

Description

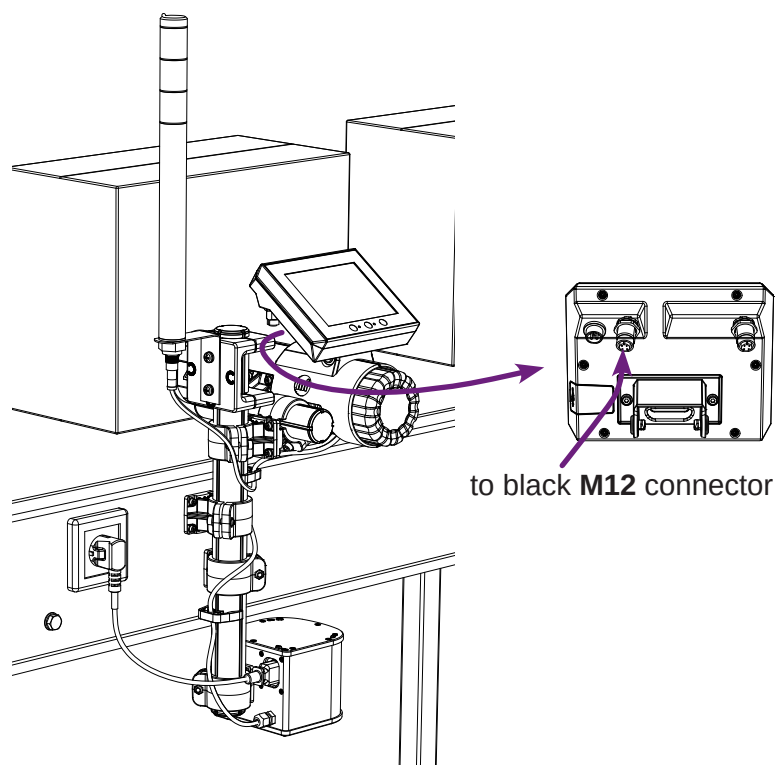
■ Installing accessories

■ Status beacon

The 4500 printer can be optionally equipped with a status beacon. The following types of beacons are available:

- **RYG** (Red, Yellow, Green)
- **BYG** (Blue, Yellow, Green)

After installing the beacon, connect it to the black **M12** connector at the back of the control unit. See the “External connections” section of this manual for descriptions of the connectors.



The beacon operates properly immediately after it has been connected to the printer and it requires no additional setup.

Interface

Interface

The user interface consists of a control unit with an interactive touch screen and function buttons below the screen for performing basic operations regardless of the current screen displayed. This allows for easy and intuitive operation.

■ Preview of the main screen

The main screen is used to:

- check printing progress
- view the printer status
- monitor the ink level
- monitor warning and fault signals
- view the currently selected job
- access various menus



Auditory signaling can be enabled so that the touch screen will beep when pressed. Beeping can be enabled or disabled by pressing:



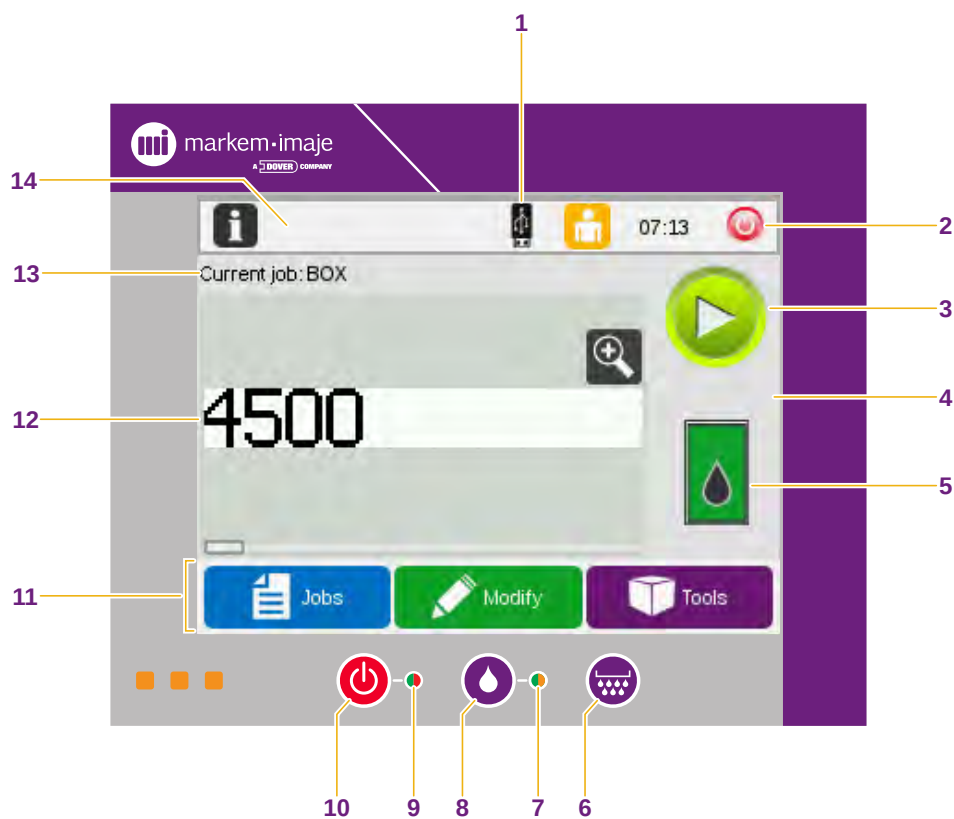
Touch screen beeping on/off

Function buttons are used to:

- start up and shut down the printer
- start and pause printing
- start purging

Status LEDs provide visual indicators of:

- the printer status
- the printing status
- warnings and faults



1	USB access indicator	8	Start/pause printing function button
2	Shut down the printer	9	Printer status LED
3	Start/pause printing	10	Start up/Shut down printer function button
