



CLP2200e

COLOUR LABEL PRINTER

User's Manual

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Printing History

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Caution

- Danger of explosion if battery is incorrectly replaced
- Replace only with the equivalent type recommended by the manufacturer.
- Dispose of used batteries according to the manufacturer's instructions.
- Only use with designated power supply adapter model.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority
- to operate the equipment.

Safety Instructions

Please read the following instructions carefully

- Keep the equipment away from humidity.
- Before you connect the equipment to the power outlet, please check the voltage of the power source.
- Make sure the printer is off before plugging the power connector into the power jack.
- It is recommended that you connect the printer to a surge protector to prevent possible transient over voltage damage.
- Be careful not to get liquid on the equipment to avoid electrical shock.
- For safety and warranty reasons, ONLY qualified service personnel should open the equipment.
- Do not repair or adjust energized equipment under any circumstances.



1. Introduction

1.1. Product name and product code

Product name: DTM CLP2200e Serie

These operating instructions apply to the following printers of the CLP-Series:

- DTM CLP2200e Standard Version
- DTM CLP2200ep Peeler Version

1.2. Information about the manufacturer

Name: DTM Print GmbH
Address: Mainzer Str. 131, 65187
Wiesbaden, Germany
E-Mail: sales@dtm-print.eu
Phone: 0611 92777-0

1.3. Target group

These operating instructions are intended for the following personnel:

- Installation personnel
- Printer operators
- Maintenance personnel

1.4. Scope of delivery

Your printer will be delivered with the following content:

- DTM CLP2200e Printer
- Power supply unit
- CMYK Ink Set (dye or pigment) & Printhead
- Unwinder
- Instructions
- T10 offset screwdriver for adjusting the sensors (inside the printer)



2. Security

2.1.Intended Use

The device has been manufactured in accordance with the state of the art and recognized safety regulations. Nevertheless, the use of the device may pose a risk to the life and limb of the user or third parties or result in damage to the device and other material assets.

- The device may only be used when it is in perfect working condition and in accordance with its intended use and in compliance with the operating instructions.
- The device is intended exclusively for printing on suitable materials. Any other use or use beyond this is not in accordance with the intended use. The manufacturer/supplier is not liable for any damage resulting from improper use; the risk is borne solely by the user.
- Intended use also includes observing the operating instructions, including the maintenance recommendations/regulations given by the manufacturer.

2.2.Symbols and notes

The manual uses symbols, signal words and notes to warn of hazards and to ensure safe operation. The symbols are shown and explained below.



DANGER

This signal word indicates an imminent danger.
Failure to observe it may result in serious injury or death.



WARNING

This signal word indicates an imminent danger.
Failure to observe it may result in serious injury.



CAUTION

This signal word indicates an imminent danger.
Failure to observe it may result in minor injuries.



NOTICE

Advice to facilitate the workflow or point out important work steps.

2.3.Safety instructions

Read and follow the instructions in this operating manual to operate this printer safely. Do not carry out any independent conversion measures or repairs on the device.



3. Installation and setup of the printer

3.1. Choice of installation site

Before installing the printer, select a suitable location, review the installation instructions, and ensure that the system requirements are met.

1. The power cord of the printer must be connected to a suitable power outlet (100 V - 240 V). This socket must be easily accessible.
2. Do not place the printer near water taps, water heaters, humidifiers or refrigerators.
3. Make sure that the ambient temperature is between 15 and 30 °C.
4. Make sure that the ambient humidity is between 10 and 80% relative humidity.
5. Do not place the printer in areas subject to high temperatures and humidity, extremely low temperatures, rapid temperature changes, or direct sunlight. In particular, take care not to place the printer near open flames, outdoors, in warehouses, or in refrigerated areas.
6. Do not install the printer in dusty areas.
7. The installation room must be well ventilated.
8. The feet of the printer must be fully supported. The printer must always be placed horizontally.
9. If the printer is placed on a worktable, desk, or similar surface, that surface must provide sufficient stability and support for the weight of the printer.



Observe the following precautions when installing the printer.

When moving the printer from a cold location to a warm location, errors may occur in the printed image due to condensation. Allow the unpacked printer to rest for at least two hours before installing it.

3.2. Unpacking the printer

The printer is secured with cushioning material to protect it from vibration and shock during transport. The following describes how to unpack the printer.



Remove all transport fixing adhesive strips from the front and rear of the printer! Lift the printer using the handles provided. Lifting the printer in any other way may cause it to fall or injure persons.

- Lift the label printer out of the carton.
- Check the label printer for transport damage.
- Put the printer on a straight surface.
- Remove the foam transport locks in the printhead area.
- Check delivery for completeness.



Please keep the packing material for future transport. Returns of the printer for service or repair purposes are only possible in the original carton.

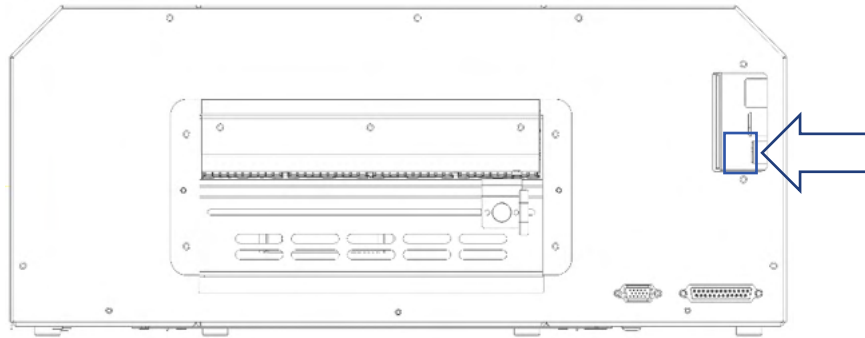
Please report any damage to DTM Print. If the package contents are not complete, contact your dealer or DTM Print directly.



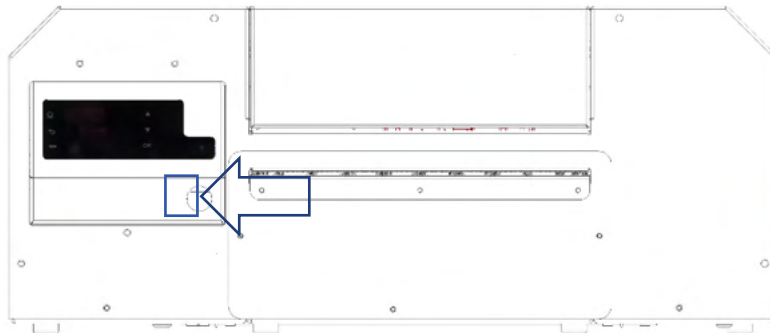
3.3.(First) Installation of the printer

3.3.1. Connect power supply

1. Connect the power supply to the printer. The connector panel is located on the back of the printer in the right area. Please insert the purple power supply plug into the lower purple socket.



2. Plug the power cord into the power outlet.
3. **Wait until the blue POWER button goes off (approx. 10 seconds) before switching on the printer.**
4. Press the POWER button for at least one second to switch on the device.

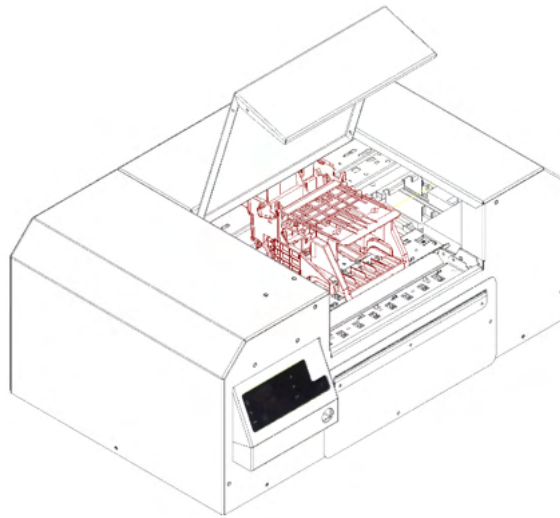


3.3.2. Loading the ink cartridges

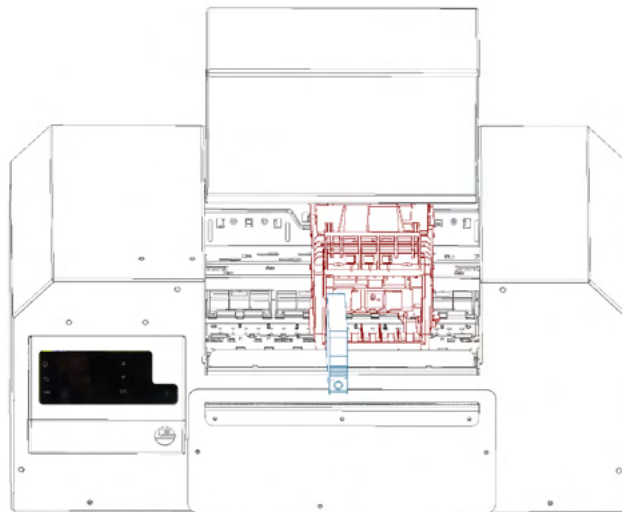


Warning. For safety reasons, keep ink cartridges out of the reach of children. In case of accidental ingestion of ink, please seek medical attention immediately.

1. Open the housing cover.



2. The printhead carriage automatically moves to the centre (service position) and stops there.
3. Remove the ink cartridges from the packaging. Remove the packaging material.
Do not touch the ink outlet ports and the connectors under any circumstances to avoid contamination of the surrounding work area, damage to the ink cartridge, and degradation of the print quality. Do not drop the ink cartridges and avoid applying increased force.
4. Slowly push the ink cartridges into the slots provided as far as they will go until you feel them "click" into place. The slots are colour-coded accordingly (CMYK). Repeat this step for each colour.



5. Close the housing cover.
6. The first filling of the empty printhead starts automatically.
Note: The initial filling with ink takes approx. 5 minutes. Please wait with the further steps until the initialisation process is finished.



3.3.3. Installing the printer driver (USB)

The following instructions describe how to install the printer via USB 2.0



IMPORTANT! Do not connect the USB cable until you have installed the driver.

1. Download the CLP2200e driver from the **download link:** [Driver Installation](https://dtm-print.eu/en/driver/clp2200e/).
(<https://dtm-print.eu/en/driver/clp2200e/>)
2. Make sure that the printer is turned on but not connected to your computer via the USB cable.
3. Install the driver.
4. During the installation of the driver, a temporary Internet connection must be available for signature verification and comparison of the root certificates.

3.3.4. Installing the printer driver (network)

The following instructions describe how to install the printer over a network connection.

1. Download the CLP2200e driver from the **download link:** [Driver Installation](https://dtm-print.eu/en/driver/clp2200e/).
(<https://dtm-print.eu/en/driver/clp2200e/>)
2. Make sure that the printer is turned on and properly connected to the network with a LAN cable.
3. Double-click the installation file. The archive window opens.
4. Depending on the setting of your operating system, you will be asked whether the driver should be installed. Click "NEXT" and continue with the installation.
5. The driver installation setup wizard will open.

ATTENTION: Another window Windows Security will open

6. Confirm the message with "INSTALL" to continue with the driver installation.
7. The necessary files are unpacked and copied to the computer. This may take a few minutes.
8. Now connect the printer to the PC. After the printer is connected to the computer, the printer should be detected and installed automatically.

3.3.5. Installation of the DTM CLP2200e Toolbox

With the DTM CLP2200e Toolbox (DTM Toolbox) you can set up the printer and control all special functions and status of the printer.

Download the DTM CLP2200e Toolbox software under the download link: [HUB-Installation](https://dtm-print.eu/en/driver/clp2200e/).
(<https://dtm-print.eu/en/driver/clp2200e/>)

Connecting the DTM CLP2200e Toolbox to the printer

When opening the DTM CLP2200e Toolbox for the first time, the network menu/connection menu opens automatically to connect a printer via USB or network. Either use the search function or enter the IP address of the printer manually. You can view this via the display on the printer.

If a printer has already been connected, the DTM Toolbox automatically connects to the last connected printer. You can also change the connected printer via the connection menu in the DTM Toolbox.

Set up the printer via DTM CLP2200e Toolbox

Set the DTM CLP2200e Toolbox to your suitable settings and then continue with the further steps. Especially the correct label type (Gap, Blackmark etc.) must be selected before inserting the label, so that the printer can recognize the label correctly!

For more information on setting the DTM CLP2200e Toolbox, see **section 5**.



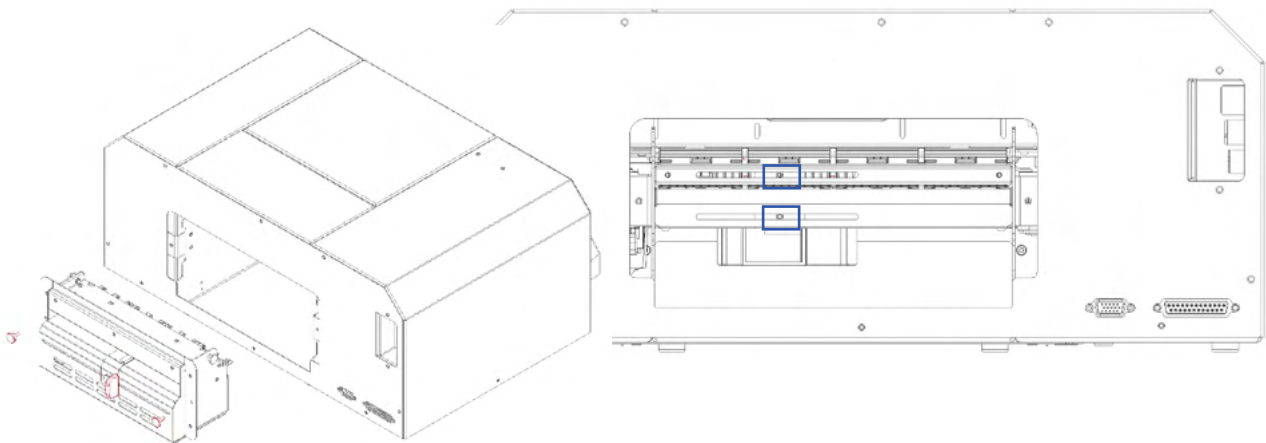
3.4. Loading and setting the labels

GAP – Label (Default)

1. Set the label type in the DTM Toolbox to “Gap”
2. The printer has two sensors (top + bottom) behind the insertion cassette for detecting the labels, which can be reached via the access from the rear and adjusted horizontally. A suitable Torx 10 offset screwdriver is included with the printer for this purpose. The sensors must always be aligned **vertically** one above the other during adjustment to be able to detect labels correctly. The sensors are set at the factory so that they work optimally for all standard gap labels (approx. 3 cm from the left edge).

