

■ Replacing the ink bottle



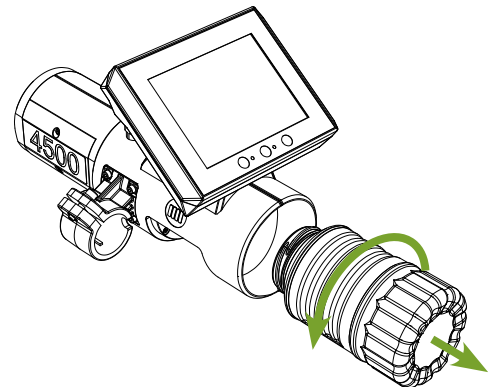
Do not replace the ink bottle until a low ink or fault message is displayed.

If an ink level fault occurs, printing automatically pauses.

1. If the printer is printing, press  on the main screen or the  button to pause printing.
2. Unscrew the empty ink bottle and remove it.



Unscrewing the ink bottle may result in additional messages.



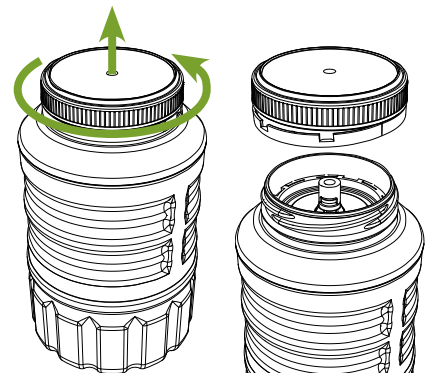
3. Read the ink data from the label of the empty bottle to select an appropriate replacement ink.
4. Unscrew the cap of a new ink bottle, which breaks the security seal.



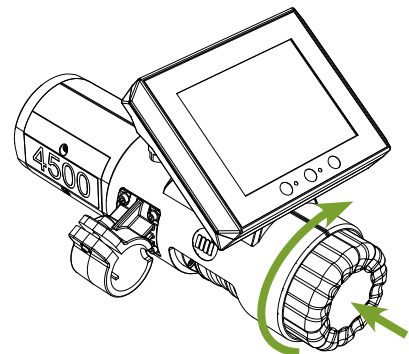
OK



Ink bottles with 0.5 liter and 1.0 liter capacity can be used interchangeably provided that they contain the same type of ink.



5. Screw in the new ink bottle to install it.
6. Press  on the main screen or the  button to resume printing.



Editing

Editing

This printer interface was designed to ensure that jobs can be edited quickly and easily. Jobs can consist of various types of fields, such as static text, time, dates, counters, shiftcodes, shapes, imported images, and imported text files.

■ User management

The user management feature allows configuration of various access levels for job editing and printer settings for various users.

The printer has three types of users, each represented with a unique icon. The information bar on the main screen displays an icon of the current user type.



Operator

Operator-type users have the following privileges:

- select a job for printing
- start and pause printing
- edit the contents of enabled fields
- edit some printing parameters
- access to some menu options

Operator-type user accounts are not protected with a password by default. All **Operator**-type user accounts can be password-protected, except for the primary **Operator**-type account, called “Operator”, which is logged on automatically at printer startup and is not password protected.

Additional **Operator**-type user accounts can be defined with customized user names and passwords.

All **Operator**-type user accounts can be deleted except for the primary **Operator**.



Advanced Operator

Advanced Operator-type users have all the privileges of **Operator**-type users and the following additional privileges:

- create and delete jobs
- rename a job
- edit fields in a job (except for global variables)
- enable and disable fields for access by **Operator**-type users
- add and delete fields
- Importing/exporting data to/from the printer

- tune electromagnets
- edit all printing parameters
- view global variables
- create, edit, and delete the accounts of **Operator**-type and **Advanced Operator**-type users

Advanced Operator-type user accounts are password protected.

Additional **Advanced Operator**-type user accounts can be defined with customized user names and passwords.