4	Printing status; colored background	11	Menu bar
5	Ink level indicator	12	Preview the currently selected job
6	Start purging function button	13	Name of the currently selected job
7	Printing status LED	14	Printer information bar; colored background

Interface

■ Using the user interface

■ Main screen

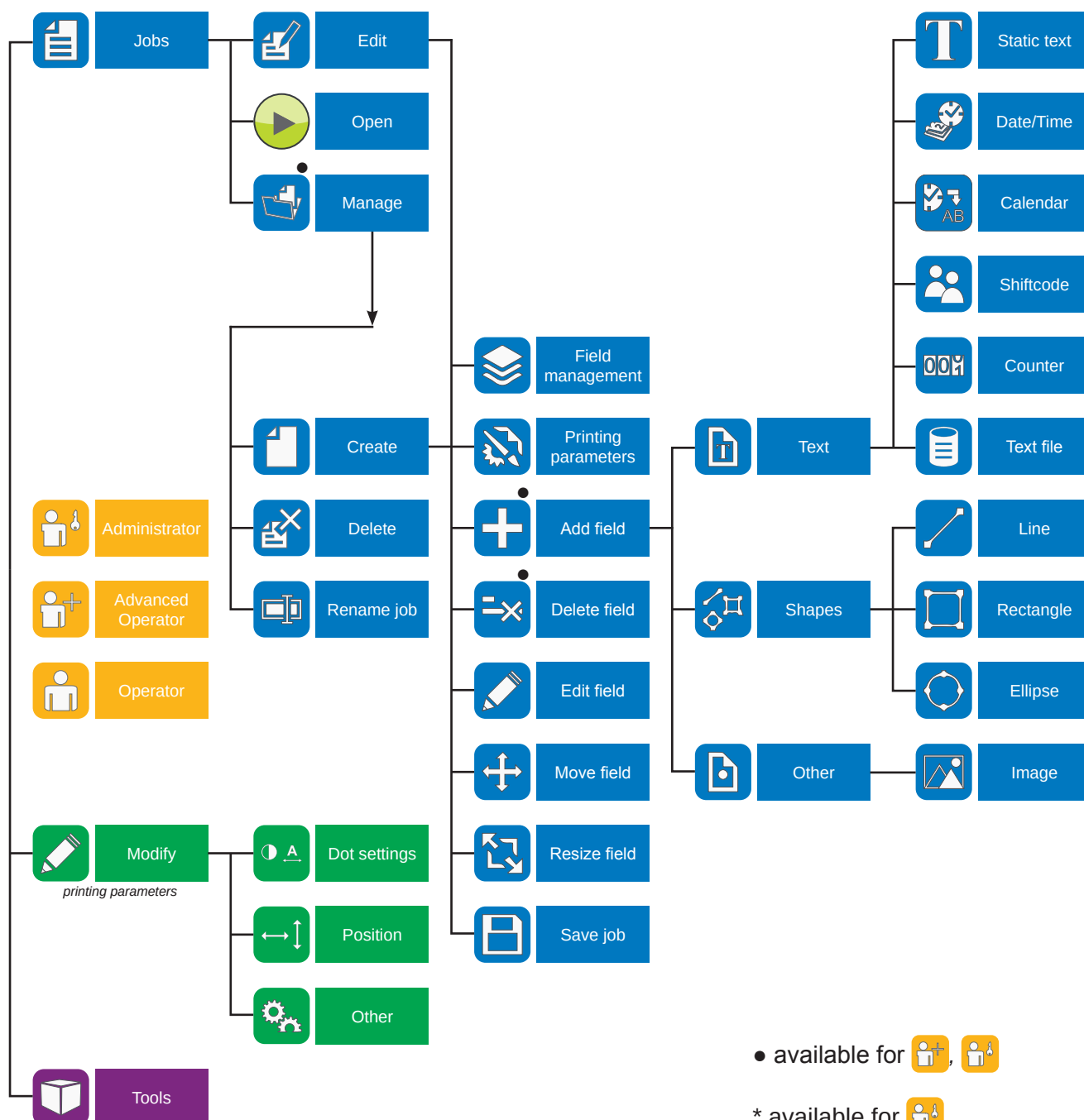
The main screen is used to access three major printer functions:

- basic operation and printing (1)
- creating, selecting, editing, and managing jobs; editing job and printing parameters (2)
- tools for printer settings, maintenance, and service (3)



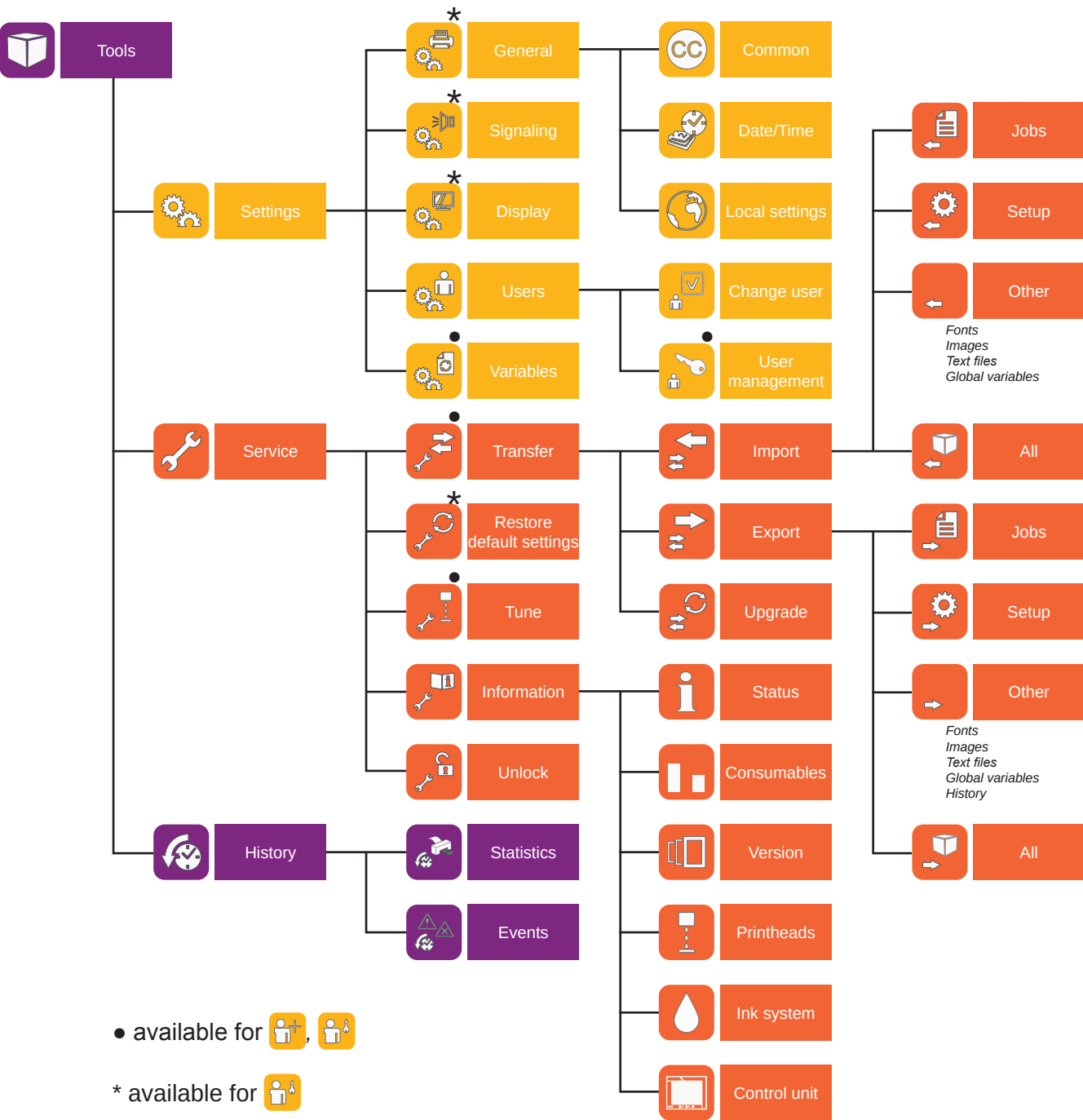
■ Menu tree structure

■ Selecting, editing, and managing jobs; editing printing parameters



Interface

■ Tools for printer settings, maintenance, and service



Navigation

The buttons, icons and windows used for operating the interface and navigating the menus are as follow.

Printing Status Legend:

- Printing cannot start.
- Printing is paused. Press to start printing the current job.
- Printing has started. Press to pause printing.
- Press to pause or start printing, depending on the printing state.

Scrolling job list:

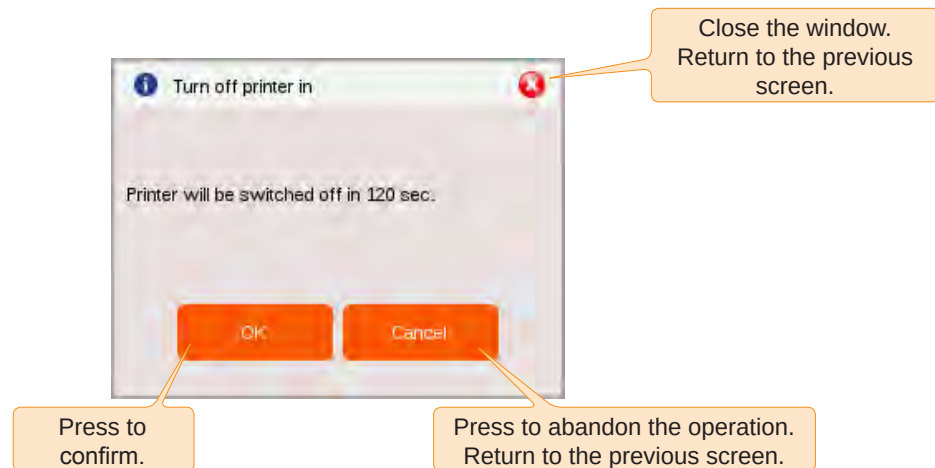
Diagram showing two methods for scrolling the job list: using a touch screen (represented by a hand icon) or a mouse (represented by a mouse cursor icon).