A setting must be made for the following label shapes:

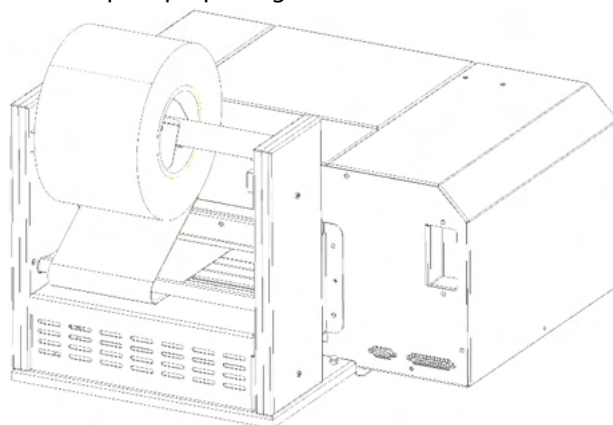
- a. For round labels, always exactly in the middle (= shortest gap).
- b. For special labels always in a place that does not have holes / indentations.
- c. For pre-printed labels, best at a point without dark pre-prints



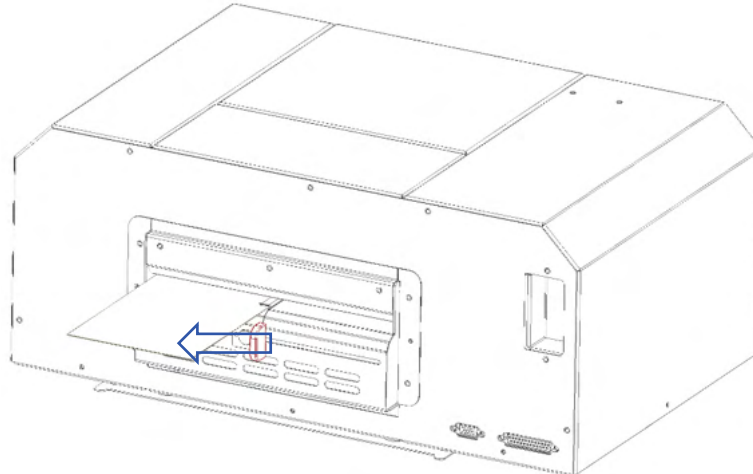
IMPORTANT! Peel off the first label and leave about 3 cm of liner in front of the first label to allow the printer to successfully teach the sensor onto the label stock.



3. Place the label roll onto the dispenser and thread the labels through the printer's media path. Ensure the labels are positioned flush against the left fixed stop for proper alignment.

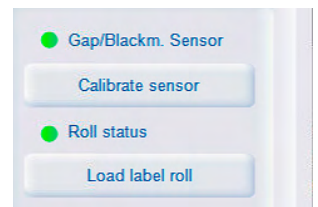


- Now approach and fix the movable right stop. The labels should have as little play as possible between the stops, but the liner must not be squeezed. The label web must always pass through the feed completely smooth and easily movable.

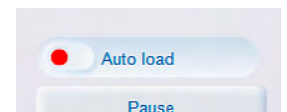


- Carefully advance the label web to the threading point (noticeable resistance).
- Depending on the setting in the DTM Toolbox, the label is fed **automatically** or **manually**:

With the **Auto-Teach + Auto-Load setting** in the DTM CLP2200e Toolbox, the process is started automatically, with the printer picking up the label on its own. The label is fed in, the sensor is taught (Teach) and the label is advanced to the print position (Load). In the DTM CLP2200e Toolbox, you can see the status of the successful teach (= sensor status) and load (= roll status) at the upper right. Green means successfully taught/loaded.



With the **manual** setting ("Auto load" red) in the DTM CLP2200e Toolbox, the sensor must first be taught using the "Teach/FF" button and then the label must be loaded using the Load button above it. If the sensor is **already taught** or the same label material is loaded as before, an (Auto-)Load is sufficient. It is not necessary to teach in the sensors again.

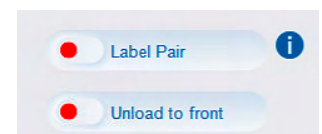


- The printer automatically reads the label & gap dimensions and displays them in the DTM CLP2200e Toolbox. The printer is now ready for operation.

 The process described here can also be carried out analogously via the DTM CLP2200e Toolbox. The functions of the hub are described in the separate chapter 5. Incorrect Toolbox settings can influence the functions described above, so that the printer may not react as described.

Special setting: "Label Pair"

- The function "Label Pair" in the settings tab must be set to "On" (Green) before the label is loaded, otherwise an error message will occur.
- The further procedure is the same as for the Gap label.



Special feature: The sensor "ignores" the first gap so that two labels are read as one and the total height of both labels is also displayed in the toolbox.

Special setting: Peeler

- After loading the labels, press the "Teach/FF" (= form feed) button repeatedly until there is enough label material ready to be inserted into the return gap under the peel-off edge.
- Remove the labels until only liner is present.
- Thread the liner into the return gap under the release edge and rotate the tension pulley until the liner is under tension.



Blackmark - Label

1. Set the label type in the DTM CLP2200e Toolbox to "Blackmark".
2. The label must be cut directly in front of the Blackmark strip so that it is still completely attached to the liner (do not cut in the middle).
3. With Blackmark, only the lower sensor is used, which radiates upwards and detects the reflection (especially the black stripe). Adjustment is usually not necessary. See "Gap Label" for details on vertical adjustment.
4. The further procedure is the same as for the Gap label.

Continuous - Label

1. Set the label type in the DTM CLP2200e Toolbox to "Continuous".
2. The label can be loaded directly (manually or via the auto feed function). No sensor needs to be taught or set and no label dimensions are read or displayed. The labels are printed continuously, one after the other on the label.
3. Make sure that the auto-teach is displayed in the DTM CLP2200e Toolbox.

Z-Fold

1. Set the label type in the DTM Toolbox to "Z-Fold".
2. Enter the page height (from perforation to perforation) in the DTM CLP2200e Toolbox and save it. The printer cannot read this automatically.
3. The label can be loaded (manually or via the auto feed function).

3.5.Switch label rolls

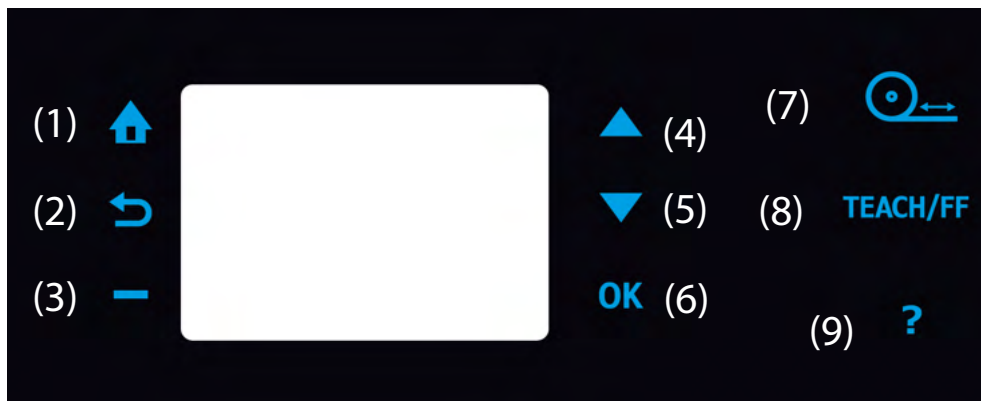
1. Remove any remaining label stock hanging out of the front of the printer.
2. Press the "Load/unload labels" button. The label stock will unload to the back of the printer.
3. Pull the remaining material out of the back of the printer.
4. Replace the old label roll with the new one on the unwinder and load it as described in chapter 3.4.



4. Overview of the printer

4.1. Display

The display allows the user to control the operation of the printer:

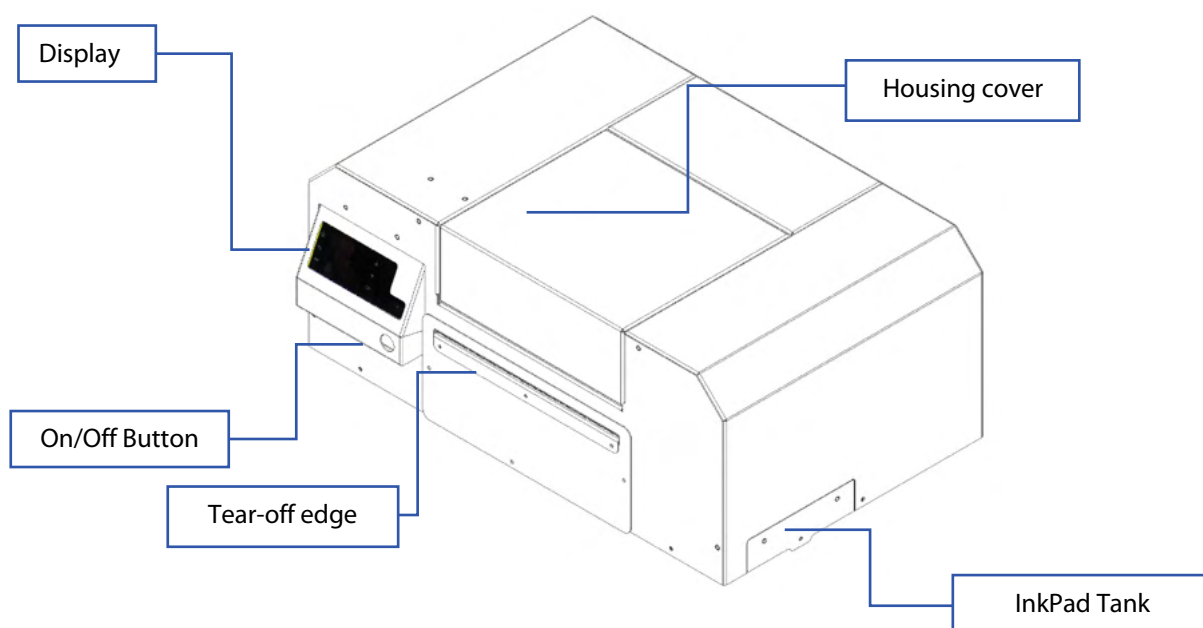


(1) Home	Setup - Printer settings - o Date and time - o Language - o Country/Region - o Brightness display - o Continue button - Extras - o Clean printhead - o Align printer (Calibration) - Print reports - o Print quality report - o Network configuration page Cartridge info - Ink levels - Low warning - Cartridge details Network - Ethernet Settings - Print reports - Restore network settings
(2) Back	Tap the "Back Button" to return to the previous menu.
(3) Minus	Tap the "Minus Button" to cancel the print job.
(4) Arrow up	Tap the "Minus" button to cancel the print job.
(5) Arrow down	Tap the "down arrow" button to scroll down the menu.
(6) OK	Tap the "OK button" to confirm the menu option.
(7) Load/Unload labels	Manual loading and unloading of the label roll.
(8) Teach/FF	If no label is loaded: Manual teach-in of the sensor (Teach) If label is loaded: Feed or output of one label length ("FormFeed")
(9) ?	Display of the following printer data: - Printer name - Product number - Serial number - Service number - MAC address - Firmware version