All **Advanced Operator**-type user accounts can be deleted.



Administrator

Administrator-type users have all the privileges of **Advanced Operator**-type users, and the following additional privileges:

- create, edit and delete global variables
- full access to all menu options
- clear print counters
- create, edit, and delete the accounts of **Administrator**-type, **Advanced Operator**-type, and **Operator**-type users

Administrator-type user accounts are password protected.

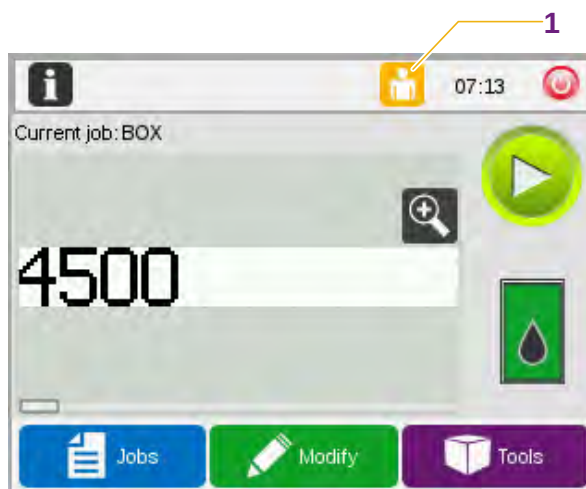
Additional **Administrator**-type user accounts can be defined with customized user names and passwords.

All **Administrator**-type user accounts except for one can be deleted. At least one **Administrator**-type user account must be defined.

Editing

■ Changing users

The current user type is displayed on an icon (1) on the information bar on the main screen.



The user can be changed in two ways:

Press the user icon (1) on the information bar

OR press  ►  ►  ► .

The list of defined users is displayed on the screen. The  icon is displayed next to the name of the current user.

1. Select a different user.



The  icon displayed next to a user name means that the user has been deactivated because an incorrect user password was entered three times. Such a user can be activated by a user whose access level is the same or higher. The user activating procedure is described in the section entitled, "Configuration/Transfer."

2. Enter the user password.

The default password to activate an **Advanced Operator**-type user  account is "0000".



The default password to activate an **Administrator**-type user  account is "4500-admin".

Passwords can be modified by means of  ►  ►  ► .

Passwords are not required for access to **Operator**-type user  accounts.



If an incorrect password is entered three times, the user account is deactivated.

3. Press  to confirm.

The selected user is now the current user.

■ Importing/exporting the user database

The user database defined in printer memory can be saved on a USB memory device and then imported to the same or another printer.

