

## **Handjet**<sup>®</sup>

# EBS-260A BASIC USER MANUAL

DROP-ON-DEMAND Handheld, Portable, Cordless Printers Original Instructions





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You can find our user manuals at: manual.ebs-inkjet.de BEFORE USING THE **Handjet**<sup>®</sup> EBS-260A printer, please read carefully the documents that come together with the printer, especially the Safety Manual and the material safety data sheets (MSDSs) for consumables in use.



The document, entitled **Safety and Important Information** (signature G2023/08/13\_2EN) is an integral part of this User's Manual. The above-mentioned documents constitute a set of user documentation.

This User Manual should be easily accessible and ready to use whenever the need to do so arises.

This version of the document includes most of the modifications implemented to the **EBS Ink Jet Systeme GmbH** printers up to software version **1.04.06**, and the descriptions contained herein concern the printers on which this software version is installed.

The scope of delivery depends on the order, therefore it may happen that the actual equipment and functions of your printing system differ slightly from some descriptions or illustrations. As we need to keep pace with continual technical advancement and our customers' individual requirements we have to reserve the right to introduce changes in the design, version and technical solutions. Therefore, no data, illustrations and descriptions contained in this User Manual shall make grounds for any claims. Should your printer be provided with the parts of the equipment or software that are not illustrated or described in this User Manual or should you have additional queries after having read this Manual, please contact **EBS Ink Jet Systeme GmbH**'s authorized representative for more information.

The manufacturer shall not be liable for any damage caused to the printer by improper handling or operation, that is the failure to follow this User Manual, and by the consequences of editorial or publishing errors in the Manual.

The application and use of products are beyond our control and thus you apply and use the products exclusively on your own responsibility.

#### ORIGINAL VERSION.

The User Manual in the English language is the original instruction. In case of disputes, this language version shall prevail. The instructions in other languages are translation of the original instructions.

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## **GENERAL INFORMATION/LEGAL INFORMATION**

THE FOLLOWING SYMBOLS ARE USED IN THE MANUAL:



 $\ensuremath{\mathsf{P}}\xspace{\mathsf{Lease}}$  read the documentation that came with your printer before using it.



An important note, tip, piece of information on safety. It is advisable to strictly follow the tips.



 $C \mbox{\sc are}$  must be taken to avoid exposure to the laser beam.



 $C \mbox{are should be taken to avoid injury from sharp objects.}$ 



SAFETY GLASSES SHOULD BE WORN.



PROTECTIVE GLOVES SHOULD BE WORN.



PROTECTIVE CLOTHING SHOULD BE WORN.

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Additional information on a given subject. A supplement or a reference to the text where more details can be found.

This User Manual applies to the **Handjet**<sup>®</sup> EBS-260A printer.

REGARDLESS OF THE LANGUAGE VERSION OF THE MANUAL, EXAMPLES OF PRINTER SCREEN DUMPS ARE PRESENTED IN ENGLISH.

ACTION SYMBOLS, USED FURTHER IN THIS DOCUMENT		
(hr)	Press the button / ICON / AREA.	
00:00:05	WAIT THE GIVEN TIME.	
1s	Press and hold the button for given time.	
1	Step.	
1	OPTIONAL STEP.	

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- **17** FUNCTION BUTTON.
- **18** "-" BUTTON.
- **19** "+" BUTTON.
- **20** INK CONTAINER.
- **21** CHARGING CONNECTOR, SECURED WITH CAP.
- **22** GUARANTEE SEAL.
- **23** Power pack, to charge printer batteries.
- **24** POWER PACK JACK PLUG.
- **25** DISCONNECTABLE POWER CORD WITH PLUG<sup>\*</sup>.
- 26 LCD SCREEN.
- **27** NAMEPLATE.

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\* Depending on a given country, power plug may differ from that shown in Fig. 1.

