

User Manual

4500



markem·imaje

a **DOVER** company

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Contents

General Information

General Information

■ Safety Instructions



WARNING: before using the printer, please carefully read the safety and installation instructions and the Safety Data Sheet (SDS) for the consumables used.

■ Introduction

Thank you for choosing a Markem-Imaje product to fulfill your marking and coding needs.

Because of its architecture, this printer can be used in many configurations. Its optimized design adapts to the user, offering user-friendly printing and easy maintenance.

■ About this manual

This user manual provides information about the Markem-Imaje 4500 printer.

The following symbols are used in the manual:



Indicates a tip or note.



Indicates important information about this printer.

■ Contact

If you have questions about this product, please contact your Markem-Imaje representative.

<http://www.markem-imaje.com>

Description

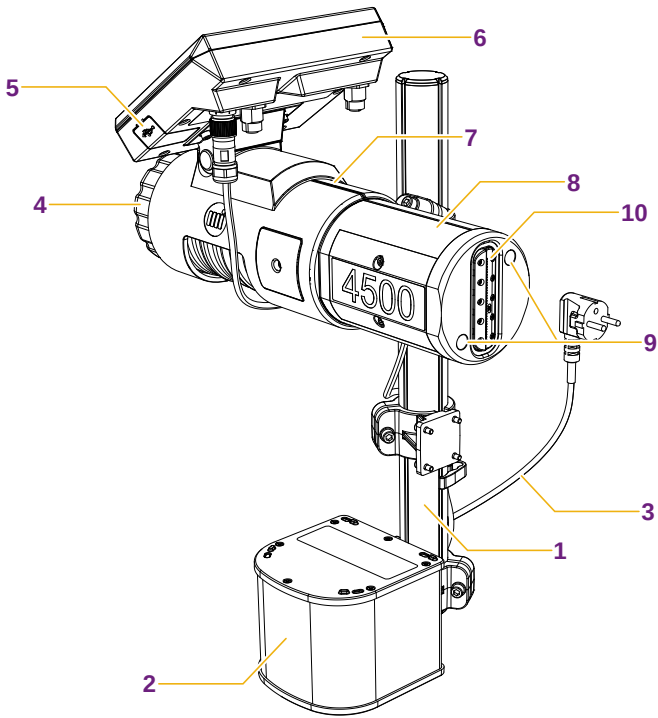
Description

■ Overview

This printer was designed to be user-friendly, providing the user with access only to those parts needed for daily use, which are easily accessible by simple actions.

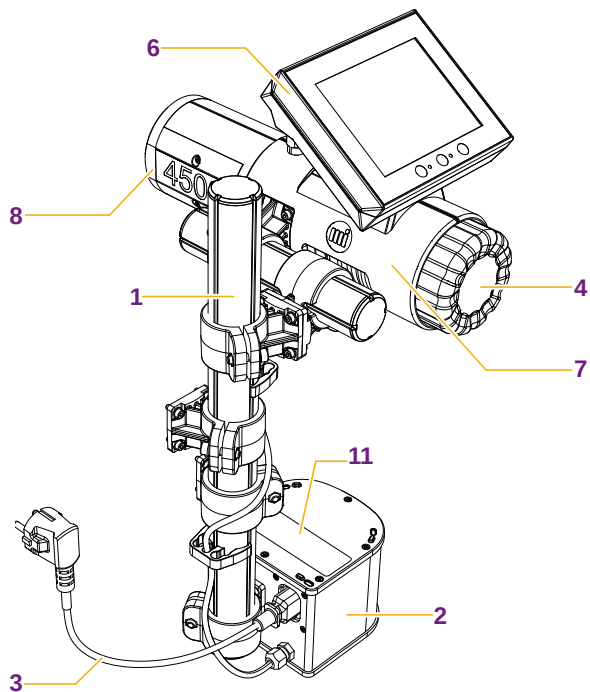
Parts limited to maintenance operations are protected and are accessible only by qualified persons who are appropriately trained.

■ Front view



1	Support beam	6	Control unit (display: 5.7"/144.8 mm diagonal)
2	Enclosed power supply	7	Printer body kit
3	Power cable	8	Printhead
4	Ink bottle (0.5 or 1.0 liter)	9	Photocells (Product sensors)
5	USB connector	10	Nozzle plate

■ Back view



1	Support beam	6	Control unit (display: 5.7"/144.8 mm diagonal)
2	Enclosed power supply	7	Printer body kit
3	Power cable	8	Printhead
4	Ink bottle (0.5 or 1.0 liter)	11	Manufacturer's plate

Description

■ Printer installation

Four versions of the 4500 printer are available:

- 7-nozzle printhead, character height - 13 mm (0.51 in)
- 7-nozzle printhead, character height - 24 mm (0.94 in)
- 16-nozzle printhead, character height - 29 mm (1.14 in)
- 16-nozzle printhead, character height - 56 mm (2.20 in)

The installation kit is the same for each printer, except for differences related to a specific printhead.