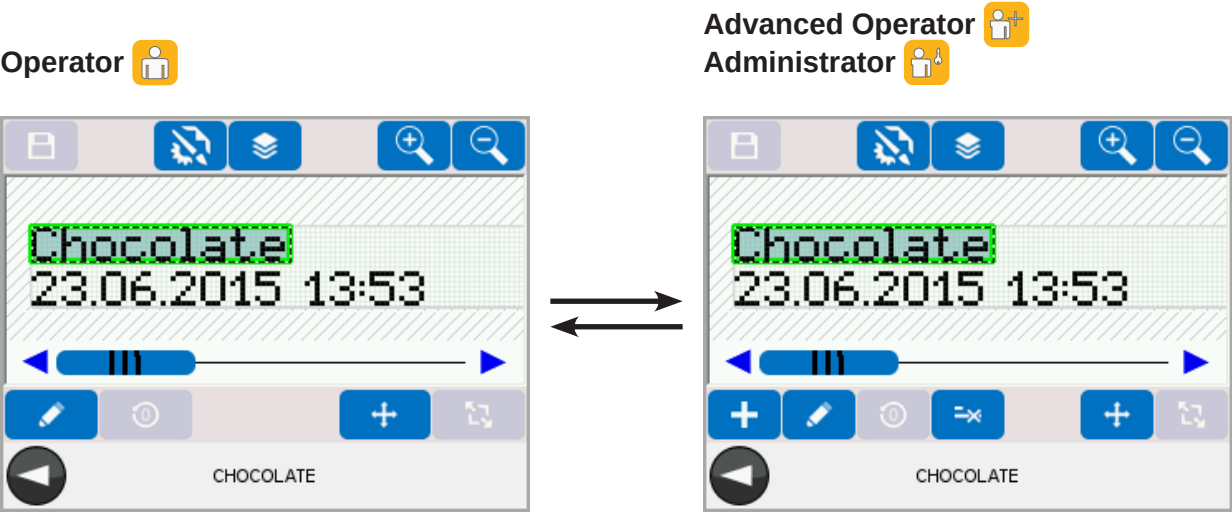


For more details see the section entitled "Importing/exporting data".

Editing

Job editor

The appearance of the job editor window depends on the current user type.

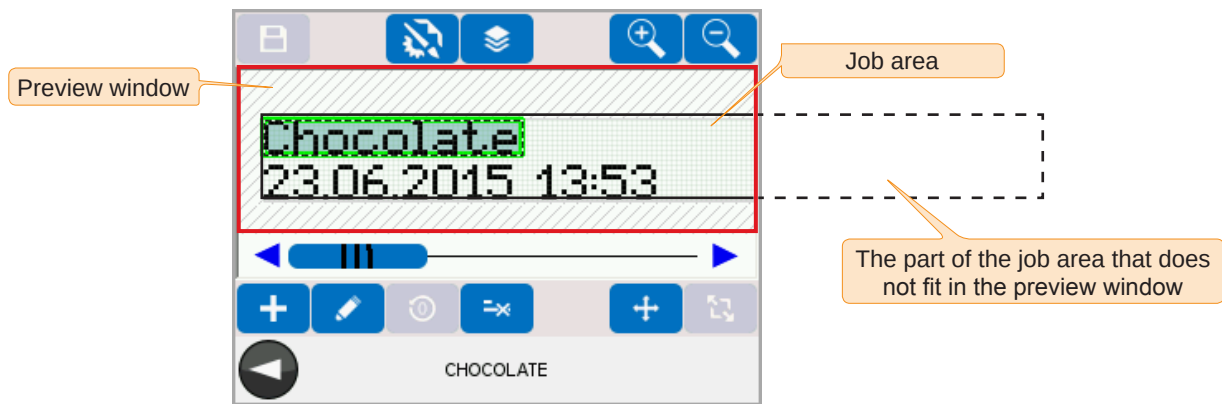


Operator-type users  can edit enabled fields only, which are highlighted in blue.

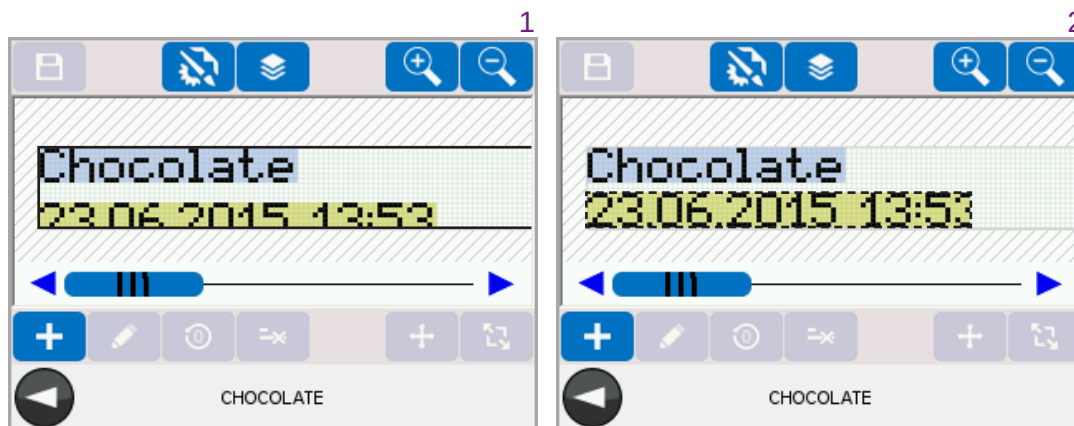


The name of the job that is being edited is displayed on the lower bar. After editing the job contents or printing parameters, the color of the name changes from black to red. Once the job has been saved with the  icon, the color of the job name changes back to black.