Interface

■ Communication

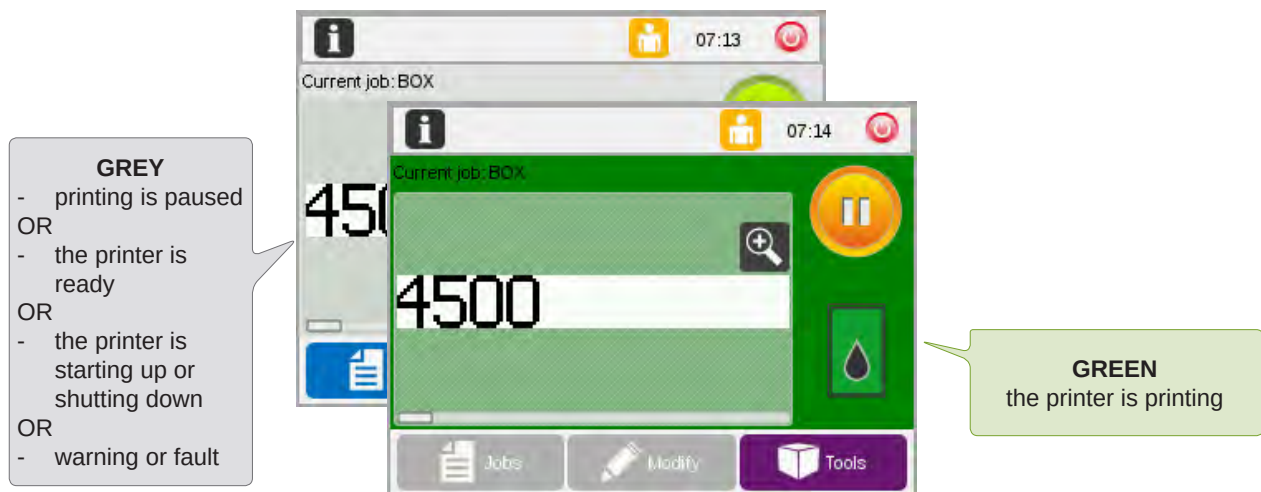
■ Dialog boxes

Dialog boxes appear on the screen to report information to the user or to request confirmation from the user (shown in the example below).



■ Printer status

The background color of the main screen indicates the current status of the printer and changes when the status changes.



An optional external status beacon with colored lights can also be used to monitor printer status.

The table below summarizes the printer status and the corresponding background color.

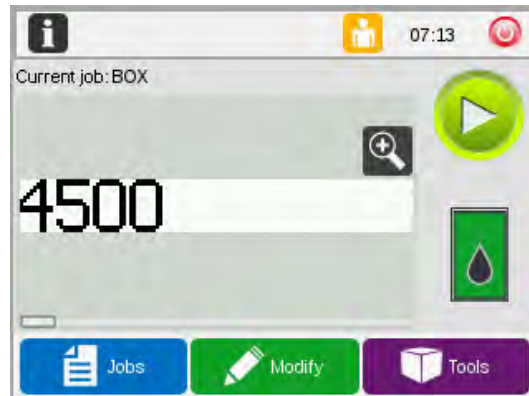
PRINTER STATUS	COLOR
 The printer is in the process of being started or shut down	Grey
 Warning or fault	Grey
 Printing is paused The printer is ready	Grey
   The printer is printing	Green

Interface

■ Information Bar

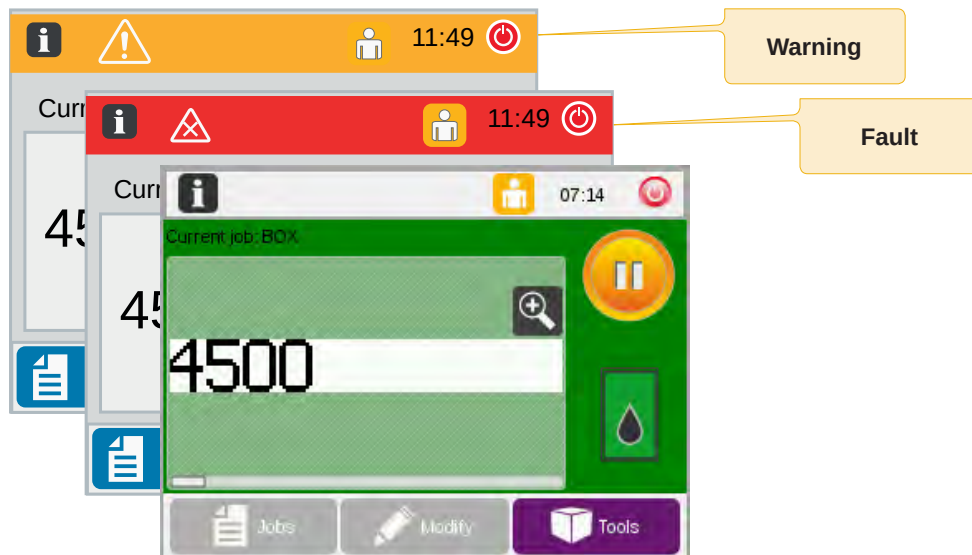
The information bar displays information about printer operation.

Press  on the information bar to display detailed information.



Detailed printer information can also be found on the  menu by pressing:  ►  ► 

The background color of the information bar changes to give a visual signal when warnings and faults are present.