- **1** UPPER GUIDE ROLL.
- 2 NOZZLE PLATE FRONT PART OF THE PRINTER.
- **3** LOWER GUIDE ROLL, TO SYN-CHRONIZE PRINTING.
- LASER POINTER THAT SHOWS THEPOSITION OF THE LOWEST NOZZLE DURING PRINTING.
- COVER PLATE, TO PROTECT
- **5** PRINTING UNIT ADJUSTMENT SCREWS.
- **6** TRIGGER.
- 7 PRINTER BASE WITH BATTERIES PACK.
- 8 USB CONNECTOR; SECURED WITH BLANKING PLATE.
- **9** Keypad.
- 10 LCD CONTROL PANEL -3.5" / 88.9 MM LCD DISPLAY.
- **11** PRINTER ON / OFF BUTTON.
- **12** PRINTER STATE LED.
- **13** BATTERIES STATE LED.
- **14** RADIO COMMUNICATION LED.
- **15** PRINTING STATUS LED.
- **16** PRINTING START/PAUSE BUTTON.

## INTERFACE OVERVIEW

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BUTTON	FUNCTION		
	START / SHUT DOWN THE PRINTER.		
	START / PAUSE PRINTING.	RT / PAUSE PRINTING.	
R	<ul> <li>Switch between the project window B (see Fig. 2 on page 6) and basic printing parameter windows C on the main screen. The active window is framed in black.</li> <li>Lock the LCD screen (by holding the button for a long time).</li> </ul>		
	<ul> <li>Select the previous project to be printed, within a single folder in the project window B (see Fig. 2 on page 6).</li> <li>Decrease the values of the basic printing papameters C by 1 on the main screen.</li> </ul>		
	<ul> <li>SELECT THE NEXT PROJECT TO BE PRINTED, WITHIN A SINGLE FOLDER IN THE PROJECT WINDOW B (SEE FIG. 2 ON PAGE 6).</li> <li>INCREASE THE VALUES OF THE BASIC PRINTING PARAMETERS C BY 1 ON THE MAIN SCREEN.</li> </ul>		
LED	FUNCTION	LED STATE	Meaning
			OFF. PRINTER OFF.
<u>ں</u> ©	PRINTER STATUS.		Solid green. Printer on.
		$\bigcirc$	OFF. BATTERIES CHARGED (DURING OPERATION).
0	CHARGING / LEVEL OF CHARGE.		Solid yellow. Batteries fully charged (while charging).
			BLINKING YELLOW. BATTERIES CHARGING.
			OFF. WIFI NOT CONNECTED.
<u></u>	WIFI COMMUNICA- TIONS STATUS.		Solid orange. WIFI connected.
			BLINKING ORANGE. ESTABLISHING WIFI CONNECTION.
	BLUETOOTH <sup>®</sup> COMMU- NICATIONS STATUS.		OFF. <b>BLUETOOTH</b> <sup>®</sup> NOT CONNECTED.
◎ *			Solid blue. Active connection of $Bluetooth^{\ensuremath{\mathbb{B}}}$ with external device.
			BLINKING BLUE. ESTABLISHING BLUETOOTH <sup>®</sup> CONNECTION.
	<b>C</b>	$\bigcirc$	OFF. PRINTING PAUSED.
♦ ()	START / PAUSE PRINT- ING.		Solid red. Printing enabled.