The job that is being edited is displayed in the preview window, and the job-area width may be greater than the width of the preview window. In such a case, the job can be shifted in the preview window in the horizontal direction to view the remainder of the job.



The fields located outside the working area of the job (1) or whose contents exceed the field frame (2) are highlighted in yellow.



The fault field, or the field containing a non-existent (deleted) global variable, text file or font, are highlighted in red.



The following functions are available in the job editor:

-  edit field contents and parameters
-  change the field position in the job
-  change the field size
-  manage fields by means of the field manager
-  reset a **Counter** or a **Text file** fields
-  increase/decrease the job preview size
-  add a field



This function is available to **Advanced Operator**-type  or **Administrator**-type users .

Editing

 delete a field



This function is available to **Advanced Operator-type**  or **Administrator-type** users .



edit the width of the working area of the job and select a unit to be used for measuring the working-area width; to edit printing parameters of the job being edited



Operator-type users  can edit only selected printing parameters.



save the job with the current job name or with a new name



The save function is available only when modifications have been made to the job or printing parameters.



exit the job editor

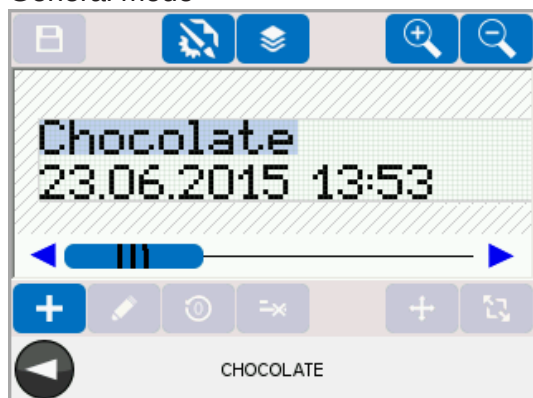


save the job with the current job name and then exit the job editor

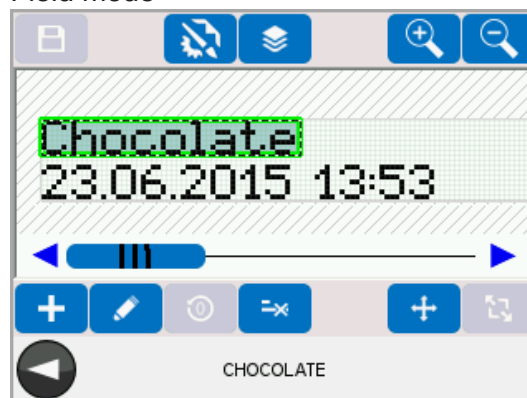
Job editor modes

The editor window can operate in two different modes:

General mode

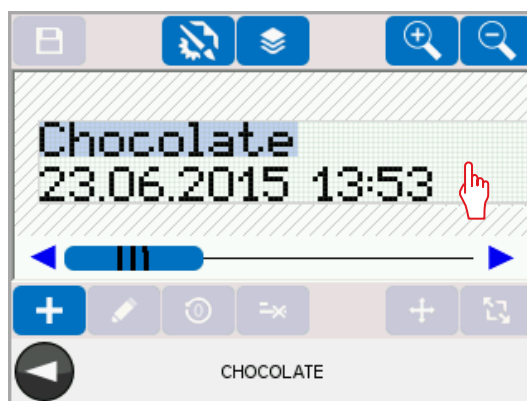


Field mode



■ General mode

This is the default mode of the job editor and it is used when no field in the job is highlighted.