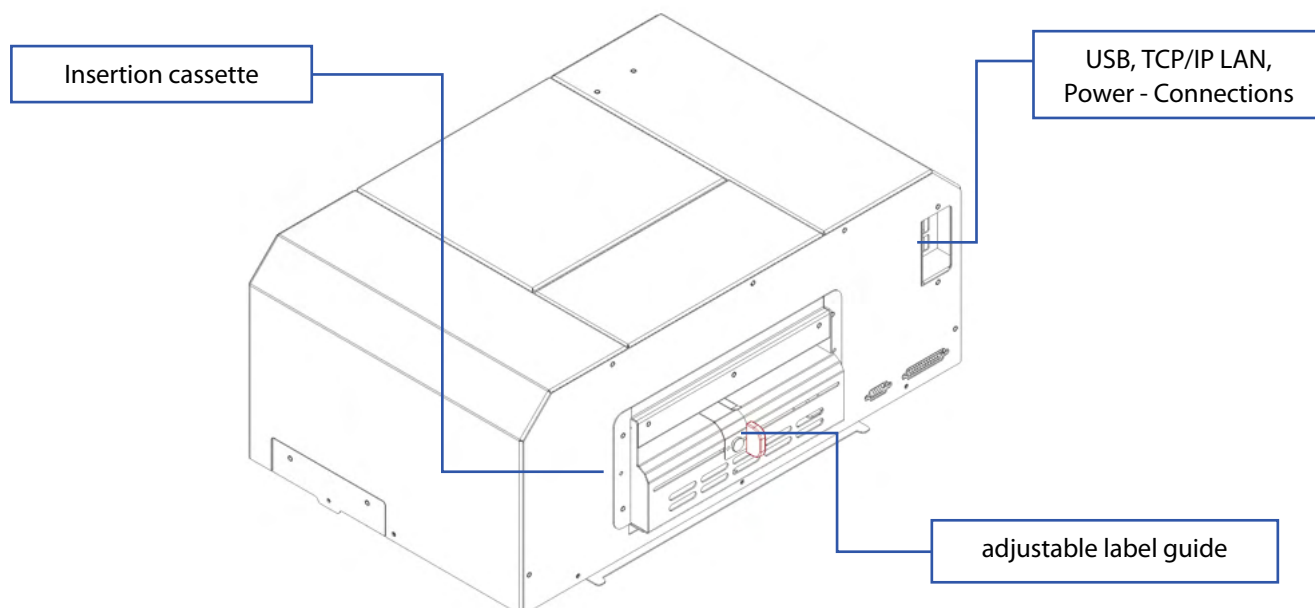


4.2.Designations and functions of the printer components

Standard front



Back



5. DTM CLP2200e Toolbox

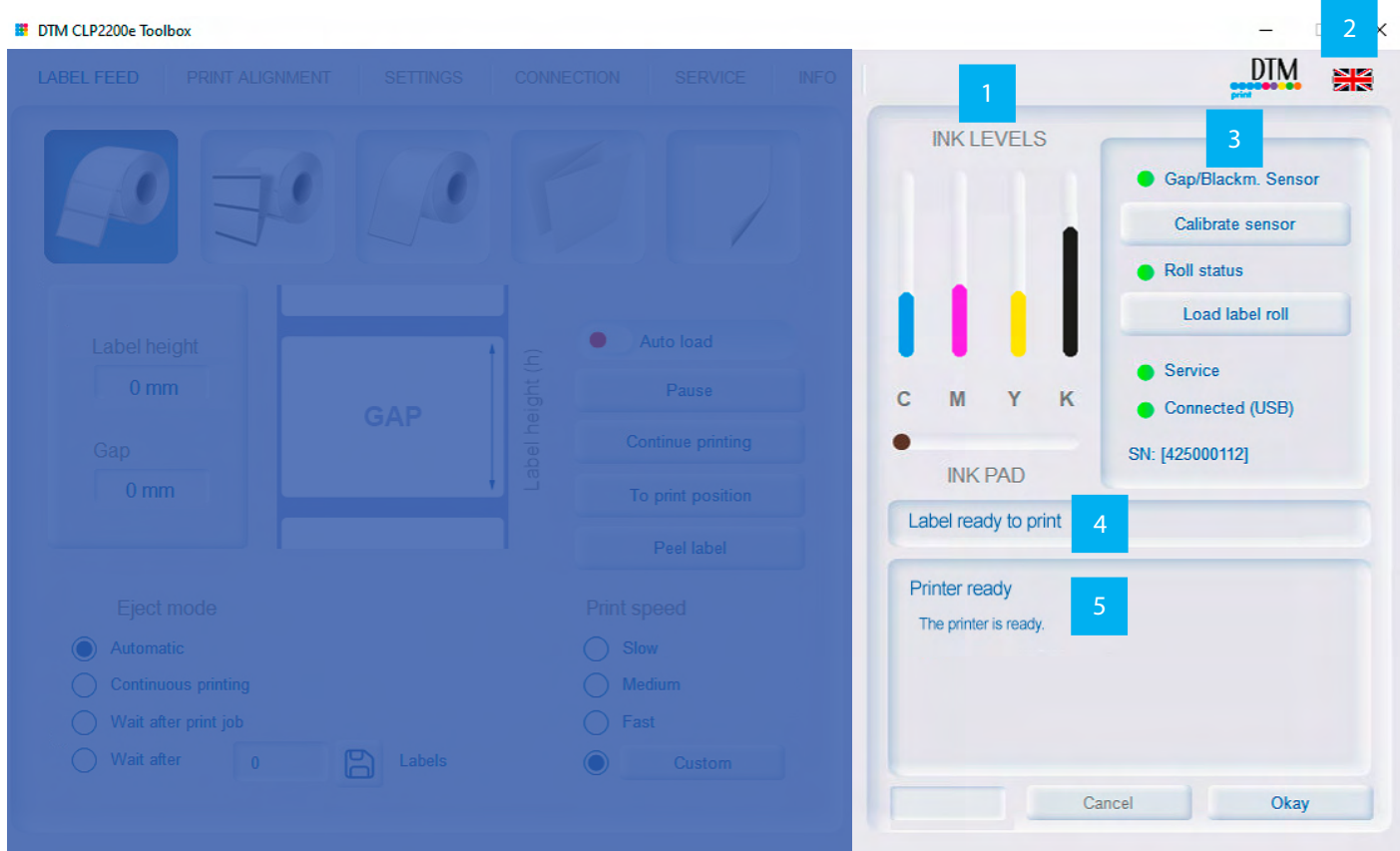
The **DTM CLP2200e Toolbox** (DTM Toolbox) is used to interact with the printer for tasks such as checking ink levels, performing maintenance and alignment, calculating costs, and accessing additional functions. The DTM Toolbox is a separate application that must be installed in addition to the printer driver. You can launch it from wherever you have placed the DTM_CLP2200e_Toolbox.exe file on your computer.

1. Connect the Printer via USB and turn on the power. DTM Toolbox accesses most of the information it uses from the printer itself, so the printer must be turned on and communicating for the program to be useful.

2. Open the DTM CLP2200e Toolbox on your desktop.

The DTM Toolbox (user console) provides the current status plus several settings and information, among others.

The right half of DTM Toolbox is for providing the current status:



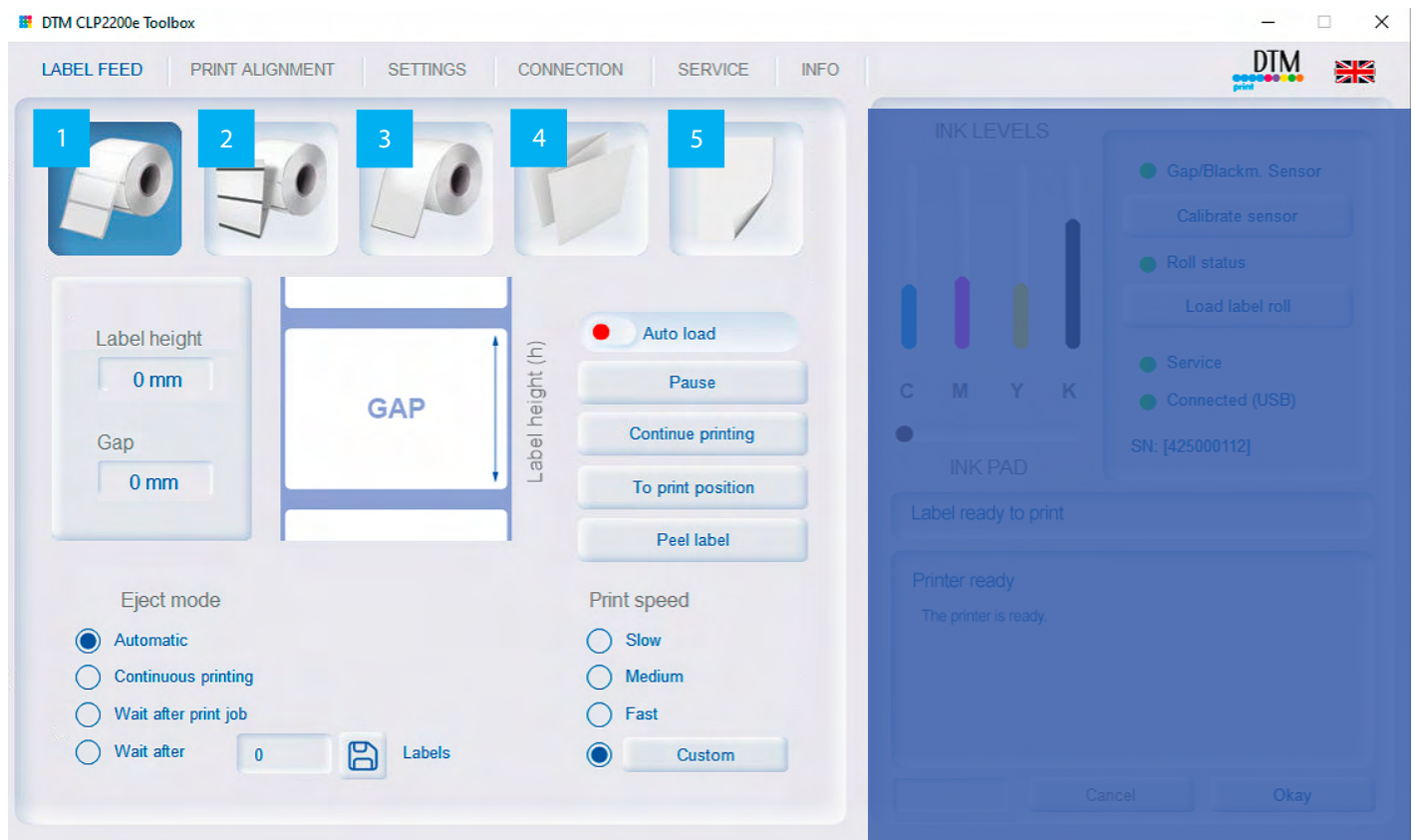
- 1 Current Ink Levels
- 2 Language Selection
- 3 Status of sensor, roll, service and connection
- 4 Label status
- 5 Printer status

5.1. Set the Label Feed and Sensor Mode

The label stock sensor mode determines how the printer detects the starting position for each label. To adjust the sensor mode, open the DTM Toolbox and go to the first tab, "Label Feed."

In most cases, you will not need to change this setting. By default, the printer is configured to detect standard die-cut labels. You only need to modify this setting if you are using clear labels, labels with a black sensing mark on the backing, zig-zag folded labels, or continuous label stock.

1. Connect the printer via USB and turn on the printer. The sensor mode setting is stored in the printer's internal memory, so you will not be able to access it unless the printer is turned on and properly communicating with the computer.
2. Open DTM CLP2200e Toolbox.
3. Select the sensor mode by clicking on the graphic that most closely corresponds to the stock you intend to install.
4. Refer to section "3.4 Loading and setting the labels" to load your labels.



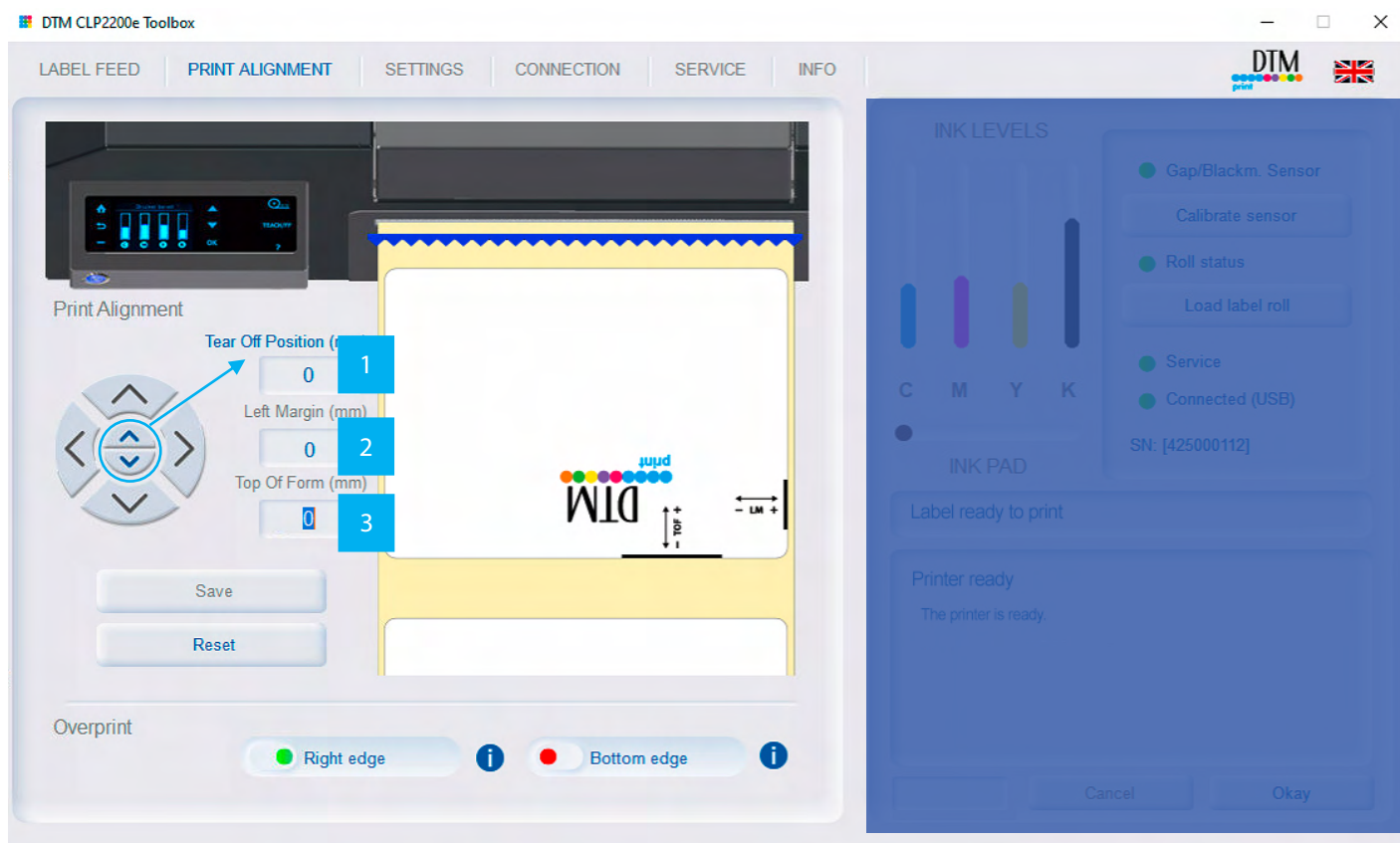
- 1 Die-Cut (Default). For standard die-cut labels that look similar to the graphic. Also, use this setting for Through-hole label material where a hole is punched through each label or a notch is cut in the side.
- 2 Reflective. For label material where a black pre-printed line (black mark) on the back of the label stock indicates the break between labels.
- 3 Continuous (Sensor off). For continuous stock with no die-cut, reflective mark, or holes. This setting will turn off the stock sensor. In this mode, there is no way to set the print starting position. The Printer will simply start printing the first label and print each subsequent label immediately after that previous one. To produce a gap between prints, simply add the desired amount of white space to the end of the label being printed. Important Note: You must also set the Stock Sensor Position (Section 3.4)
- 4 Zig-Zag. For zig-zag folded labels or perforated tags
- 5 Single sheets. For A4 document sheets.

5.2. Adjusting the Print Alignment

If your previous printing experience has mostly involved printing letters or cards on A4 paper, you may not be familiar with an essential aspect of label printing: print alignment. Standard office printers feed a full sheet and begin printing based on the sheet's leading edge. They also restrict printing near the edges to avoid alignment issues. The DTM CLP2200e works differently. It detects the beginning of each label using an optical sensor and can print all the way to the top, bottom, left, and right edges. Because of this flexibility, it is important to align the printer correctly for the specific label stock you are using. The DTM CLP2200e is factory-calibrated to print precisely to the edge of Genuine DTM InkJet Label Stock. However, due to variations in left margins and other factors, you may need to fine-tune the alignment at the start of each new roll.

Important Note: Before adjusting alignment settings, print at least one label using the same print quality you intend to use for the entire job. This ensures that the label stock feeds at the correct speed and that the sensor detects the gaps consistently.

You can adjust print alignment using the DTM Toolbox by opening the Print Alignment tab, which is the second tab in the application.



