

Handjet® EBS-260A SAFETY AND IMPORTANT INFORMATION

**DROP-ON-DEMAND Handheld, Portable, Cordless
Printers**

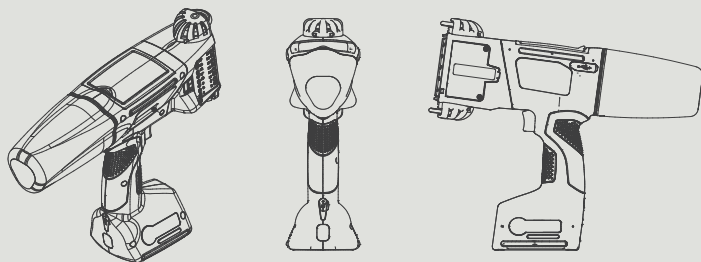


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EN

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 **Handjet® EBS-260 series** printer, please read carefully the documentation that accompanies the printer as well as the data sheets for the consumables (MSDS) 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 Polish and English languages 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 is available in **PDF** format on a **USB** flash drive attached to the printer and also on the Web,

- **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, prepare a project for printing, perform basic maintenance and replace an ink bottle; the document is available in **PDF** format on a **USB** flash drive attached to the printer and also on the Web,
- **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 in **PDF** format on a **USB** flash drive attached to the printer and also on the Web.

* - 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 **Handjet® EBS-260-series** printers are industrial **DOD** (Drop-on-Demand) ink-jet printers designed for marking objects manually, without touching them. **Any other application of the printer is forbidden.** The user shall be responsible for any consequences of an undesigned application.

RESPONSIBILITY

EBS Ink Jet Systeme GmbH shall not be liable for damage or personal injury that might occur during 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.

EC DECLARATION OF CONFORMITY

The full text of the EC 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.

An ordinary person can only perform basic operations such as:

- Selecting project for printing,
- Starting/pausing printing,
- Replacing consumables.

Any maintenance operations, including:

- Cleaning the nozzle plate,
- Rinsing the nozzles,
- Tuning printing unit

can be performed by **instructed persons**.

Any service operations, including 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 unit outlet towards persons or animals. Do not do that even if the printer is shut down.
- While performing any operations in the printhead unit wear protective clothing, goggles and gloves that are resistant to wash-up/ink.
- While installing/replacing consumables be careful not to get splashed and not to make the printer or its surroundings dirty.
- **WARNING: 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.

- 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 while the printer batteries are being charged, 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 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.

If eyes or skin get irritated:

- **EYES** rinse with running water until the product is removed; contact an ophthalmologist
- **SKIN** wash with water and pH-neutral soap.

When swallowed, do not induce vomiting, contact a physician.

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. XI40102, XI40008, XI40001).

Certain consumables require that contact lenses should not be worn.



While cleaning with 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.

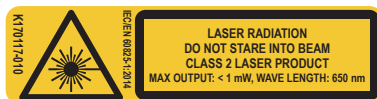
Maximum noise level emitted by the printer
< 70 dBA.

LASER RADIATION SAFETY

Laser pointer is activated during printing for print positioning. The pointer emits class 2 laser radiation (according to IEC 60825-1) at the wavelength of **650 nm**, with a maximum output power < **1 mW**. The laser beam is not generated in pulses.

- Do not direct the laser beam of a radiation emitting laser device toward persons or animals, or stare at the beam. The laser light can damage sight.
- Do not stare at the beam or look directly through optical instruments (magnifying glasses, magnifiers, microscopes, binoculars, telescopes). The looking through certain optical instruments (e.g. loupes, magnifying glasses and microscopes) at an output laser beam from a distance of up to **100 mm** may generate hazard to the eyes.
- Avoid directing the beam toward the planes that reflect laser radiation well (mirrors or other glossy surfaces) so that the reflected beam(s) does not shine in the eyes.

The **Handjet® EBS-260A** printer is marked with the following warning label in English, as standard. The label is put on the left-hand side of the printer on plug covering the hole through which electro-magnets can be adjusted.



Labels in several languages come together with the printer. If you prefer a different language than English, replace the label with a more suitable one. If the label is not available in your language, translate the label contents into your language and hand it over to the printer users.

CONTROL OF ELECTROMAGNETIC INTERFERENCE

The **Handjet®** EBS-260 series printer contains a high-frequency transmitter and receiver. When it is in the ON state, the printer receives and transmits high-frequency (HF) signals.

The controller of the printer system controls energy emitted during printer operation on an on-going basis.

The **Handjet®** EBS-260 series printer complies with all the requirements of the regulations concerning the impact of the HF energy on humans in your country.

IMPACT ON MEDICAL EQUIPMENT

Pacemaker and Other Medical Implants

The **Handjet®** EBS-260 series printer contains built-in high-frequency transmitters and receivers. Persons having medical implants should not approach the printer to a distance smaller than **20 cm (8 inches)** from the implants not to disturb implant operation.

Other Medical Equipment

If you use a piece of medical equipment, please ask the equipment manufacturer whether the equipment is sufficiently shielded against electromagnetic radiation. In certain circumstances your doctor may help you gain the information you require.

FIRE PREVENTION



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

The **Handjet®** EBS-260 series printer prints with flammable inks whose physical and chemical properties are available in the relevant material safety data sheets (MSDS). 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 print in the areas where an explosion hazard exists.

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



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

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.

Provide good ventilation in the place where the printer is used and in the places where consumables are stored.

PROTECTING THE BATTERY PACK

The printer contains a non-replaceable lithium-ion battery pack. Such a battery pack can potentially explode and emit hazardous chemical products. If the battery pack is damaged, the printer housing can be opened by a **skilled person** only. To reduce the risk of fire or burns, the battery pack must not be crushed, punctured or thrown to a fire or to water.