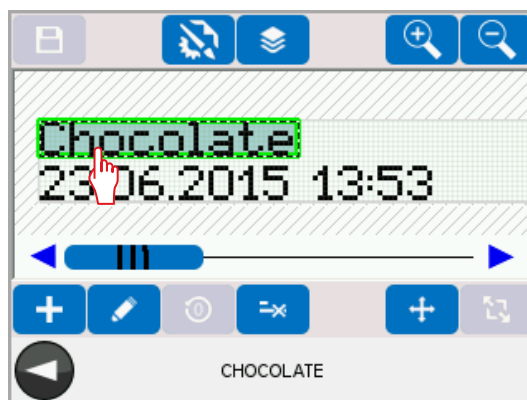


Select any field to change the job editor to field mode.

■ Field mode

To return (or change back) to general mode press any place outside the field area in the preview window.

The selected field is framed in green.



Advanced Operator-type  or **Administrator-type** users  can select and edit any field of the job.

Operator-type users  can select and view any field in the job but they can edit enabled fields  only, which are highlighted in blue.

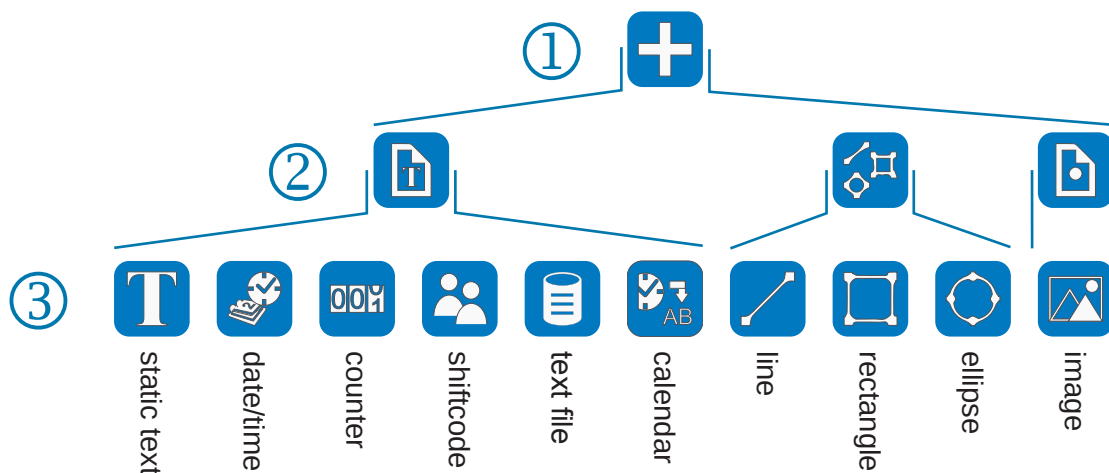
Editing

■ Adding a field



This function is not available to **Operator**-type users .

1. Press .
2. Select the group to which the field type required belongs:
 -  text fields
 -  shapes
 -  other (**Image**)
3. Select the field type.



4. Set the parameters that apply to fields of a given type.
5. Decide whether field editing is to be disabled  or enabled  for Operator-type users .

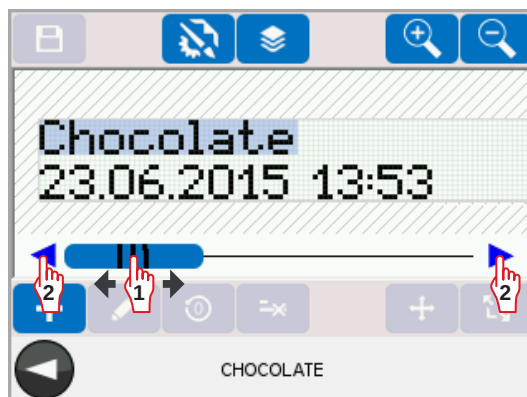


New fields are disabled  by default.