	Component part	Quantity
1	4500 printer including printhead, control unit, printer body kit, holder (1a), and a plugged hole (1b) for securing the holder on the other side of the printer	1
2	Enclosed power supply including printer cable (2a) and a holder (2b)	1
3	Support beam with two clamp holders (3a) and a 90° articulated holder (3b)	1
4	Printer stand	1
5	Ink bottle	2
6	Cable holder	2
7	Power cable, standard for the country of delivery	1
8	DVD including user documentation in electronic format (not shown)	1
9	Safety manual (not shown)	1



The installation kit also includes all indispensable screws, washers, nuts, etc.

The printer can be installed on a belt conveyor using the components included in the installation kit.

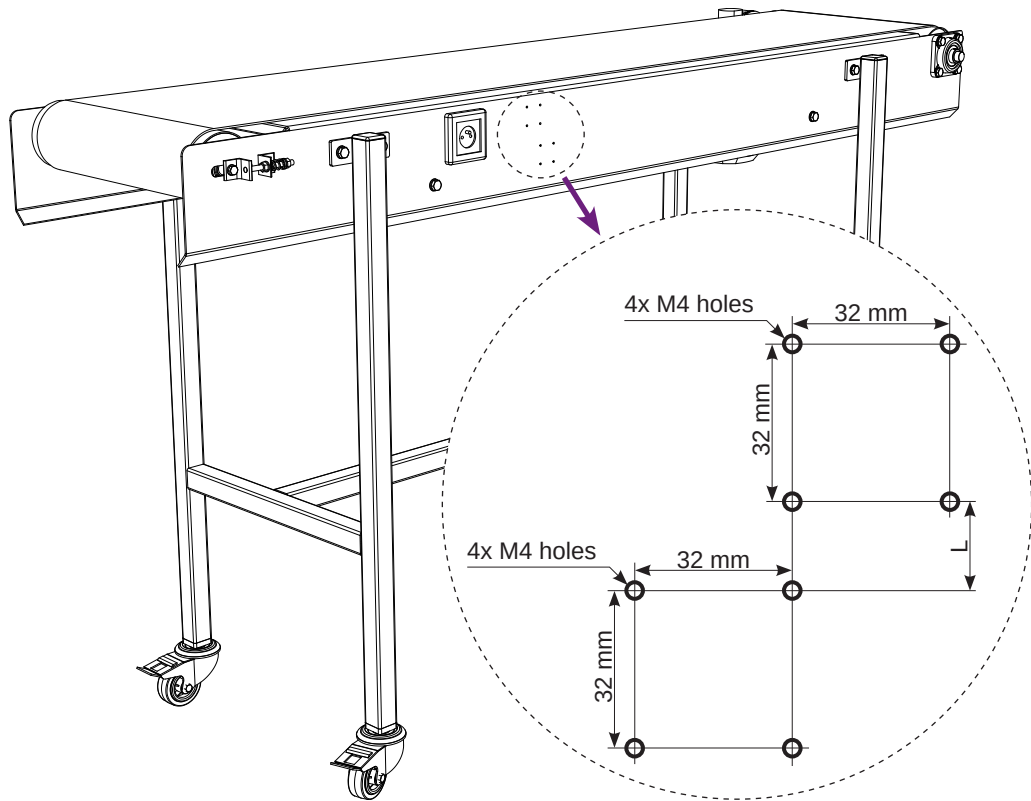


Tools required:

- a #5 angle hex (Allen) key
- a #3 hex (Allen) key with a ball tip
- a drilling machine

It is strongly recommended to install and use the printer/printhead as soon you receive it in order to secure print quality, printer performance and ensure recommended printhead preventive maintenance interval

1. Prepare appropriate mounting holes in the conveyor frame.



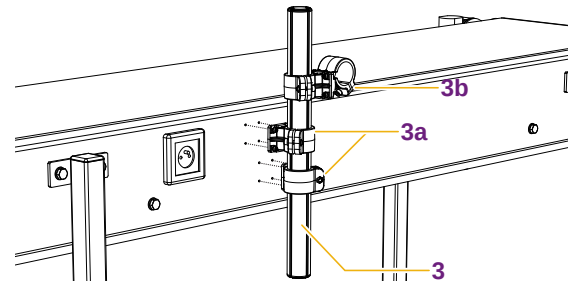
Distance L varies depending on the amount of free space available on the conveyor and on the required layout of printer components on the support beam.