Three items can be adjusted here:

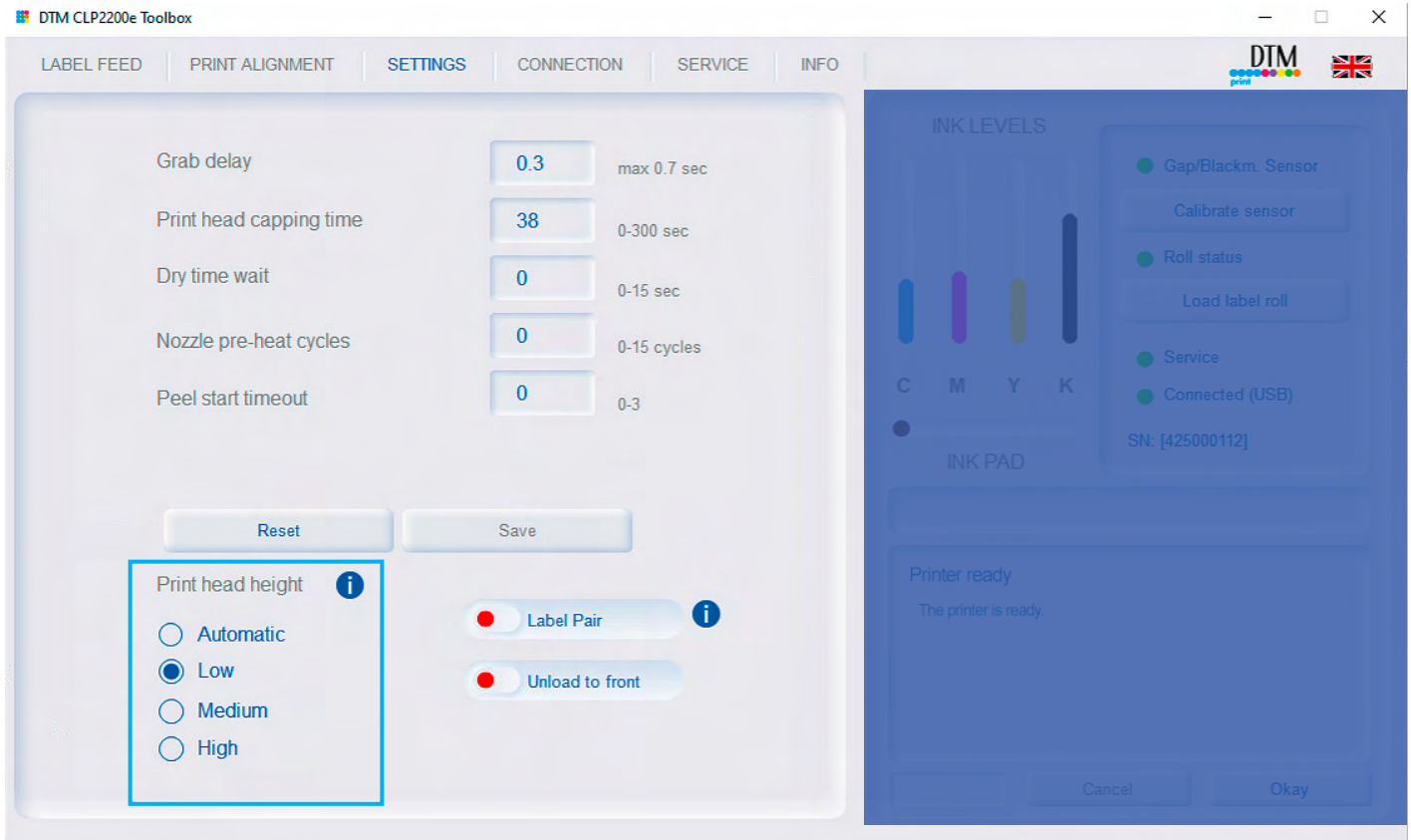
- 1 **Tear off Position.** This value adjusts the position of the last label printed after it has been presented for tear-off. Add to the current value to move the tear point closer to the Printer. Subtract from the current value to move the tear point away from the Printer. The value is automatically saved as soon as you set it.
- 2 **Left Margin.** This value moves the printed label left or right. Add to the current value to move the printed label to the right. Subtract from the current value to move the printed label to the left.
Note: Before adjusting this value, make sure the label stock is properly loaded so that there is no gap between the edge of the liner and the fixed throat guide. Any gap at this point will greatly affect the Left margin offset value needed to align the label. Also, if you adjust the value with improperly loaded label stock, you will have to adjust it again if you load the label stock correctly the next time.
- 3 **Top of Form.** This value moves the print start position up or down on the label. Add to the current value to move the printed label down or toward the Printer. Subtract from the current value to move the printed label up or away from the Printer. The value is automatically saved as soon as you set it. You may have to make several



adjustments to one or more of these values. After each adjustment you can click the Test button to print a small test pattern on the label. This will help you find the proper alignment value.

5.3. Print head height

The print head automatically adjusts its distance to the label. If needed, you can manually set a fixed height. For example, to improve print quality or to prevent smearing.

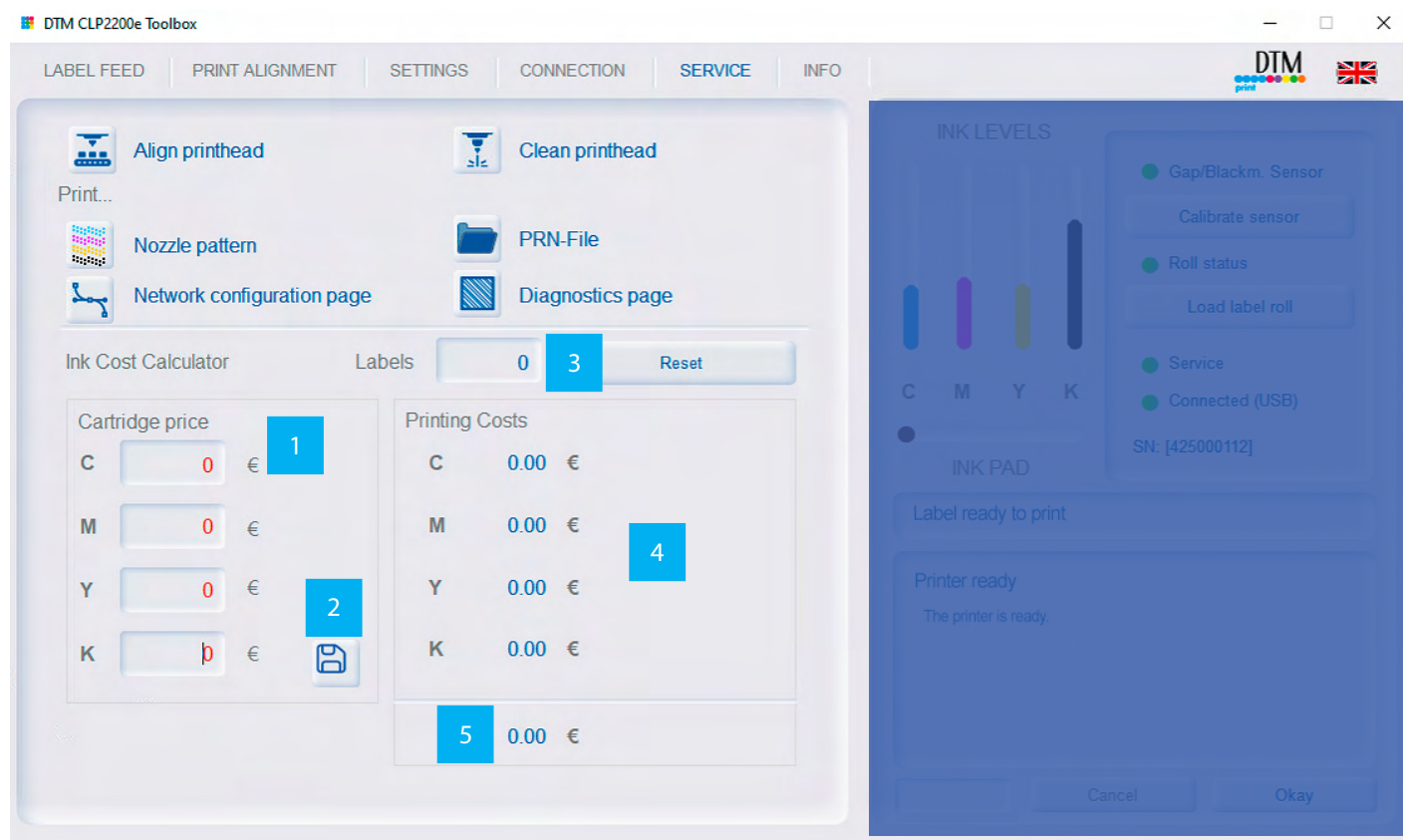


5.4. Using the Ink Cost Calculator

The cost calculator is located on the fifth tab of the DTM Toolbox. On the left side, under **Cartridge Price**, enter the actual amount you paid for the cartridge. Press the save button. You can print as many labels as you like. For the most accurate results, print at least five labels – accuracy increases with a higher number of printed labels.

The displayed **Printing Costs** represent the total printing cost for the number of labels produced. To display the printing costs of a new label design, reset the "Labels" counter (3) and start printing.

To determine your **cost per label**, divide the total printing cost by the number of labels printed.



- 1 Enter the price per cartridge.
- 2 Save
- 3 Number of labels printed (calculated)
- 4 Printing costs for the number of labels printed (see 3)
- 5 Total printing costs for the number of labels printed (see 3)

5.5. Advanced Toolbox Settings

5.5.1. Print Speed Adjustment

Caution! Only change the settings when you are an experienced operator!

Open Toolbox. Navigate to the Tab "Label Feed"

1. Press "Custom" in the "Print Speed" section.
2. The Print Speed Pop-Up opens.

DTM CLP2200e Toolbox



Print Speed: Label

Defines the forward movement speed of the label during printing.

When using a wide 210 mm roll with a large roll diameter and the print mode set to Draft, this can cause significant slipping (material slipping through the transport).

To prevent this, a speed limit can be applied. Because the Top-of-Form sensor (Gap / Black Mark) is located behind the printhead, slipping will shift the start position of the next label by the amount of slip.

0 (default) means no additional limitation by the printer firmware.

In this case, print speeds are determined by the print job quality settings:

- Draft → faster printing (fewer passes)
- Best → slower printing (more passes)

Print Speed: Print head

The speed at which the printhead moves horizontally. This setting does not affect the number of passes.

0 means no additional limitation. The left-to-right movement speed depends on the driver settings:

- Draft → faster movement (fewer passes)
- Best → slower movement (more passes)

If slower printing is required even in Draft mode, a limit can be set here.



Eject speed

The speed at which the printer moves to the peel edge after printing is complete

Peel speed

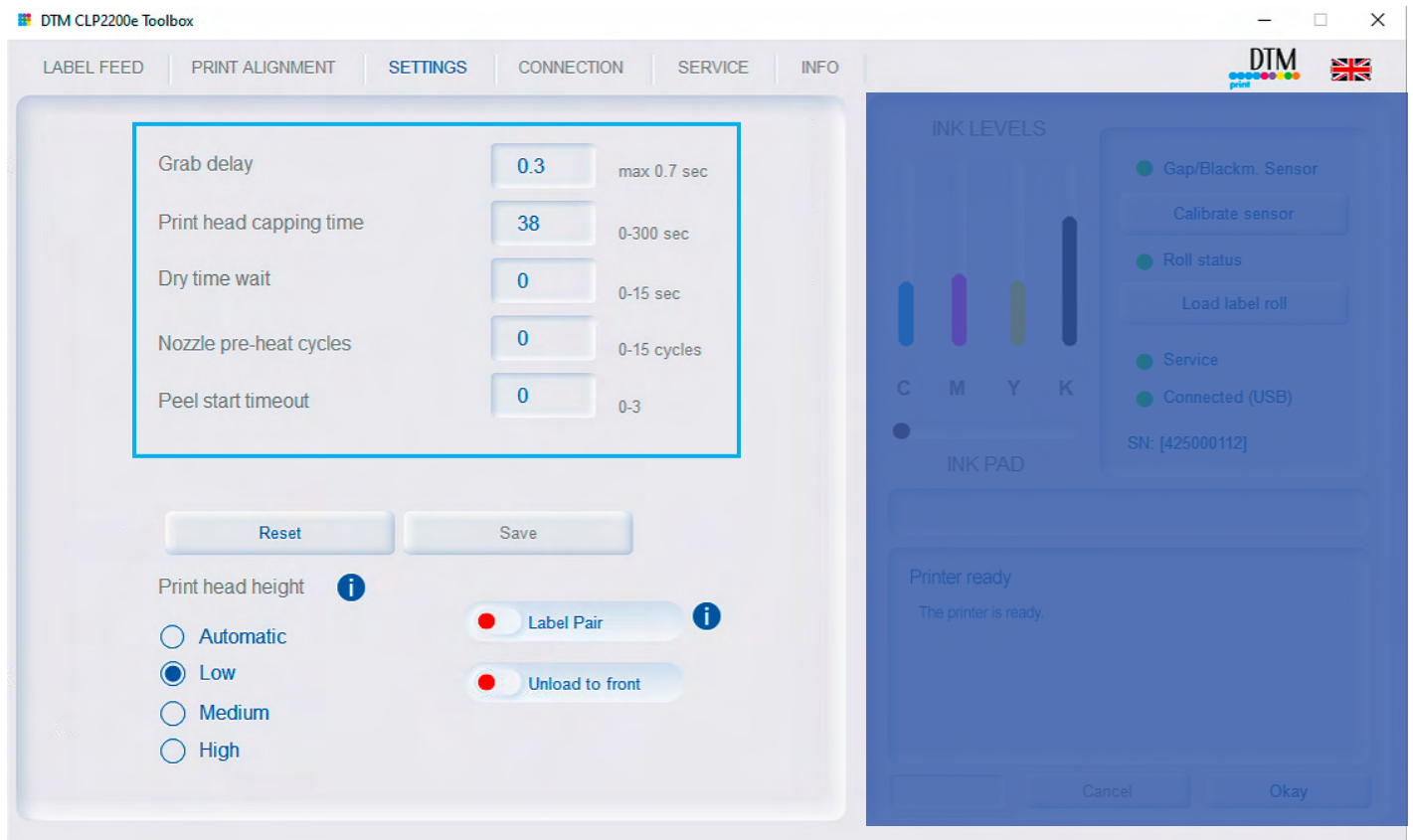
The speed at which the label is dispensed at the peel edge.

This can be limited to reduce slipping or to match the peel speed to an external applicator, such as a rotary applicator for bottles or cans.

5.5.2. Printer Settings

Open Toolbox. Navigate to the Tab "Settings"

Caution! Only change the settings when you are an experienced operator!



Grab Delay

The time between detecting the leading edge of the material at the sensor and starting material transport (roller rotation).

Background: The material is detected before it reaches the rollers. The user should push the material up to the rollers so it can be fed correctly. Therefore, a short delay is applied before the rollers start turning and gripping the material.

Print head capping time

The time the printer waits before parking the printhead back in the service station.

Background: If labels are printed at regular intervals (for example, every 40 seconds), the time required for capping and decapping between print jobs can be avoided. This also helps reduce mechanical wear.

However, leaving the printhead uncapped for too long may cause it to dry out. The printhead closing time can be adjusted to match the cycle time of an automated printing process.



Dry time wait

After printing is completed, the label remains on the peel plate for the specified drying time. Only after this time does the printer signal that it is ready to peel. This prevents the applicator from picking up a wet label and smearing the print.

Nozzle Pre-heat cycles

Defines the warm-up process (spitting) performed before a print job to clear the nozzles.

If the printhead is not sufficiently warmed up, missing droplets may occur at the beginning of the print image, for example causing incomplete characters in the first line. This setting helps prevent such issues.