6. Show the field position in the job area.

For more information on how to add a field of a given type refer to the corresponding sections.

■ Moving the job in the preview window



If the job width exceeds the width of the preview window of the editor window, the job can be moved horizontally within the window to view the remainder of the job.

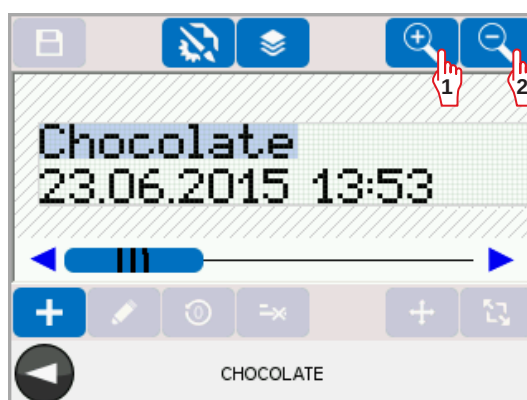
The job can be moved in the preview window in two ways:

- by dragging the scroll bar under the editor window (1)
- by using the arrows under the editor window (2)



The  icon can be used to change the width of the working area of a job and the units in which the width is measured.

■ Changing the preview size



The size of the job displayed in the editor window can be increased  (1) to 400% or decreased  (2) to 25% of its original size.

Editing

■ Field manager

1. Press .



The field manager facilitates field management by providing a list of all fields used in the job, including fields that are not visible in the editor window. Fields are not visible because:

- their position in the job exceeds the area of the preview window
- they are hidden by a field whose transparency is not set

The following field operations can be performed with the field manager:

 /  move a field in the list; by changing the position of a field in the list you can arrange the fields, that is you can define which field is on top of another and which is under another



*This function is available to **Advanced Operator**-type  or **Administrator**-type  users.*



edit field contents and parameters



***Operator**-type users  can edit enabled fields  only.*



delete a field from the job

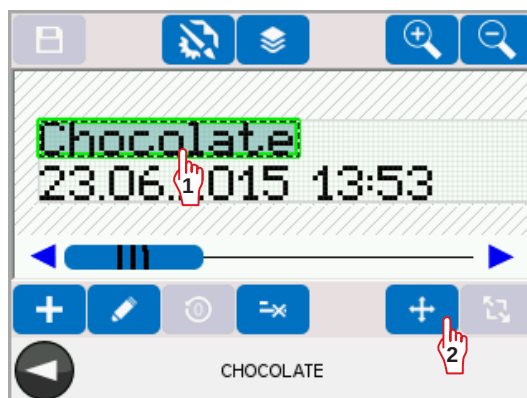


*This function is available to **Advanced Operator**-type  or **Administrator**-type  users.*

□ Modifying the field position in a job



Operator-type users  can edit enabled fields only.



The position of a field in the job can be edited in three ways:

- rough modification
- precise modification
- the modification of field parameters

Rough modification:

1. Select the field (1) whose position you wish to modify.
2. Press  (2).

The navigation icons appear on the screen.

3. Show a new field position in the editor window.

A transparent preview of the field in its new position appears on the screen.



The position of a field can be edited only within the job area. No field can be moved outside the job area.

4. Press  to confirm the new position of the field.

The editor window shows the field in its new position.

Editing

Precise modification:

1. Select the field (1) whose position you wish to modify.

2. Press  (2).

The navigation icons appear on the screen.

3. Use the navigation icons:



to move the field one pixel to the left



to move the field one pixel to the right



to move the field one pixel upwards



to move the field one pixel downwards



The position of a field can be modified only within the job area. No field can be moved outside the job area.

4. Press  to confirm the new position of the field.

The editor window shows the field in its new position.

For **precise modification** of the position of a field you can also modify the **X**, **Y** settings in the field parameters, with **X**, **Y** being the coordinates of the left upper corner of the field frame.