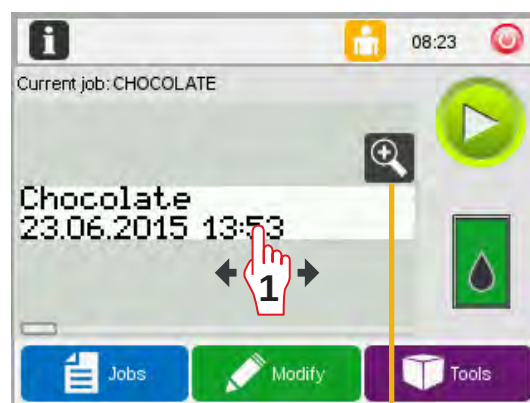
Press  to display a list of active warnings.

Press  to display a list of active faults.

■ Job preview

The main screen displays a print preview of the current job. The default preview size of the current job is twice (200%) the actual size of the printed job.

If the width of the job exceeds the width of the preview window, the image can be moved horizontally within the preview window (1) to view the remainder of the job image.



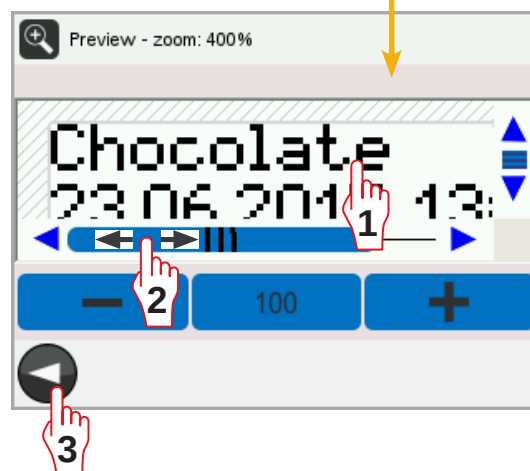
The magnifying tool  is used to open a window in which the size of the print preview can be enlarged or reduced.

Press  to increase the size of the print preview up the entire height of the preview window.

Press  to decrease the size of the print preview.

Press  to preview the actual size of the printed image.

The minimum size is 100%, which corresponds to the actual size of the printed image.
The maximum size depends on the height of the image.



If the job preview is too large for the entire image to fit in the preview window, the remainder of the image can be viewed by dragging the image (1). The image can also be moved horizontally using the scroll bar (2) to view the remainder of the image.

Press  (3) to exit the job preview window.

Interface

■ Using function buttons

Function buttons below the screen are available for performing basic operations regardless of the current screen displayed. The LED indicators next to the function buttons will change to provide a visual indication of the printer status.

Function button	What the Function Button Does	Status LED	What the Status LED Indicates
	Starts up and shuts down printer. Indicates the printer status. Indicates warnings and faults.		Off. The printer is not connected to the electrical mains.
			Solid green. The printer is connected to the electrical mains and it is started; there are no faults or warnings.
			Blinking red. A warning during printer operation. OR The printer is in the process of being started (the startup screen is displayed) or shut down (the goodbye screen is displayed).
			Solid red. A fault during printer operation. OR The printer is connected to the electrical mains but it is not ready for printing (the screen is blank); it is in standby mode.

Function button	What the Function Button Does	Status LED	What the Status LED Indicates
	Starts and pauses printing. Indicates the printing state.		Off. Printing cannot start.
			Blinking green. Working parameters of the printer are being set, printing cannot start. OR A valid job has not been selected for printing.
			Solid green. The printer is ready for printing; a valid job has been selected for printing.
			Solid orange. Printing.
	Starts purging the nozzle plate and continues until the purge button is released. The function can be used when the printer is not in printing state, i.e. the LED next to the  button does not illuminate orange.		