## INTERFACE OVERVIEW

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SCREEN	DATA/TIME/COUNTER			
MAIN	4 			
	Project Tools	<b>Start Fig. 2.</b>		
		Printing status (printing is OFF; printing is ON (waiting for trigger); printing is ON (printout)).		
		Informative messages. Warning messages. Error messages.		
	$\widehat{\boldsymbol{\varsigma}} \widehat{\boldsymbol{\varsigma}} \boldsymbol{$	WIFI STATUS. THE WIFI INTERFACE CONFIGURATION.		
	***	BLUETOOTH <sup>®</sup> STATUS. THE BLUETOOTH <sup>®</sup> INTERFACE CONFIGURATION.		
А	Ŷ	STATUS OF CONNECTION OF MEMORY DEVICE TO USB PORT IN THE PRINTER.		
		Estimated ink container level indicator.		
	<mark> </mark>	BATTERIES CHARGE INDICATOR.		
	00:00	CURRENT TIME. SET THE CURRENT DATE AND TIME.		
	Ф	Shut down the printer. Restart the printer. Log the user out. Lock the screen.		
		OPEN A PROJECT TO BE PRINTED.		
	<b>\</b>	Edit the project and edit parameters of the project that is open to be printed.		
-	Example.prj	NAME OF THE PROJECT THAT IS OPEN TO BE PRINTED.		
В		Select the previous / Next project to print within a folder.		
	(2/3)	PROJECT NUMBER WITHIN THE FOLDER / PROJECT COUNT WITHIN THE FOLDER.		
		PREVIEW OF THE PROJECT THAT IS OPEN TO BE PRINTED.		
		SAVE MODIFIED PARAMETERS OF THE PROJECT.		
		SLIDER TO CONTROL THE <b>DOT SIZE</b> PARAMETER.		
С		SLIDER TO CONTROL THE <b>RESOLUTION</b> PRINT PARAMETER.		
	- +	DECREASE / INCREASE THE VALUE OF PARAMETER.		
	ि	CREATE A NEW PROJECT. EDIT AN EXISTING PROJECT. CONTINUE EDITING.		
D	*	PRINTER SETTINGS.		
		START / PAUSE PRINTING. START PURGING NOZZLES. MEASURE.		

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## **CHARGING PRINTER BATTERIES**



The **Handjet**<sup>®</sup> EBS-260A printer is not equipped with a disconnecting mechanism (a power switch), therefore the power outlet to which it is connected to charge the batteries should be easily accessible. Charge the batteries using only the power pack that comes together with the printer.

The printer is not designed for use while the batteries are being charged.

The batteries should be charged at an ambient temperature below +40 °C (+104 °F) to avoid undesirable effects due to battery overheating.





#### NOTE: THE RISK OF DAMAGING THE PRINTER!

The printer can be shut down in emergency shutdown mode only if a printer failure occurs, when shutting down in regular mode, which lasts longer, could cause further damage, e.g. ink spilling. Shutting down the printer in emergency mode too often may lead to printer damage (e.g. a file system may get damaged).



## **OPENING A PROJECT TO PRINT**

## OPEN ANY PROJECT FROM THE LIBRARY 12, 22, 32. **O**PENING A PROJECT FROM THE CURRENT FOLDER **1b**. THE PROJECT CALLED **EXAMPLE** IS OPEN FOR PRINTING. 1a OPEN ANY PROJECT FROM THE LIBRARY. OPEN PREVIOUS < ((-) / NEXT > (+) PROJECT FOR PRINT-1b ING WITHIN ONE FOLDER. 2a SELECT A PROJECT. 3a ACKNOWLEDGE PROJECT SELECTION. THE PROJECT CALLED **EBS** IS OPEN FOR PRINTING.





THE PROJECT NAMED EXAMPLE IS BEING PRINTED.





## **Replacing the Ink Container**



#### **CAUTION: SHARP ELEMENTS!**

While replacing the container be careful not to get wounded with the needle, which is part of the connection. **Do not touch the needle!** Avoid manipulations near the needle.



If parts of printouts are missing, and the carrying out of the venting procedure (see **"Purging/Venting the Printhead" on page 17**) does not improve print quality and the ink level indicator on the main screen takes the form of  $\bigcirc$  or  $\bigcirc$ , the ink container needs to be replaced with a new one.



#### **NOTE: THE RISK OF DAMAGING THE NOZZLE PLATE!**

No tools must be used while the nozzle plate is being cleaned as otherwise the plate may get damaged. **NOTE: The risk of damaging the printer!** Washing the printer face in any other way than that presented below can cause unintentional penetration of

the cleaner into bearing-mounted moving parts or internal electronic components of the printer. This can lead to seizure or even permanent blockage of the guide rolls, damage to the travel sensor (encoder) and other electronic components of the printer.

