avoided:
- direct exposure to sunlight,
- sources of heat, radiation and electrostatic charges.

When filled with ink, the printer can be stored for **3 weeks**. If the printer is to be stored for a longer time, empty it of the ink and fill it with wash-up. For detailed information about preparing the printer for storing see The **User Manual**.

With certain inks, the printer can be stored for a different period - see the **SDS** for a given ink.

Only **skilled persons** can prepare the printer for storing over a period **longer than 3 weeks**.

MAINTENANCE / FAULT FIXING



Maintenance operations should be performed by **instructed persons**, who wear suitable personal protection equipment (safety goggles, gloves that are resistant to wash-up / ink and protective clothing, 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 or replacing the printhead.

If the nozzle plate needs cleaning, use appropriate wash-up supplied by **EBS Ink Jet Systeme GmbH**. No tools must be used for cleaning the nozzle plate. The nozzle plate should be dried gently with lint-free cloth. Contact with the nozzle plate should be limited to a minimum to avoid damage. Damage to the nozzle plate can reduce printhead efficiency.

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

DECOMMISSIONING



After the end of its service life, the **bigJET®** EBS-1800 *printer must not be disposed of with municipal waste. The used printer must be treated as hazardous waste and handed over to a local authorized waste collection point for safe recycling in accordance with the guidelines provided in the safety data sheet (**SDS**) for the consumables used and with local environmental protection regulations.*

When the printer is to be taken out of use, follow the resetting procedure to delete user files and settings.

For detailed information on the resetting procedure consult the **User Manual**.

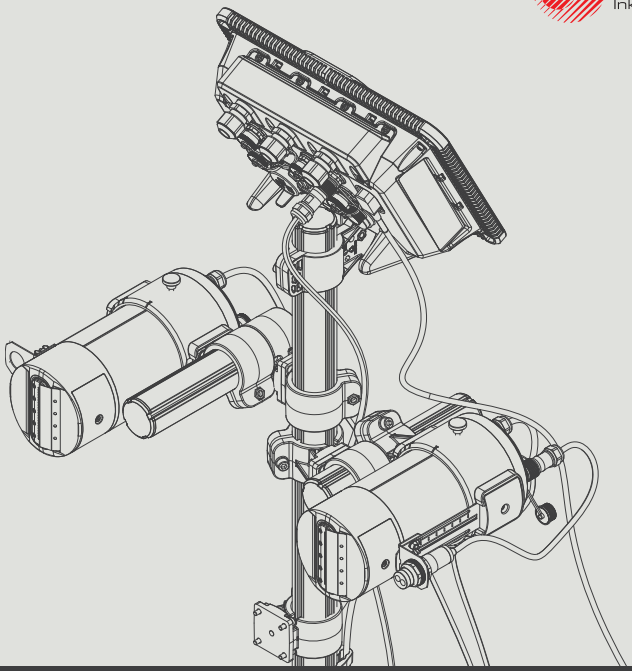
Notes

Version Control

Version of manual	Date of issue
G2025/08/21_1EN	2026.08.17
G2025/08/21_1EN	**2026.10.08**

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EN



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