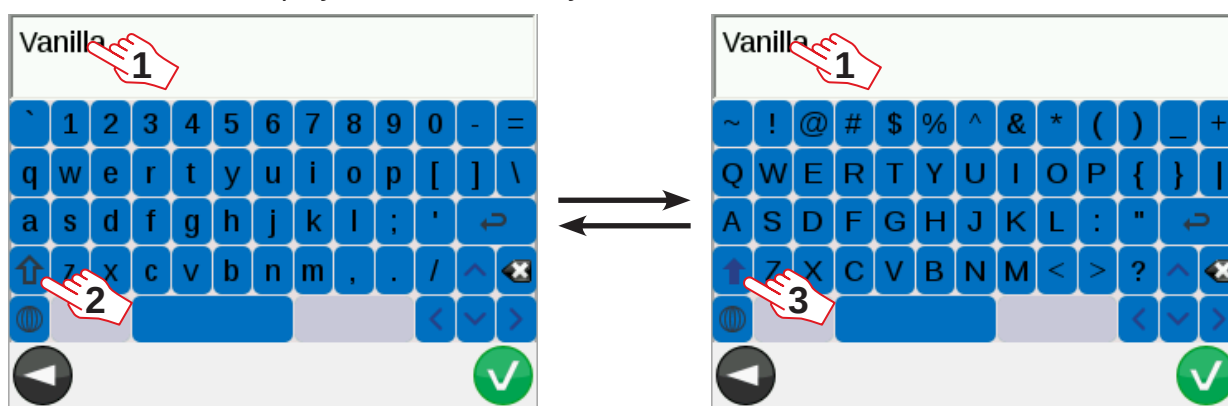
Interface

■ Using the virtual keyboard

Text characters are input on screen via a virtual keyboard. Characters include uppercase and lowercase characters, international characters, digits, symbols, and special characters.

Pressing a key will do one of the following:

- Select a character and place it at the insertion point (1) in the text box above the virtual keyboard
- Navigate around the text box
- Display another virtual keyboard



Press  (2) to display a keyboard with uppercase characters, special characters, and symbols.

Press  (3) to display a keyboard with lowercase characters, digits, and symbols.

Press and hold down a selected Latin character (e.g. e, r, t, y, u, i, o, a, s, d, g, l, z, c, n) to get access to the list of diacritical characters that are linked with that selected Latin character.

Press  to change the language of the keyboard.



After the language has been changed, national characters of the selected language will appear on the keys in place of Latin characters.

For certain languages the  key appears on the keyboard to enable the user to select alternative sets of characters or to return to the set of Latin characters.

Several languages are available, for example:

- Arabic
- Bengali
- Bulgarian
- Chinese (pinyin)
- Hindu (Dewanagari)
- Greek
- Hebrew
- Japanese (Hiragana, Katakana, Kana)
- Korean
- Latin (AZERTY, QWERTY, QWERTZ)
- Russian
- Serbian
- Thai (Kedmanee, Pattachote)
- Ukrainian

Press  to close the keyboard without making any text changes.

Press  to accept the text in the text box and close the keyboard.



The appearance of the virtual keyboard can differ from what is shown above and depends on the screen from which it was opened.

Operation

Operation

■ Starting up the printer

1. Connect the printer to the electrical mains.
The printer goes into standby mode.
The LED next to the  button illuminates solid red.
The screen is blank.
2. Press the  button.
The startup screen is displayed.
The LED next to the  button illuminates blinking red.
3. Wait about 30 seconds.
The main screen is displayed; the printer is started but not ready for printing.
The LED next to the  button illuminates solid green.
The LED next to the  button illuminates blinking green.
4. Wait about 15 seconds.
The printer is started and ready for printing.
The LED next to the  button illuminates solid green.
The currently selected job is ready for printing.
The **Operator**-type user  with the username of "Operator" is activated by default.



To change the user:

Press  ►  ►  ► 

OR press the user icon on the information bar.



The printer can be configured so that the selected job automatically begins printing at printer startup by pressing:

 ►  ►  ►  ► **Printing starts automatically**

If automatic printing at startup is not enabled, press the  button to manually start printing the selected job.



If no job is selected at printer startup, a message is displayed.

■ Shutting down the printer

■ Shutting down in regular mode

The printer can be shut down in the printing, ready, or paused state. If  is pressed when printing is in progress, printing is paused.

1. Press  on the information bar or below the screen.

A dialog box will ask for confirmation to shut down.

Press  to confirm.



If the operator does not respond, the printer will start shutting down in 120 seconds. A timer will display the countdown in the dialog box.

If the operator presses the  icon, shutdown will stop and the printer will return to its previous state.

The goodbye screen is displayed.

The LED next to the  button illuminates blinking red.

The LED next to the  button goes off.

2. Wait about 5 seconds.

The printer goes into standby mode.

The LED next to the  button illuminates solid red.