The mounting holes can be tapped or nuts can be used.



The installation should be adjusted to the existing technical conditions to ensure that the printer is steadily fixed to the conveyor.

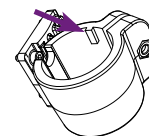
2. Fasten the support beam (3) together with the holders (3a, 3b) to the conveyor. Use the #3 ball tip hex key to tighten the fixing screws. The screws are part of the holders.



Description

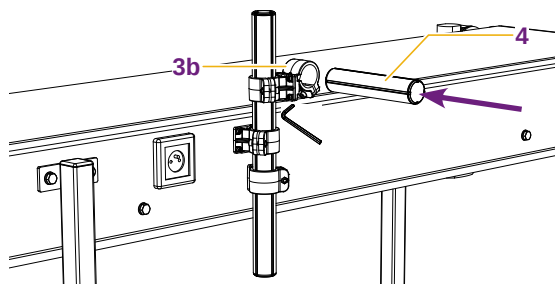


While following the procedure make sure that the holder fins (see the drawing on the right) are properly put into the vertical grooves on the support beam and printer stand.



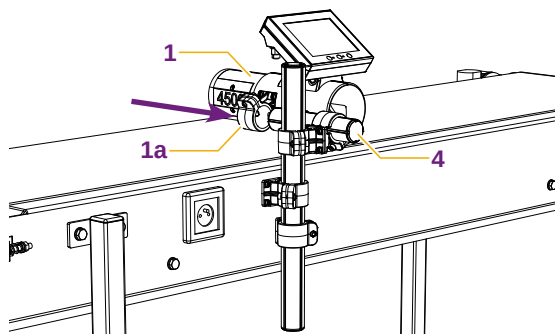
3. Insert the printer stand (4) into the articulated holder (3b).

Use the #5 angle hex key to tighten the screw on the articulated holder (3b), clamping the holder to the printer stand (4).



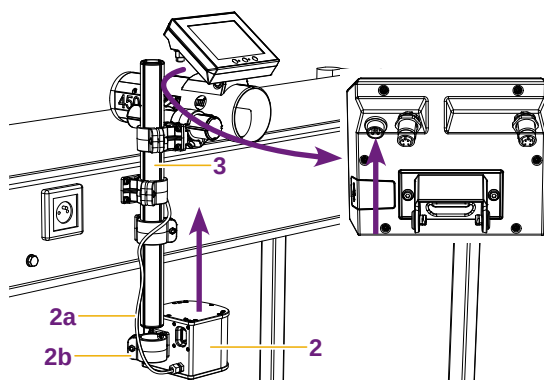
4. Fasten the printer (1) to the printer stand (4) by putting the holder (1a) onto the stand.

Use the #5 angle hex key to tighten the screw on the printer holder (1a), clamping the holder to the printer stand (4).



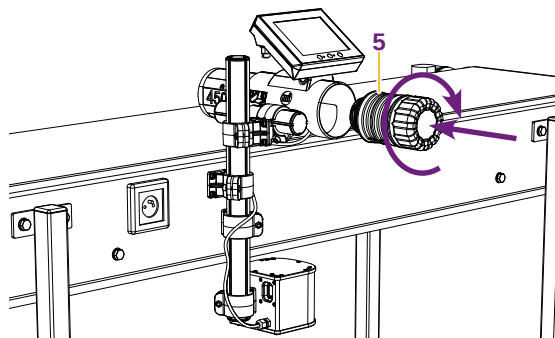
5. Fasten the printer's power supply (2) to the support beam (3) by putting the power supply holder (2b) onto the beam from the bottom.

Use the #5 angle hex key to tighten the screw on the power-supply holder (2b), clamping the holder to the beam.

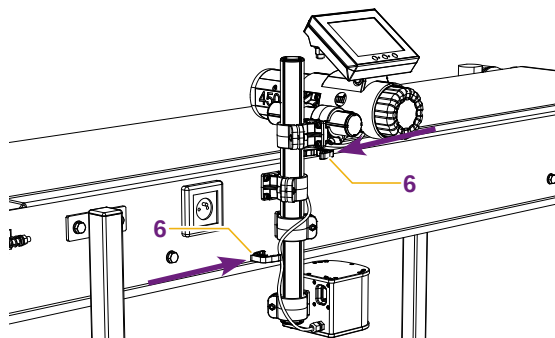


6. Connect the printer's power cable (2a) between the power supply and the appropriate connector at the back of the control unit (see the drawing on the right).