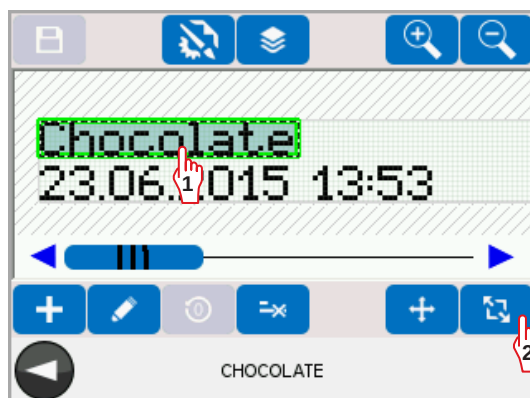
*When a modification to the **X**, **Y** settings causes the field to extend partially outside the job area, the field is highlighted in yellow.*

The modification of field parameters is described in the corresponding section.

□ Modifying the field size



Operator-type users  can edit enabled fields only.



The size of a field in the job can be modified in three ways:

- rough modification
- precise modification
- the modification of field parameters



The size of the **Static text**, **Date/Time** and **Counter** fields can be modified only when the setting of the **Autosize** parameter differs from *Fit frame to content*.

The size of the field frame can be modified within the job area only and cannot extend outside the job area.

Rough modification:

1. Select the field (1) whose size you wish to modify.

2. Press  (2).

The navigation icons appear on the screen.

3. Show a new position of the right bottom corner of the field frame in the editor window.

A transparent preview of the field in the new size is displayed.

4. Press  to confirm the new size of the field.

The editor window shows the selected field in its new size.

Precise modification:

1. Select the field (1) whose size you wish to modify.

2. Press  (2).

The navigation icons appear on the screen.

3. Use the navigation icons:

 /  to move the top edge of the field frame one pixel up or down

 /  to move the bottom edge of the field frame one pixel up or down

 /  to move the left edge of the field frame one pixel to the left or right

 /  to move the right edge of the field frame one pixel to the left or right

4. Press  to confirm the new size of the field frame.

The editor window shows the selected field in its new size.

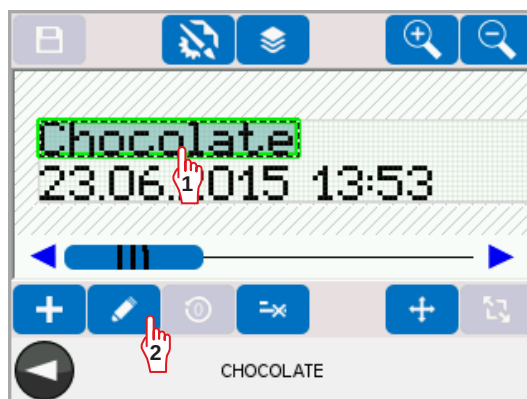
For **precise modification** of the size of the field frame you can also modify the **Width**, **Height** settings in the field parameters.

The modification of field parameters is described in the corresponding section.

□ Editing field contents and parameters



Operator-type users  can edit enabled fields only.



1. Select the field (1) that you wish to edit.

2. Press  (2).

A window is displayed so that you can edit field contents and parameters.
The appearance of that window depends on the type of field to be edited.



Field contents and parameters can also be edited with the field manager.

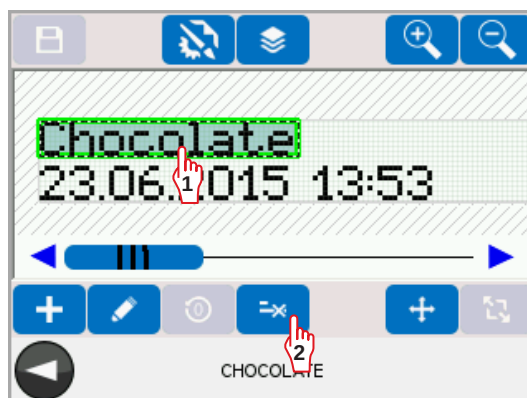
For more details on modification of a field of a given type refer to the corresponding sections.