Peel Start Timeout

By default, the timeout is factory-set to infinite. Alternatively, values such as 30 seconds or 5 minutes can be configured.

The time between completed printing and the expected peel command (via PLC, DLL, etc.) is monitored. If the peel command is not received within the specified time, the printer enters an error state.

This allows monitoring of the application unit.

Decap Spit Volume

The amount of ink ejected for cleaning during printing while the printhead is decapped (exposed).

Cleaning occurs at regular intervals between print sweeps. The ink volume used for cleaning is configurable.

Lower values reduce ink consumption but increase the risk of nozzle clogging. Depending on print volume and usage, this value can be adjusted accordingly.

Peel Plate

Specifies the length of the installed peel plate.

The peel plate is interchangeable; this setting defines which version is currently installed.

When moving to the eject position (peel edge), the printer must know the exact length of the installed peel plate.

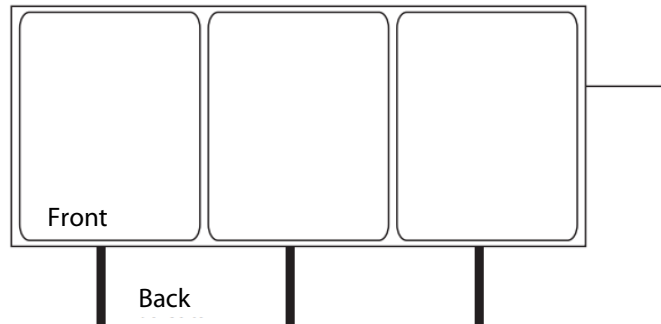


6. Designing and printing labels

6.1. Overview of the label materials

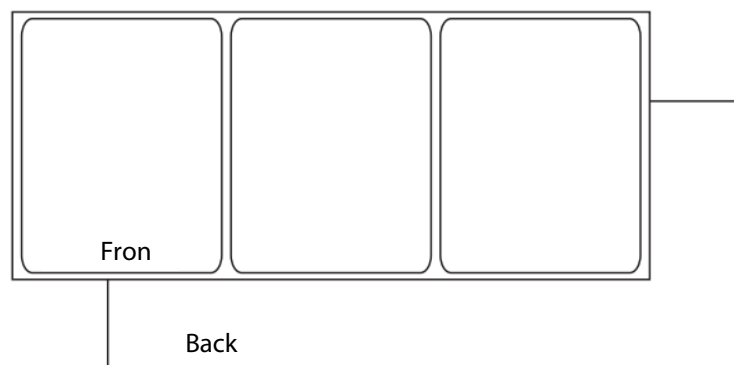
Blackmark (Material with reflection marks)

In the case of material with reflective marks, there are black line marks on the reverse side of the backing material. These marks are read by a sensor in the printer, which thus determines the starting point of a new label.



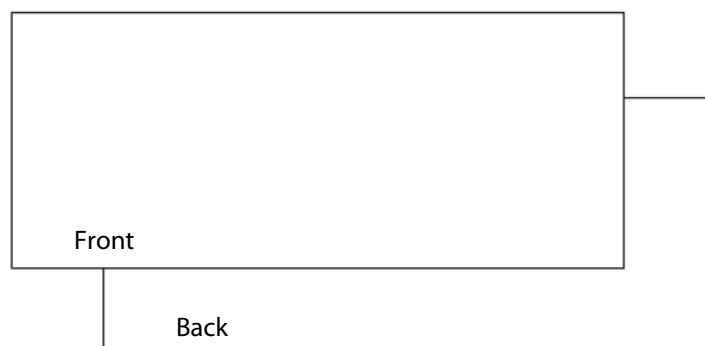
GAP (Material with gaps)

This material has gaps between the individual labels. The die-cut labels are separated by gaps. These gaps are read by the two sensors in the printer, which thus determines the starting point of a new label.



Continuous (Continuous material)

Continuous material has no reflective marks. This material is also not die-cut and therefore has no gaps. It is continuous label material on a liner.



6.2. Selection of the design software

You can use any design software as long as it supports print output. There are a variety of software products available for graphic design applications. Therefore, choose the program considering your specific workflow and design requirements.

Suitable design software available from various software providers:

- NiceLabel
- Bartender
- Third-party applications - A wide variety of graphic design programs are offered by other software vendors such as Adobe, PDF, Word, and Corel. Adobe Photoshop, Illustrator and similar professional image editing programs provide powerful tools for creating your artwork.

6.3. Printing labels

1. Make sure that the desired label material is loaded.
2. Open the label file with the appropriate software. Select the print option and then enter the number of copies to be printed.
3. Print the labels.
4. If necessary, use the DTM CLP2200e Toolbox to view printer and job status information or make specific settings.
5. Remove the printed labels.

Note! Do not pull on the printed labels as they exit the printer. Pulling on the labels can cause a paper jam.

6.3.1. Printing from a PC using BarTender

DTM Special Edition BarTender UltraLite is included with the DTM CLP2200e. You can download it at the link below. Use the code below when prompted after installation.

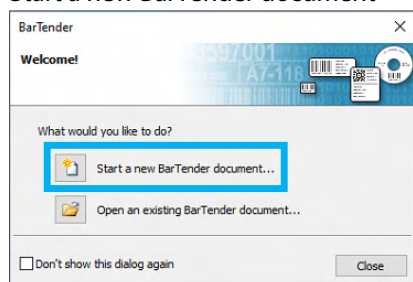
Download: <https://portal.seagullscientific.com/downloads/bartender>

Code: Z1J6-MY8X-N2B2-R2LH

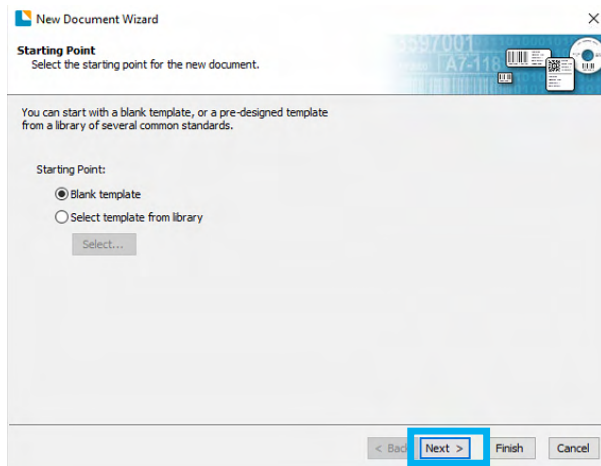
Other programs can be used to print. If printing from other programs, please follow the guidelines in Section 6.3.4.

Use the following instructions as a guide through the wizard setup process.

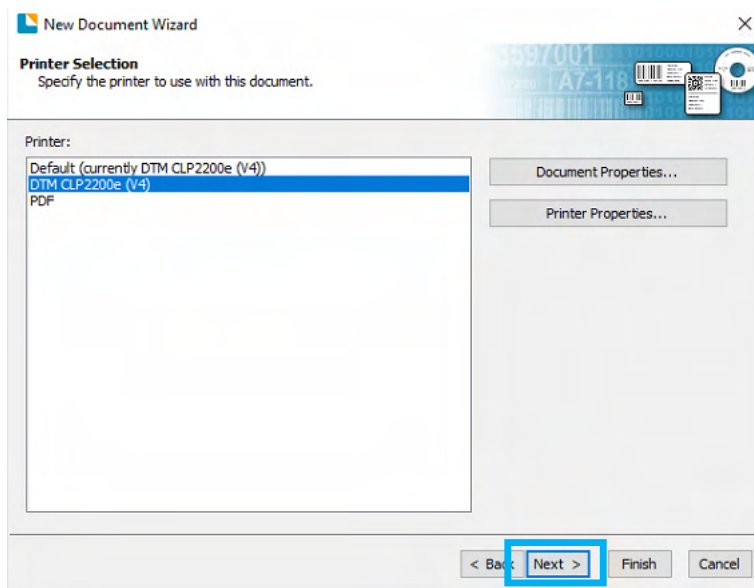
1. Start a new BarTender document



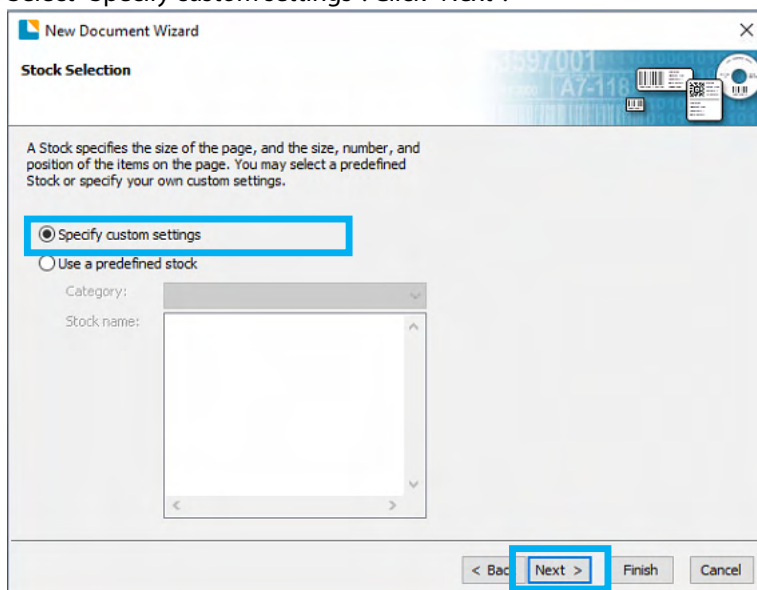
2. Select "Open a blank template". Click "Next".



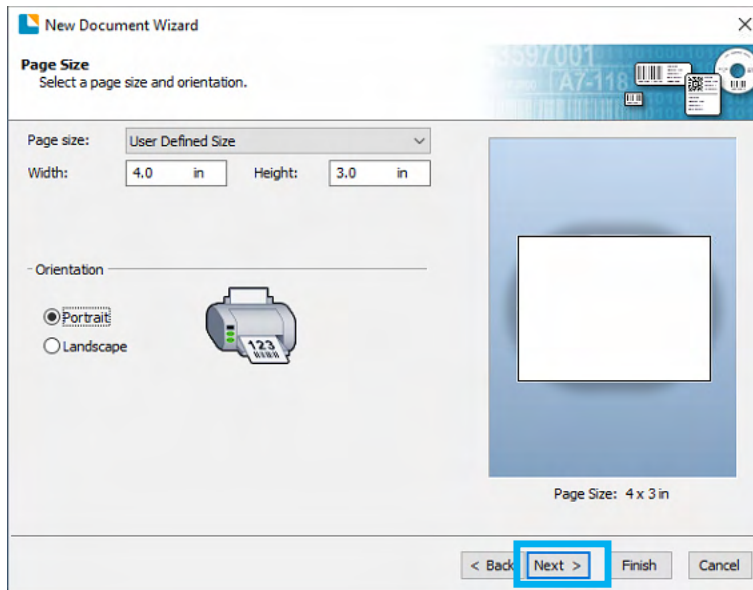
3. Select "DTM CLP2200e". Click "Next".



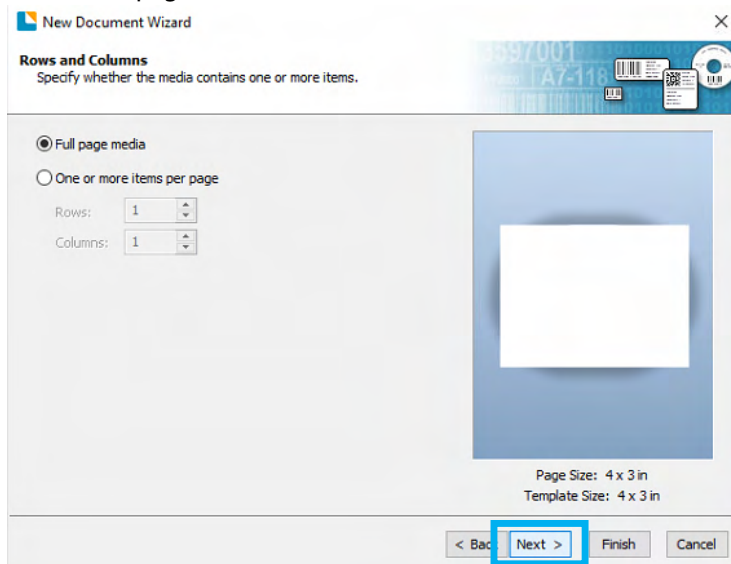
4. Select "Specify custom settings". Click "Next".



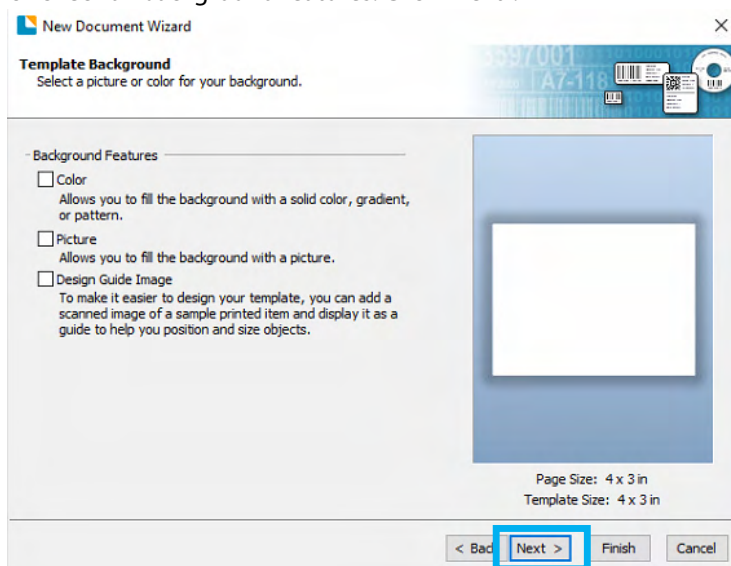
5. Set the template size to match labels installed in the Printer. Change the Template Size to User Defined Size to gain access to width and height. Click "Next".



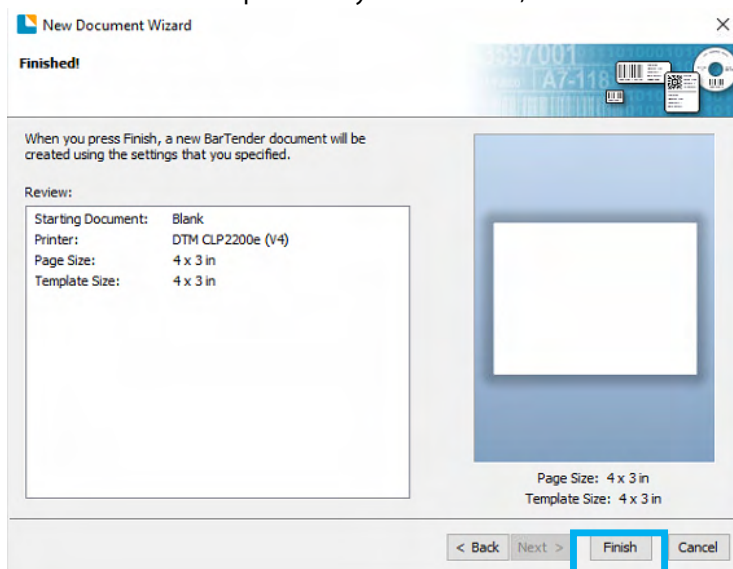
6. Select "Full page media". Click "Next".