The screen is blank.

3. Disconnect the power cable from the electrical mains, if needed.



Shutdown must be complete before disconnecting the power cable from the electrical mains.

■ Shutting down in emergency shutdown mode

There are two ways to shut down the printer in an emergency situation.

To shut down the printer immediately, disconnect the power cable from the electrical mains.

To shut down the printer quickly, press and hold the  button for 4 seconds. Disconnect the power cable from the electrical mains, if needed.



Using this mode to shut down the printer is not recommended during normal printer operation as it will result in loss of counter settings and unsaved changes, and possible damage to data.

Operation

■ Printing

The printer is ready for printing only when:

- a valid job has been selected
- the LED next to the  button illuminates solid green
- the green start  icon appears on the main screen

■ Selecting a job to print

1. From the main screen, press .

The list of the jobs available is displayed on the screen.

The  sign is displayed next to the name of the job currently selected for printing.



If a filter is set, the job list displays only those jobs whose names match the filter setting.

2. Select from the list the desired job to print.

The job currently selected is highlighted in blue and its preview is displayed in the text box in the upper part of the window.



An additional message is displayed when you send a job containing a field (fields) highlighted in yellow to print.

No job containing a field (fields) highlighted in red can be sent to print.

For more information on the colors that fields can be given in a job see the section entitled "Editing".

3. Press .

The selected job is sent for printing.

The main screen is displayed showing the selected job in the preview window.

■ Starting printing

1. Press  on the main screen or the  button.

If the job to be printed contains variable fields whose contents need updating then an additional screen is displayed before printing starts.



If any of the fields in the job exceed the working area of that job, then an additional dialog box is displayed before printing starts.

If any job field has the attribute "Edit before printing" attached to it, then the request to make initial settings is displayed before printing starts.

The printer goes into print mode and waits for a signal from the photocell.

The background color of the display changes from grey to green.

The LED next to the  button changes from solid green to solid orange.

The  icon is replaced by the  icon.

The currently selected job starts printing.

■ Pausing printing

1. Press  on the main screen or the  button.

The printer goes into ready mode and pauses printing.

The background color of the display changes from green to grey.

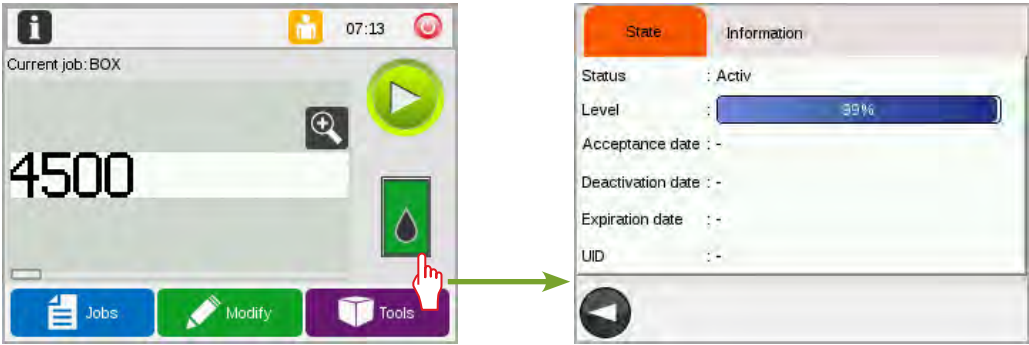
The LED next to the  button changes from solid orange to solid green.

The  icon is replaced by the  icon.

Operation

■ Ink bottle usage

The color-coded ink indicator on the main screen provides a visual estimate of the ink remaining in the bottle. For details on ink bottle status, press the ink indicator.



The time needed to use the ink contained in the bottle depends on the number of dots in the jobs printed and on job parameters such as ink intensity or ink pressure.

COLOR	INDICATOR	INFORMATION/ACTION
Green		Ink level OK. Do not replace ink bottle.
Orange		Ink level low. A warning is displayed. Printing continues. Ink bottle replacement recommended.
Red		Ink level critically low or empty. A fault is displayed. Printing not possible. Ink bottle replacement necessary.
Red		A fault connected with the Advanced Consumable Management (ACM) system. A fault is displayed. Printing not possible. Ink bottle replacement necessary.



If the ink level is low, an additional message is displayed in a dialog box.

The low-ink dialog box is always displayed after printer startup.