Editing

□ Deleting a field



This function is not available to **Operator**-type users .



1. Select the field (1) that you wish to delete.
2. Press  (2).
3. Confirm that you wish to delete the field.



Fields can also be deleted with the field manager.

□ Common field parameters

The list of the parameters available depends on the type of field.

The following parameters are common to every type of field:

- **Field name**: a name assigned automatically while the field is being created, it can be edited and it must be unique within the job
- **X, Y**: the coordinates of the left top corner of the field frame; the settings can be entered or the position modification function of the editor can be used
- **Width, Height**: the size of the field frame; the settings can be entered or the size modification function of the editor can be used



The size of the **Static text**, **Date/Time** and **Counter** fields can be edited only when the setting of the **Autosize** parameter is different from **Fit frame to content**.

- **Autosize**: the method of adjusting the field frame size to the frame contents:

Fit frame to content

Fit content to frame

Without scaling



The list of the settings available for the **Autosize** parameter depends on other settings, e.g. the selected font.

The **Autosize** parameter is not available for Shapes fields.

- **Rotation [°]**: a field can be rotated by 90°



The **Rotation [°]** parameter is not available for Shapes fields.

- **Transparent**: when this option is enabled for a field, the field is transparent and the fields that are under it are visible



The sequence of fields in the job can be edited with the field manager, with the function being unavailable to **Operator**-type users .

❑ Disabling/enabling field editing

This function enables **Advanced Operator**-type  or **Administrator**-type users  to determine which of the fields can be edited by **Operator**-type users , excluding the option of editing the entire job.

Only enabled fields can be edited by **Operator**-type users .



The field is enabled, press to disable.



The field is disabled, press to enable.



New fields are disabled  by default.

Editing

■ Editing a job



This function is not available when the printer is in printing state.

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 a job that you wish to edit in the list displayed.

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

3. Press .



If the job currently selected for printing (with a  next to the name on the job list) is selected for editing, a confirmation prompt is displayed. When a job is being edited, it is not available for printing.

The selected job is opened in the editor, where fields can be edited, the field size and position can be modified, new fields can be created, etc.

■ Creating a job



*This function is not available to **Operator**-type users .*

This function is not available when the printer is in printing state.

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. Press   .

3. Enter a job name for the job being created.

A new (empty) job is opened in the job editor, where fields can be added and edited.



If the name of the job being created is the same as the name of an existing job, then after confirmation the new job replaces the existing one.

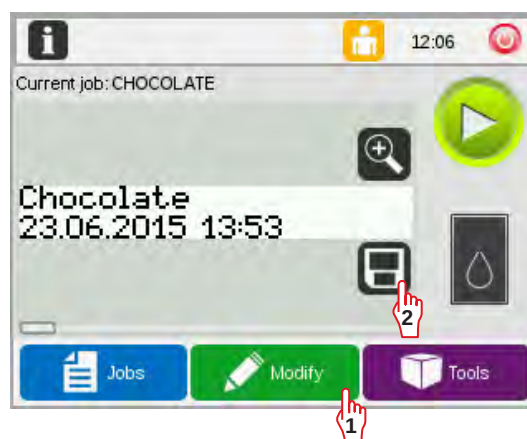
■ Modifying printing parameters



Operator-type users  can edit only selected printing parameters.

Printing parameters can be modified in two ways:

 (on the main screen): the parameters of the job **currently being printed** can be temporarily modified.



The  icon on the main screen is active only when a valid job is selected for printing.



After modifying (1) the parameters of the job currently being printed, the  icon (2) is displayed on the main screen, allowing the temporary parameters to be saved to the job.

OR

 (in the job editor window): the parameters of the job **currently being edited** can be modified.