7. Install a bottle (5) of ink of a proper type.



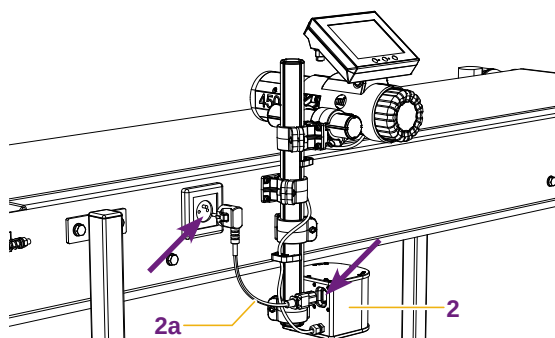
8. Fasten cable holders (6) to the support beam.



9. Connect the power cable (2a) between the power supply (2) and the electric power system.

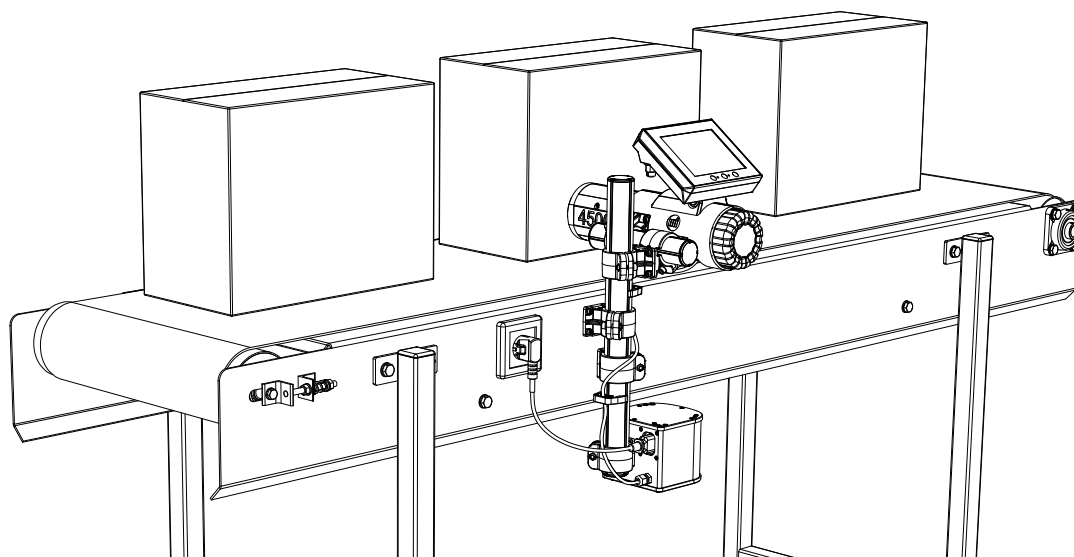


The information on the required power supply is given in Safety Instructions.



The printer is installed in its standard working position and ready to start.

Description



Make sure that objects to be labeled are within photocell reach when the installation is finished.

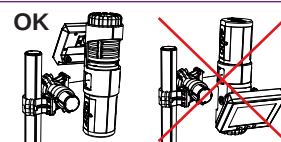
The distance between the printhead face and objects to be labeled should range from 2 to 20 mm.

■ Non-standard installation

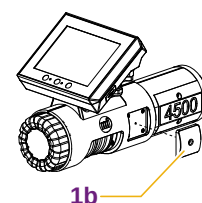
Holders supplied in the installation kit allow the printer to be installed on a factory conveyor in a number of ways.



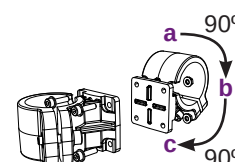
The printer can be installed in any position except in the "upside down" position.



- The holder can be attached to the printer on the left or right-hand side. The unused mounting hole is filled with a plug (1b).



- The articulated holder offers 3 positions (a, b, c).



*If the printer is installed in the "downward" position, it is recommended that the **Rotate screen**: parameter be set to: **Yes**. For more details see the section entitled "Configuring the display".*

■ First printer startup

After the printer has been installed on a factory conveyor, it is ready to start.

1. Press the  button.

The printer starts running.

The information about the installed bottle of ink is displayed on the screen.

When a job is created and sent to print, the printer is ready to print.



For more details on starting the printer, creating jobs and sending jobs to print see the corresponding sections.



If a message indicating unauthorized system components appears after startup, contact a Markem-Imaje representative.