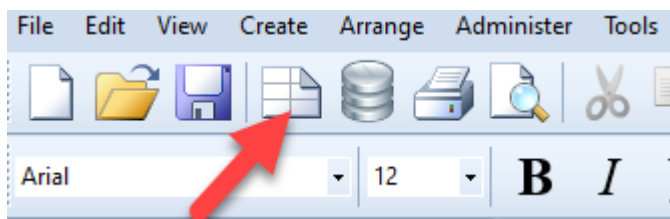
7. Uncheck all background features. Click "Next".



8. Review the label setup summary. If it is correct, click "Finish". Your blank label will be displayed.



You can edit any of these initial settings by going to the File Menu and selecting "Page Setup". Basic and advanced settings are available on the various tabs or click on the Page Setup Icon.

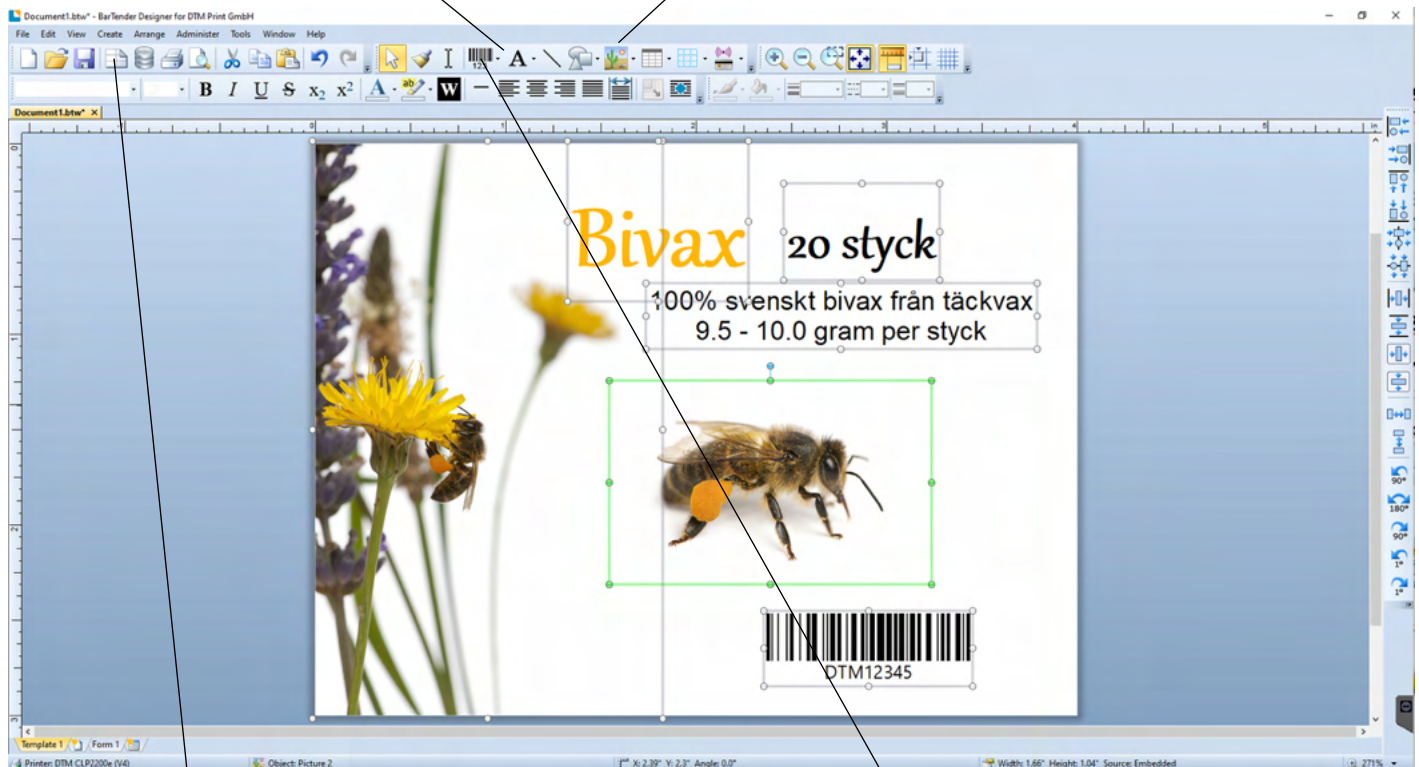


6.3.2. Add Text, Barcodes, and Graphics to a BarTender Label

Once you have created your label size you will be able to add text, a barcode and/or graphics. This can be done using one of the buttons on the button bar at the top of the screen.

Add Text. Click the Text button. Now click anywhere on your label. "Sample Text" will appear. Edit the text on screen or double click it to open up text settings to change font, size and other settings.

Add Graphic. Click the Image button. Now click anywhere on your label. An Image icon will appear. Double-click it to open up image settings and browse to the image/graphic that you would like to insert.



Page Setup. Click the Page Setup button to change your label size, adjust corner radius or change the shape.

Add Barcode. Click the Barcode button. Now click anywhere on your label. A barcode settings window will appear. Here you can choose any type of barcode and enter the value.

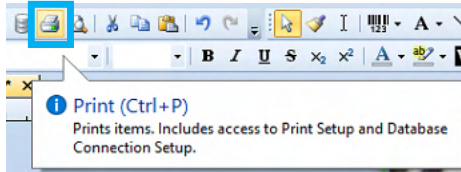
Tip! Double-click any object to open settings for that object.

Tip! Go to the Help menu to access the BarTender Manual and Tutorials.

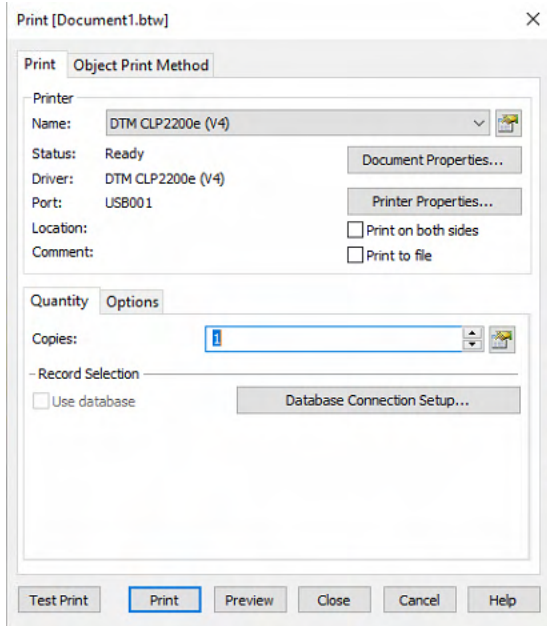


6.3.3. Printing from Bartender

1. To print, click the Print button or go to "File" > "Print".



2. The Print Dialog window will appear.



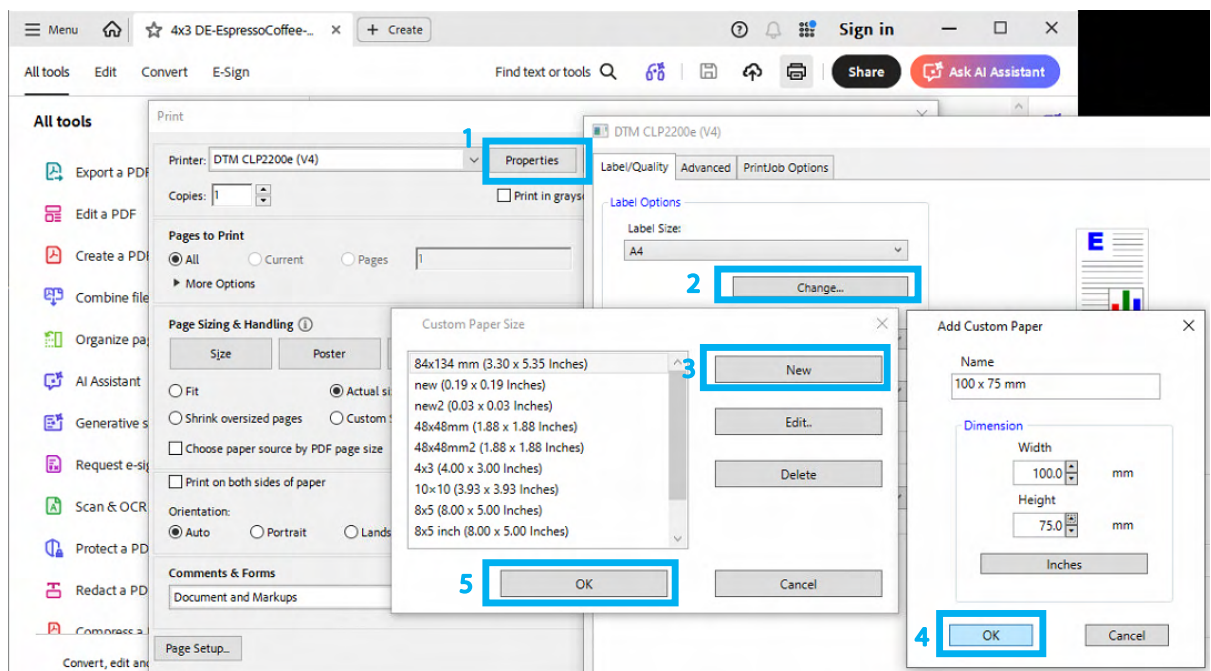
3. Click "Document Properties..." to access the print quality settings.
4. Set the number of copies.
5. Click Print.
6. To change the printer settings, click "Document Properties...".

Tip! Click on "Document Properties" to adjust driver settings like Print Quality and Colour Matching.

6.4. Printing from other programs

Since this Printer uses a standard Windows printer driver you can print from any application you would like. There are just a few things to remember that will make it much easier.

1. **Set the Page/Label Size in the Driver.** BarTender automatically prompts you for the size of the label that you are using. When printing from any other program you must do this manually. Before you print, simply set the custom page size just as you would set print quality in the printing preferences.
 - a. Find „Label Size“,
 - b. Click „Change“. The „Custom Paper Size“ window shows all custom paper sizes.
 - c. Click „New“. The „Add Custom Paper“ window opens.
 - d. Name your new custom paper size as you wish and type in your label dimensions. In the example below the label size is 100 mm x 75 mm. You can switch the units by clicking the Inches/Millimeters button. Click „OK“.
 - e. In the „Custom Paper Size“ window click „OK“.



- f. Select your custom paper size in the „Label Size“ dropdown menu
2. **Choose the right printing program.** There are many different applications that are capable of printing to the DTM CLP2200e. However there are only a few that are ideal printing applications. For example, Adobe Illustrator is an excellent design program but is not always the best printing program. It can be difficult to find the printing preferences or to know the exact size of the art board. It is best to save as a PDF file and print from Adobe Reader or export as a 300 dpi JPG and print from BarTender or NiceLabel.

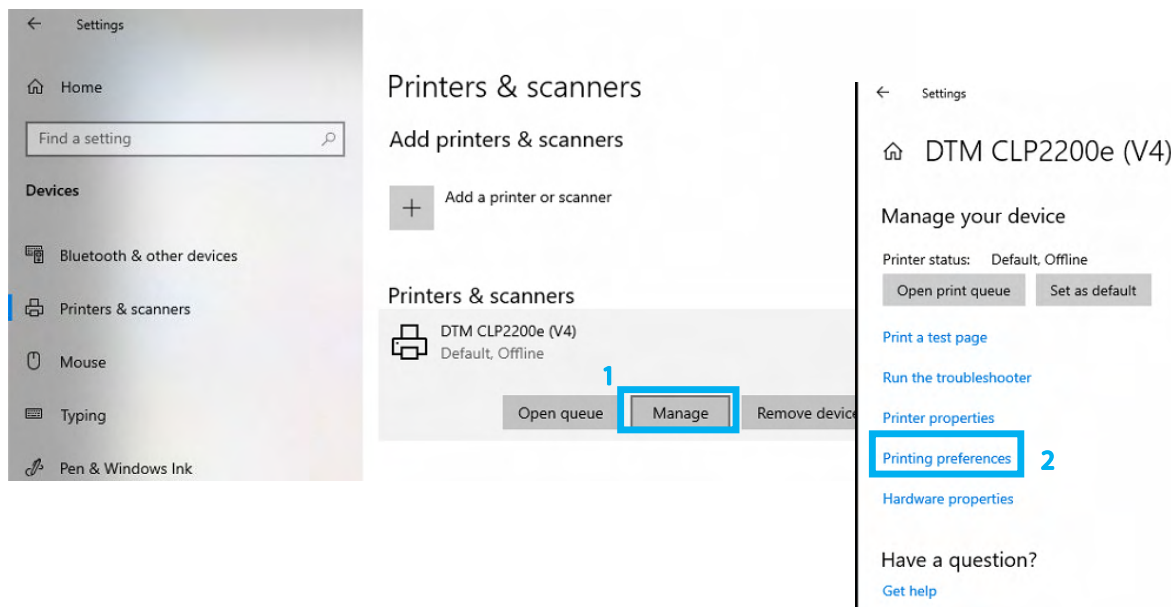


6.5. Printer Driver settings

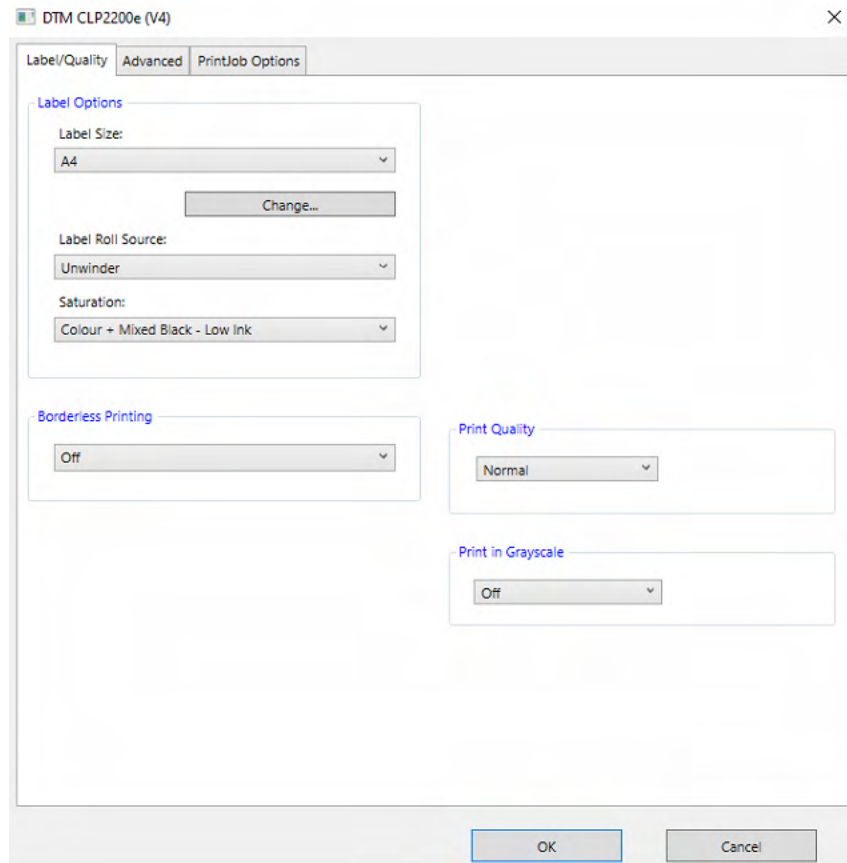
Once the printer driver has been successfully installed, you will need to setup the driver with the appropriate print options. Refer to the following steps to change or verify your default printer driver preferences. These settings will apply to all new designs created in BarTender or other programs after the preferences were changed.