The nozzle plate can be cleaned by **instructed persons**.



IF THE PRINTER IS PRINTING, PAUSE THE PRINTING (SEE **"PAUSING PRINTING" ON PAGE 13**).

Tilt the printer to the side and direct the printer face slightly downward. Such a position enables the dirty cleaner to flow out.

- **3** PUT A METAL VESSEL FOR WASTE OR ABSORBENT MATE-RIAL UNDER THE NOZZLE PLATE.
- 4 SPRAY A CLEANER SUPPLIED BY EBS INK JET SYSTEME GMBH OVER THE NOZZLE PLATE.
- 5 Use lint-free cloth to wipe the nozzle plate.
  - **START** RESTART PRINTING (SEE **"ENABLING PRINTING"** ON PAGE **12**).



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## PURGING/VENTING THE PRINTHEAD



#### **CAUTION:** The risk of getting splashed with ink!

While the purging / venting procedure is being followed, the ink flows out of nozzles at pressure. Be careful NOT TO GET SPLASHED AND NOT TO SOIL THE PRINTER ENVIRONMENT.



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The printhead purging / venting can be done by instructed persons.







PUT A METAL VESSEL FOR WASTE OR ABSORBENT MATERIAL UNDER THE NOZZLE PLATE.

Press and hold the Start Button for 2 seconds to dis-PLAY DROP-DOWN MENU.

PRESS THE PURGE BUTTON TO START PURGING PROCEDURE.



Press THE **STOP** BUTTON TO FINISH PURGING PROCEDURE. **R**ESTART PRINTING 

(SEE "ENABLING PRINTING" ON PAGE 12).



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## STORING FOR UP TO 3 WEEKS (2 WEEKS IF PIGMENT INK IS USED)

	PREPARING FOR STORAGE	PREPARING FOR WORK AFTER STORAGE
	Shut the printer down in regular mode (see <b>"Shutting the Printer down" on page 10</b> ).	Start the printer up (see <b>"Starting the Printer up" on page 8</b> ).
2	Do not detach the container.	MAKE TEST PRINTS.

## STORING FOR A PERIOD OF OVER 3 WEEKS (2 WEEKS IF PIGMENT INK IS USED)



### CAUTION: SHARP ELEMENTS!

While replacing a container be careful not to get wounded with the needle that is part of the connection. **Do not touch the needle!** Avoid manipulations near the needle.



#### NOTE: The risk of damaging the container!

IF A CONTAINER IS REINSTALLED IN THE PRINTER SEVERAL TIMES, IT CAN START LEAKING IN THE PRINTER AS THE RUBBER GASKET OF THE CONTAINER VALVE IS SUBJECT TO WEAR AND TEAR. AVOID REINSTALLING A GIVEN CONTAINER TOO FREQUENTLY.



Only **instructed persons** can prepare the printer for storing over a period longer than **3 weeks (2 weeks if pigment ink is used)**.

	PREPARING FOR STORAGE	PREPARING FOR WORK AFTER STORAGE	
1	Start the printer up (see <b>"Starting the Printer up" on page 8</b> ).		
2	UNSCREW THE CONTAINER WITH (SEE "REPLACING THE INK CONTAINER" ON PAGE 15)		
	INK.	CLEANER.	
3	Connect a container of		
	CLEANER.	INK.	
4	Follow the purging procedure (see <b>"Purging/Venting the Printhead" on page 17).</b> Continue purging until out of the nozzles		
	CLEANER STARTS FLOWING.	INK STARTS FLOWING.	
5	Shut the printer down in regular mode (see <b>"Shutting the Printer down" on page 10).</b>	Make test prints.	
6	Do not detach the container.		

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## VERSION CONTROL

VERSION OF MANUAL	DATE OF PUBLICATION	VERSION OF MAIN CONTROL PROGRAM
G2023/12/9_1EN	2024.12.09	1.04.06





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