The following principles need to be obeyed to protect the batteries:

- Protect the printer against excessive temperature and fire. Do not expose it to strong solar radiation for a longer time.
- Avoid a sudden change in temperature (cold → hot) that might cause vapor condensation

inside the printer and thereby speed up battery discharge and electronic circuit corrosion. Condition the printer for about **1 hour** before use after it has been moved from a cool place to a warm one.

OPERATION IN EXPLOSION HAZARD AREAS

If you work in an explosion hazard area, switch your Ink-Jet printer off and follow all instructions and precautions. Sparking generated by batteries may cause an explosion and/or fire in this hazardous area and result in personal injuries or even death.

The regions where a potential explosion hazard exists are usually marked appropriately. The examples of such regions are: solvent storage areas, fuel storage areas and petrol stations, below-decks onboard ships, storage areas for explosive gases, air mixtures, chemicals and metal or flour powders.

OPERATION IN AREAS OF BLASTING

In order to avoid disturbance during blasting operations, the printer should be switched off in the areas where such operations are performed or where the use of radio equipment is forbidden.

Follow the operating instructions and information signs.

WASTE DISPOSAL



Disposal of waste electrical and electronic equipment (regulations in force in the countries of the European Union and other European countries where a selective waste collection system is used).



Disposal of waste batteries and rechargeable batteries (regulations in force in the countries of the European Union and other European countries where a selective waste collection system is used).

The above-given symbols mean that the waste electrical and electronic equipment or the batteries must not be considered as regular household waste.

The waste consumables must be managed in compliance with the local waste management and hazardous materials transportation regulations.

WORKING ENVIRONMENT

Operating temperature	+5°C to +40°C (+41°F to +104°F)
Humidity	10 to 95% RH with no condensation
Maximum altitude (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).

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

The working frequency of the **IMS** (Ink Monitoring System) is **13.56 MHz**.
The magnetic field strength at 10m distance from the **IMS** is **max. -41,7 dBµA/m**.

Working frequency of **WiFi** module (802.11 b/g/n): **2400 - 2483.5 MHz**.

Maximum transmitter power:

- declared by the **WiFi** module manufacturer: **13dBm@11n, 17dBm@11b, 15dBm@11g**,
- measured together with printer (+/- 4dBm eirp): **5.3dBm@11n, 9.9dBm@11b, 7.8dBm@11g**.

Working frequency of **Bluetooth** module: **2400 - 2483.5 Mhz**.

Maximum transmitter power:

- declared by the **Bluetooth** module manufacturer: **+6 dBm eirp**,
- measured together with printer (+/- 4dBm eirp): **-1.3 dBm eirp**.

HANDLING

Overall printer weight	≈ 1.58 kg (3.483 lbs)
Transport casing with print- er and accessories	≈ 3.7 kg (8.157 lbs)

The printer may be transported in any position. Be careful not to damage the nozzle plate or the touch screen during transport.

CONDITIONS OF USE


WORKPLACE

The lighting of the workplace must comply with local regulations.


POWER SUPPLY

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

The power supply module should be connected to the electricity supply whose nominal voltage falls into the range indicated on the nameplate. If in doubt, contact the EBS Ink Jet Systeme GmbH service department.

Supply voltage when charging	IN: 100 to 240 VAC, 50/60 Hz OUT: 24V  / 1.25A
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Electric shock protection class II



While the batteries are being charged, the printer must not print. While the software is being updated, the printer must be connected to the power supply module.

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's power supply module comes with a power cord with grounding. 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 wiring systems upstream of the printer's power supply module must meet the applicable standards.



The power supply module must not be repaired by the user or the service staff. When damaged, the power supply module must be replaced.

LOCAL USE REQUIREMENTS

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.

Consumables storage temperature	0 to +50°C (+32 to +122°F) optimal: +10 to +25°C (+50 to +77°F)
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Humidity	10 to 95% RH with no condensation
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The use of certain inks may limit the temperature range (see the data sheet for a given ink).

While storing consumables, the following should be avoided:

- direct exposure to sunlight,
- sources of heat, radiation and electrostatic charges.

The printer may be stored in any position.

When filled with ink, the printer can be stored for **3 weeks (2 weeks if pigment ink is used)**. If the printer is to be stored for a longer time, empty it of the ink and fill it with wash-up.

With certain inks, the printer can be stored for a different period (see the data sheet for a given ink).

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**.

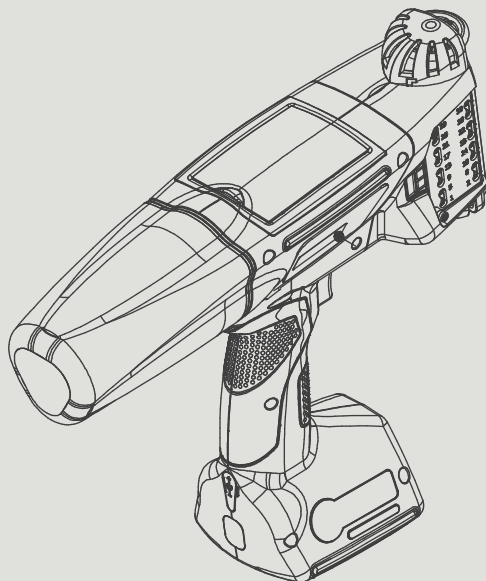


Any **service** operations that require that protective covers of the printer be opened or removed should be performed exclusively by **skilled persons**.

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.



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 unit efficiency.

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