To find Driver Settings:

Click the **Start** button, search for "Printers". Select Printers and Scanners. Select the DTM CLP2200e. Choose Manage. Select Printing preferences.



The preferences screen will appear.



Note on PC Settings: Most applications allow you to change these same printer driver options from their "Print" and/or "Printer Setup" screens. Some applications save your settings with the label, others use settings only for the current print job just sent to the printer.

Paper Size

You will need to select the label size corresponding to the dimensions of your label. Keep in mind that the dimensions are always relative to the width and height of the actual label in the Printer. Orientation of an image on the label should not change this setting. See Section 6.3.4 for creating a new paper size.

Saturation

There are several options available depending on which cartridge is installed (Pigment or Dye). The options will update automatically depending on which cartridges are installed.

This dropdown menu gives you 15 saturation settings for the best possible output. These will also affect the cartridges being used in the printer.

Saturation Setting	Cartridges used for Coloured Areas	Cartridges used in True Black Areas
Colour + Pure Black	Cyan, Magenta, Yellow, Black	Black
Colour Only	Cyan, Magenta, Yellow	Cyan, Magenta, Yellow
Colour + Mixed Black	Cyan, Magenta, Yellow, Black	Cyan, Magenta, Yellow, Black

When you want black areas to print with the black cartridge only, make sure the areas are 100% black (R 0, G 0, B 0) and the saturation setting is Colour + Pure Black.

"Colour + Pure Black", "Colour Only" and "Colour + Mixed Black" are subdivided by "**– High Ink**", "**– Medium Ink**" and "**– Low Ink**". If you want to have low saturation on your label, select a setting with "**– Low Ink**", if you want to have a good saturation select "**– Medium Ink**" and if you want high saturated label use a saturation setting with "**– High Ink**".

If the ink is not drying fast enough or "bleeding", you can use the „ – Low Ink“ saturation setting to lessen the amount of ink that is applied to the label.

The Saturation settings having "Proof" in their name use unidirectional printing mode, which are best for super high-quality printing demands (in some cases) such as photos, but give the slowest output. All other Saturation Settings use bidirectional printing mode, for fastest print speed.

Note: Bidirectional printing moves the printhead in both directions while printing, which can slightly reduce alignment accuracy but increases speed.

Unidirectional printing prints only in one direction, resulting in more precise and consistent print quality but slower output.

Saturation Setting	Printing Mode	Print Speed
Colour + Pure Black	bidirectional	Fast
Colour + Pure Black - Proof	unidirectional	Slow
Colour Only	bidirectional	Fast
Colour Only - Proof	unidirectional	Slow
Colour + Mixed Black	bidirectional	Fast
Colour + Mixed Black - Proof	unidirectional	Slow

Print Quality

There are three levels of print quality in the driver. The lower the quality the faster the print. „Draft“ provides the fastest print available while „Best“ provides the best quality. It is recommended that you experiment with the different levels when designing your label to find a good balance between print quality and print speed. „Normal“ is the default.

Print in Grayscale

If you want to print in grayscale mode only, select „High Quality Grayscale“ (for printing with all cartridges) or „Black Ink Only“ (for printing with black cartridge only) mode.



7. Printer maintenance

7.1. Changing the ink cartridges

When the remaining ink reaches a certain level, a message appears in the DTM TOOLBOX to tell you that the ink in the corresponding cartridge is almost empty. As soon as an ink cartridge is empty, a corresponding message appears, and the printing process is stopped.

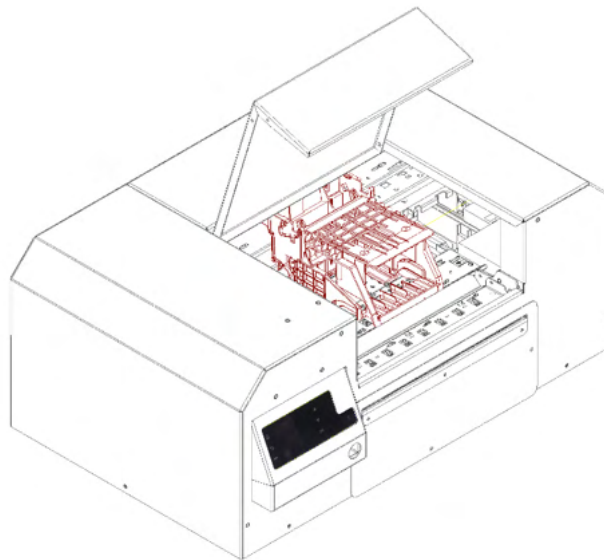
The printer has four ink cartridges: Cyan, Magenta, Yellow and Black.



Warning! For safety reasons, keep ink cartridges out of the reach of children. In case of accidental ingestion of ink, please seek medical attention immediately.

- To protect the print head, printing operation is stopped before the ink is completely used up. For this reason, a small amount of ink remains in the ink cartridge to be replaced.
- To achieve good printing results, you should use up each ink cartridge within six months of opening the package.
- Perform ink cartridge replacement as soon as possible. Do not leave the print head with ink cartridges removed, otherwise it will dry out.
- If you store the used printhead outside the printer, please seal it airtight with the supplied printhead cap to prevent it from drying out.
- Please make sure that your clothes or the surrounding area are not soiled by the used ink cartridge

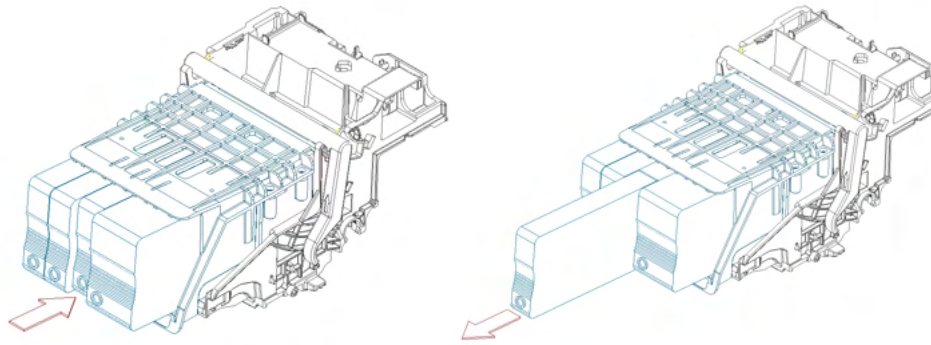
1. Open the housing flap.



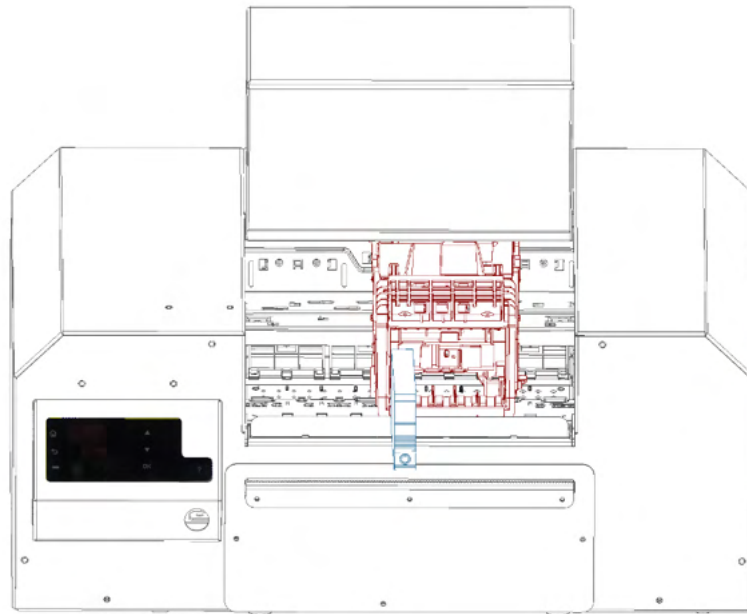
2. The printhead carriage automatically moves to the centre (service position) and stops there.



3. Remove the empty ink cartridge by tapping the ink cartridge. The ink cartridge will then "pop out" a little so that the ink can be removed.



4. Remove the ink cartridges from the packaging. Remove the packaging material.
 - a. Do not touch the ink outlet ports and the connectors under any circumstances to avoid contaminating the surrounding work area, damaging the ink cartridge, and affecting the print quality. Do not drop the ink cartridges and avoid applying increased force.
5. Slowly push the ink cartridges into the slots provided as far as they will go until you feel them "click" into place. The slots are colour-coded accordingly. Repeat this step for each colour.



6. Close the housing cover.
7. Dispose of a used ink cartridge in accordance with legal and regulatory requirements.

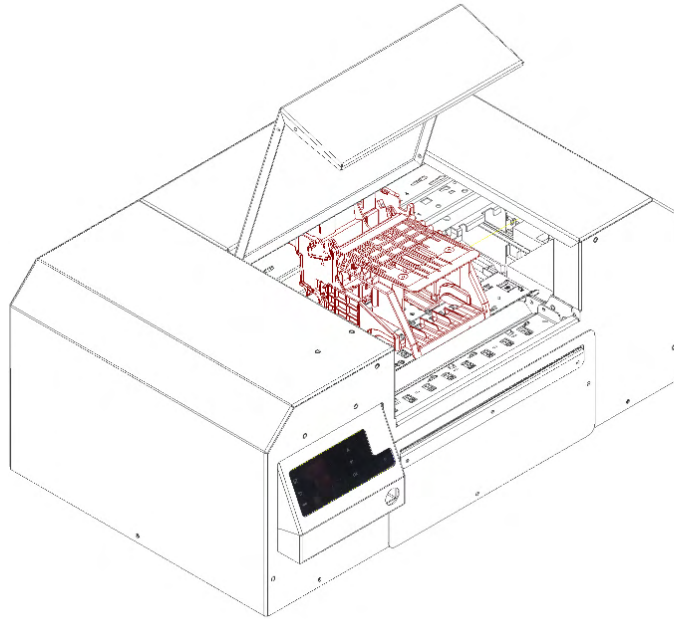
7.2.Replacing the printhead

Damage to the printhead due to improper handling!

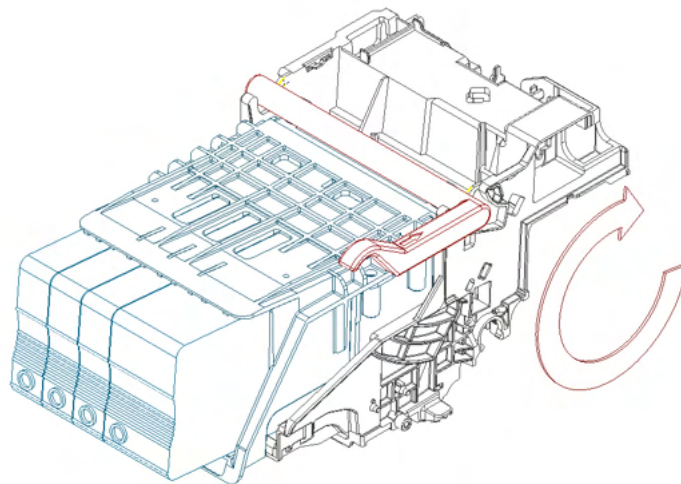
- Do not touch the underside of the printhead with fingers or sharp objects.
- Make sure that there is no contamination on labels.
- Ensure that the label surface is smooth. Rough labels act like emery and reduce the service life of the printhead.

i When changing the printhead with a new, unfilled printhead, a new set of ink cartridges must always be inserted for initialization. After a printhead change, the printer must be realigned/calibrated.

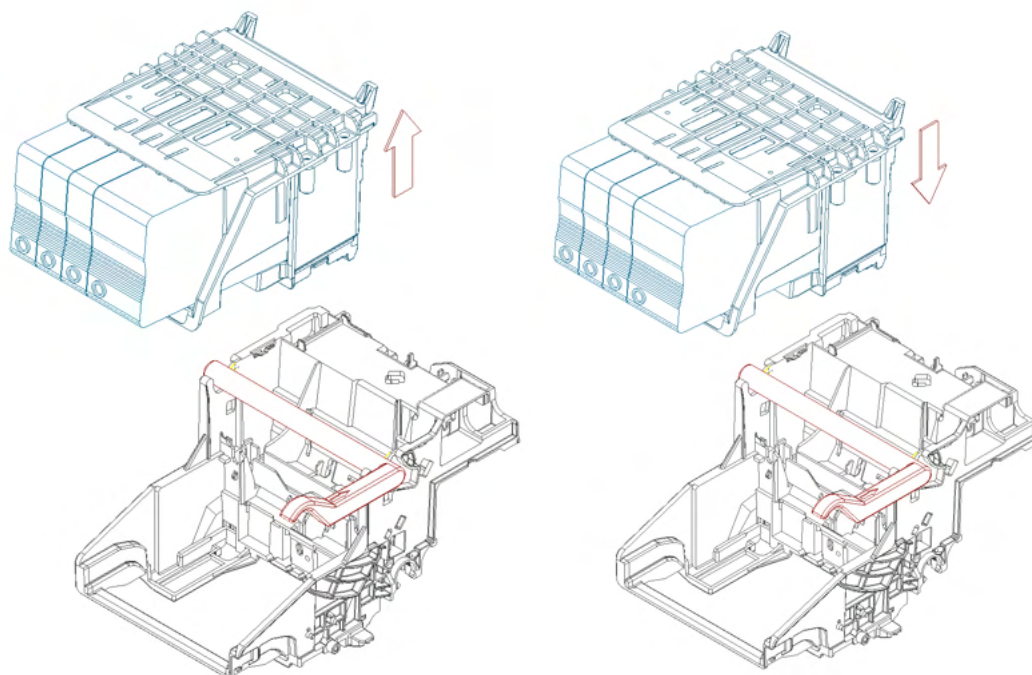
1. Open the housing cover.



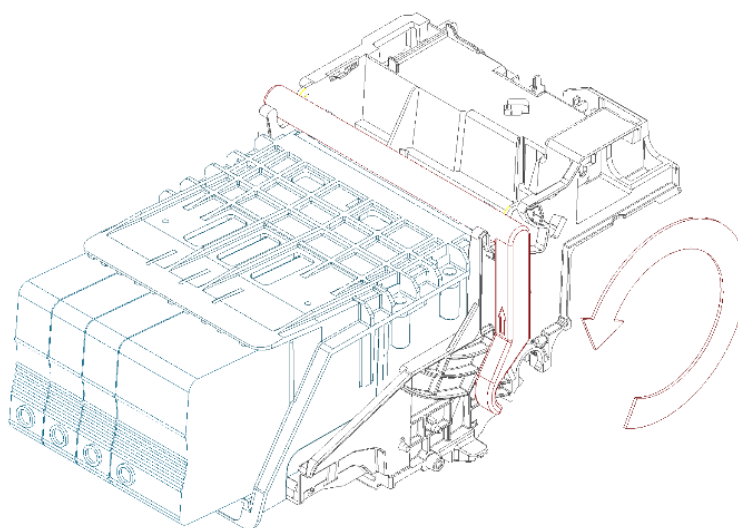
2. The printhead carriage automatically moves to the center (service position) and then stops.
3. Flip up the white lever of the printhead lock.



4. Then remove the old printhead together with the ink cartridges. Insert the new printhead with the new ink cartridges in the slots provided. The fields are colour-coded accordingly.



5. Fold down the printhead latch and close the housing cover.



7.3.Replacing the Ink-Pad

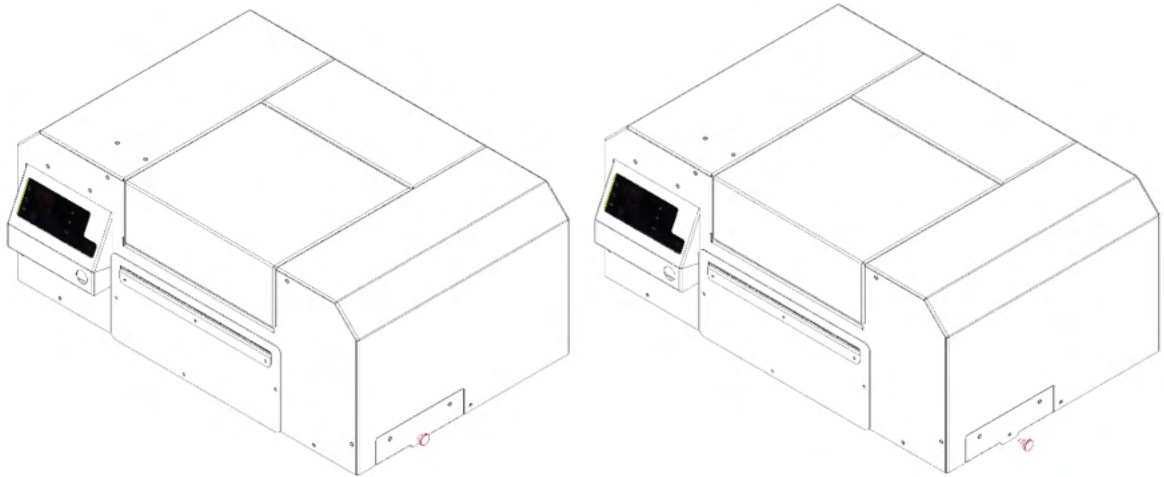
As soon as the ink pad is filled with the collected ink, the error message "Ink pad full" appears in the DTM TOOLBOX and the print job is stopped. You can view the ink pad fill level via the DTM TOOLBOX under the ink level indicator.



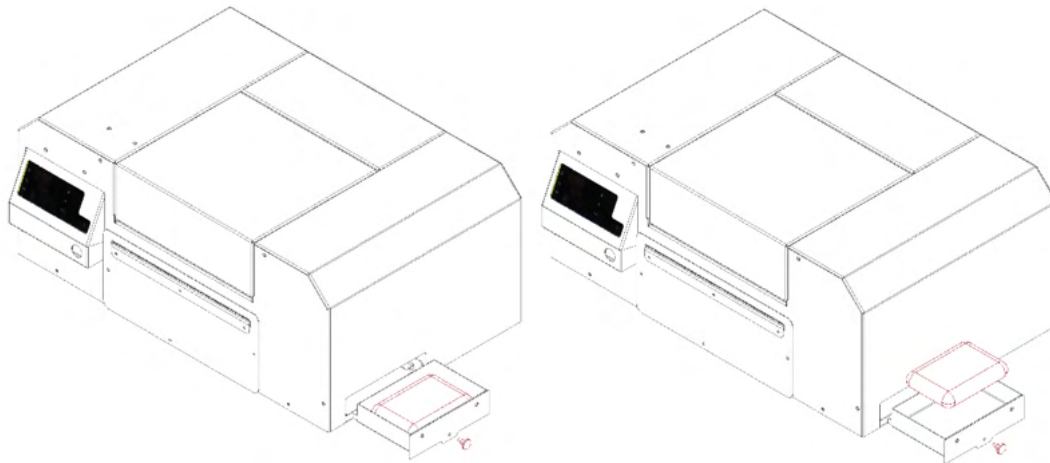
Warning! For safety reasons, keep the ink pad out of the reach of children. In case of accidental ingestion of ink, please seek medical attention immediately.

After using the ink pad, ink settles in the upper area. To prevent ink from leaking from a used ink cartridge, please make sure that the cartridge does not fall down. Otherwise, ink could leak out and cause soiling.

1. Unscrew the knurled screw of the InkPad container on the left side of the printer.



2. Pull out the InkPad container on the printer side and put on the supplied gloves. While removing the ink-filled InkPad, be careful not to drop or tilt the pad. Spilled or splattered ink may stain the floor or your clothes.



3. Insert the new InkPad. Reinsert the InkPad container into the printer and tighten the knurled screw. Now reset the filling level of the InkPad in the settings of the DTM Toolbox. The printer is now ready for operation again!
4. Dispose of the used ink pad in accordance with legal and official regulations.



7.4.Cleaning

The label printer requires very little maintenance. Regular cleaning of the printhead is important. This guarantees a consistently good print image and plays a major role in preventing premature wear of the printhead. Otherwise, maintenance is limited to monthly cleaning of the device.



Danger!

Disconnect the printer from the power supply before carrying out any maintenance work.

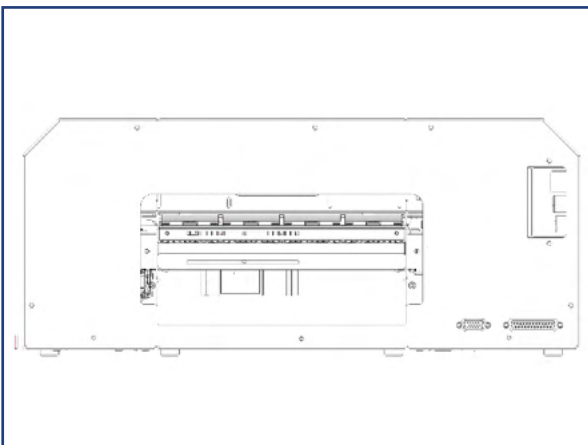
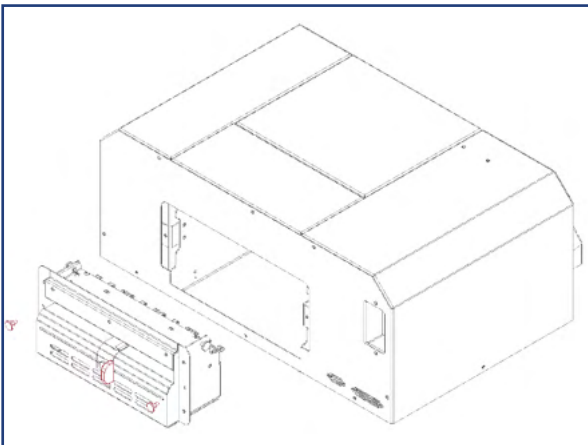
Attention!

- Damage to the printer due to harsh cleaning agents!
- Do not use abrasives or solvents to clean the outer surfaces or assemblies.
- Remove dust and paper lint in the printing area with a soft brush or vacuum cleaner.

7.5.Paper jam

If the printer is in a paper jam, you can easily remove the labels yourself. The printer is designed to allow you to access all printer components where a label can stick.

Printer back

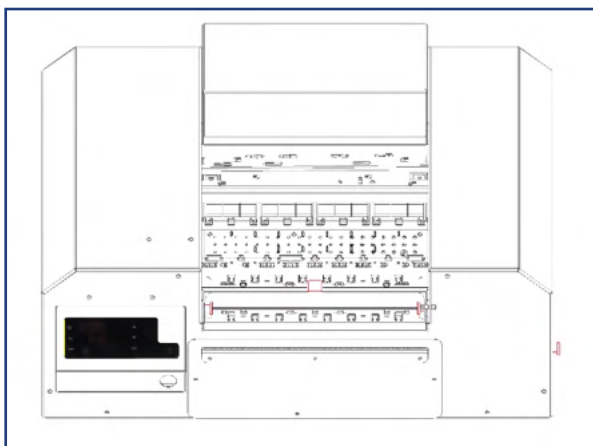


Unscrew both knurled screws on the left and right of the label guide unit.

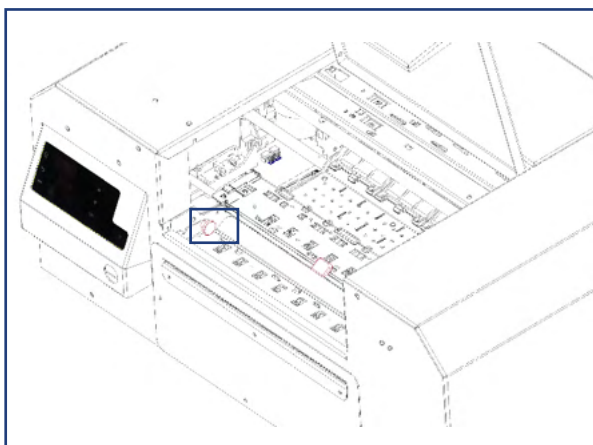
Pull out the complete guide unit.

Now you can remove any label remnants that have stuck.

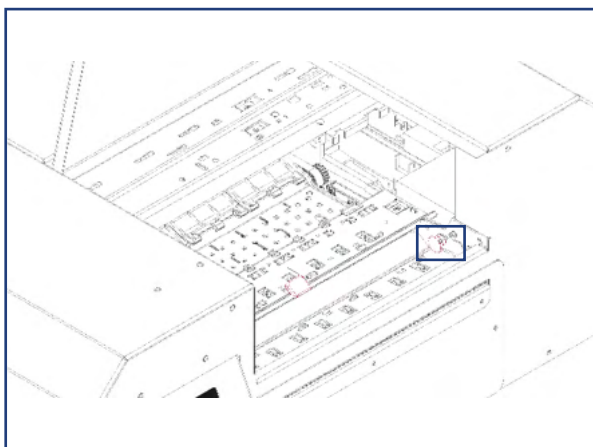
Printer front



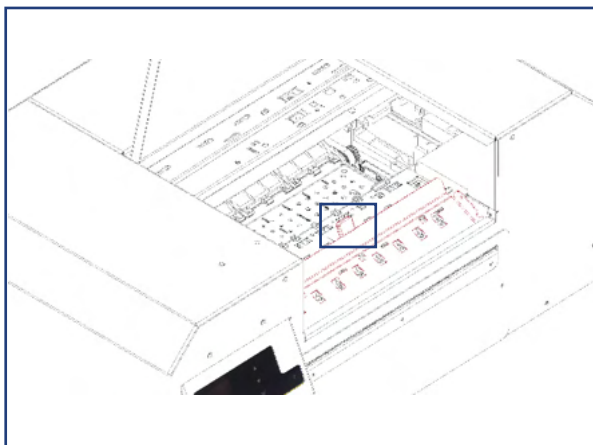
Open the housing cover.



Turn the left knurled screw open.



Turn the right knurled screw open.



Using the green tab, you can lift the paper guide and remove the stuck label.



7.6. Technical Support

If you have difficulties in operating your printer, the procedures in this manual and the software User's Guide should, in most cases, solve the problem. If you still have difficulty, contact the technical support using one of the methods listed below.

Source	Location/Hours
BarTender Software Help files	Open the software. Click on the Help Menu – Contents
Email Support	support@dtm-print.eu
Chat Support	dtm-print.eu – look for the chat prompt on lower right Monday – Thursday 9:00 to 17:00 and Friday 9:00 to 15:00
Online Support	support.dtm-print.eu fill out the online support form

8. Technical information

Printing method	Thermal inkjet printing
Print speed	Up to 13.2 cm/s (5.2"/s)
Print quality	600 x 1200 dpi native; up to 1200 x 2400 dpi
Print width	20 mm – 210 mm (0.78" – 8.25")
Media width	30 mm – 212 mm (1.18" – 8.375")
Print length	Max. 121.92 cm
Ink	Water-based, solvent-free special ink (CMYK): K (Dye / Pigment / Premium Pigment) - 78ml CMY (Dye / Pigment) - 26ml
Printhead	Replaceable, Unfilled (Empty)
Label feeding / recognition	Sensor-monitored label feed with automatic feed (Auto-Feed) and label recognition (Auto-Teach)
Media sensing	Moveable see-through sensor for die-cut labels; reflective sensor for labels and tags with black mark (bottom); can use continuous and pre-printed labels and tags
Media types	Roll-fed pressure-sensitive labels, roll-fed tags, fan-fold labels or tags
Interfaces and network connection	USB 2.0 LAN (Ethernet) 24V PLC interface



Supported operating systems	Windows® 10, 8.1, 8, 7
External power supply	100 - 240 V alternating current Frequency: 50 - 60 Hz
Memory (RAM)	32 MB
Weight	approx. 15 kg
Dimension (W x H x D)	486 x 207 x 330 mm
Service	Warranty: 36 months (after product registration, for devices purchased in EU/EFTA countries and UK) DTM Express Repair, DTM Exchange Warranty, DTM Hot-Swap (for more information and pricing on DTM Print Warranty Solutions visit: https://dtm-print.eu/en/pages/warranty/)

