Dual Cassette Loader (DCL)
User's Guide

Edition 11/2023
Order No PF.999.0005/04

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Important notice:

Our products are constantly improved and subjected to further development. Consequently, the information in this manual is subject to change without notice.

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The information contained in this manual about performance and speed as well as technical data concerning application of our products is not legally binding as it does not constitute a written contract of features.

If any problems occur with the product described in this manual, please contact the agency which is responsible for you.

Translation of the original Instruction Manual

Order No PF.999.0005/04
Edition 11/2023

Printed in Germany.

Before you start ...

1 Introduction

2 Notes on Installation

3 Operation

4 Service and Maintenance

5 Technical data

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About this documentation

This documentation is intended as a reference for the operator during training courses and during operation.

Note: This documentation must be retained for future use until disposal of the device.

Prior instruction

The user, having attended a training course, should be familiar with the DCL.

Typographical conventions

The following typographical conventions are used in this manual:

- References to other chapters and sections are in blue (on the screen) and underlined.

  Example: See "Typographical conventions", page 7.

- Quotation marks are used to indicate menus, folders, functions, hardware labels, switch settings, system messages, etc.

  Example: Set the switch to "off".

- Menus, functions and submenus are separated from one another by a ">".

  Example: Select "File > Open...".

- Buttons that are held down simultaneously are connected with a plus sign.

  Example: Press Alt+A.

Important Information

Important text information is indicated by symbols on the side which are used as follows:

DANGER

The "DANGER" signal word indicates a hazard with a high risk which, if not avoided, will result in death or severe injury.

Warning

The "WARNING" signal word indicates a hazard with a medium risk which, if not avoided, can result in death or severe injury.

Caution

The "CAUTION" signal word indicates a hazard with a low risk which, if not avoided, can result in minor or moderate injury.

Note

The "NOTE" signal word indicates possible material damage. Failure to observe this can cause damage to the machine.

Note: Contains important general or additional information about a specific topic.

Requirement: Lists requirements which must be met before the subsequent steps can be performed.

Safety information

This device complies with the safety regulations of the standards and specifications listed in the "Technical data" chapter.

The Dual Cassette Loader is called DCL in this documentation.

Device names

Designation type	**Name**
Sales designation	Dual Cassette Loader
Type designation	PF.000.000B

Intended use

The DCL is a plate loading device for automatic loading of offset printing plates and must only be used for this purpose as described in the user documentation.

Do not place any objects or liquids on the device.

Ventilation openings must be kept clear at all times.

Notice

Do not sit on the cassette when it is pulled out!

General information

The DCL must only be installed by authorized service personnel. The ambient conditions must be observed for this.

For the operator of a print shop, it is important that the limit values regarding breathing air pollution load in the work area where the DCL is located are observed. The air exchange must be constructed in a manner that the measured dust particle load is regularly below the limit values. In accordance with the state of the art, this can be achieved with an 8 to 10 air exchange rate per hour. If this is not the case at the installation site, the operating company must install an additional exhaust system.

Warning

Risk of fatal injury from unauthorized opening of the device

Unauthorized opening of any parts of the casing not specifically referred to in the operating manual and improper repairs can lead to considerable danger for the user.

Maintenance may only be performed by authorized personnel trained for this purpose. The relevant accident prevention regulations must be observed at all times.

Failure to observe the accident prevention regulations can lead to the loss of accident insurance coverage.

Caution

Risk of injury from improper handling

Plate edges can be sharp. You can injure your hands if you do not wear protective gloves.

Caution

Risk of injury from improper handling

The following loads should not be exceeded: women 15 kg, men 25 kg.

Main switch with emergency stop function

The DCL is also **disconnected from power** via the **main switch** (red rotary switch) **on** the **Suprasetter**.

The main switch (red rotary switch) disconnects all poles of the Suprasetter and the DCL from the power supply. In an emergency, this main switch can be used as an emergency stop switch for the Suprasetter and the DCL.

Emergency stop switch

All mechanical movement of the DCL and the Suprasetter are stopped when the emergency stop switches are used. Use these switches in cases of emergency only. They are located on both sides of the DCL.

Warning

Danger! High voltage!

The machine is not disconnected from the power supply after using the emergency stop switch! The machine is still under voltage.

Maintenance and care

Maintenance may be carried out solely by persons authorized to do so by HEIDELBERG.
The relevant accident prevention regulations must be observed at all times.

Warning

Risk of injury from improper handling

Never remove covers or any other parts of the casing except for the work described in the "Maintenance and care" and "Troubleshooting" chapters. Keep exactly to the described procedures when doing this.

Otherwise, you may be fatally injured by electric shocks.

Safety loop

For your safety, the DCL is equipped with a safety loop. All mechanical motions are stopped if the safety loop is interrupted, for example, by opening the side panel.

DANGER

Risk of injury if safety system bypassed

This safety loop must never be bridged as you are otherwise in danger of being crushed by moving parts or fatally injured by electric shocks.

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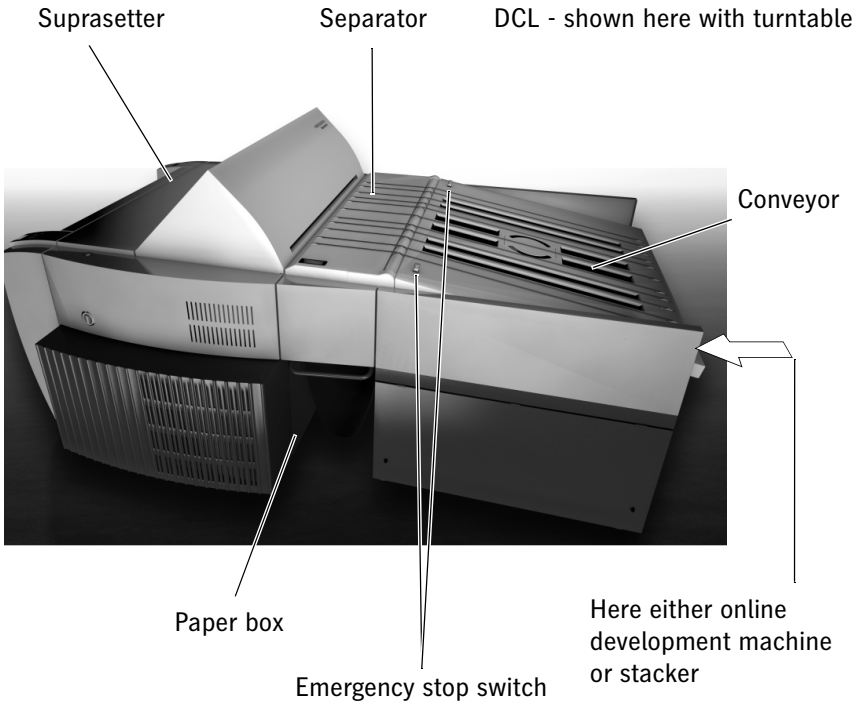
Description of the DCL device and its functions



The DCL is a plate loader for the Suprasetter.

There are two variants of the DCL:

- Dual Cassette Loader (DCL)
- Dual Cassette Loader (DCL) with turntable

Dual Cassette Loader (DCL) with two cassettes

Two cassettes can each hold plates of the same format including release paper up to a fill level of 38 mm.

The plates are loaded into the recorder and imaging is carried out under daylight conditions.

Cassette

Orientation and positioning tools for the plates

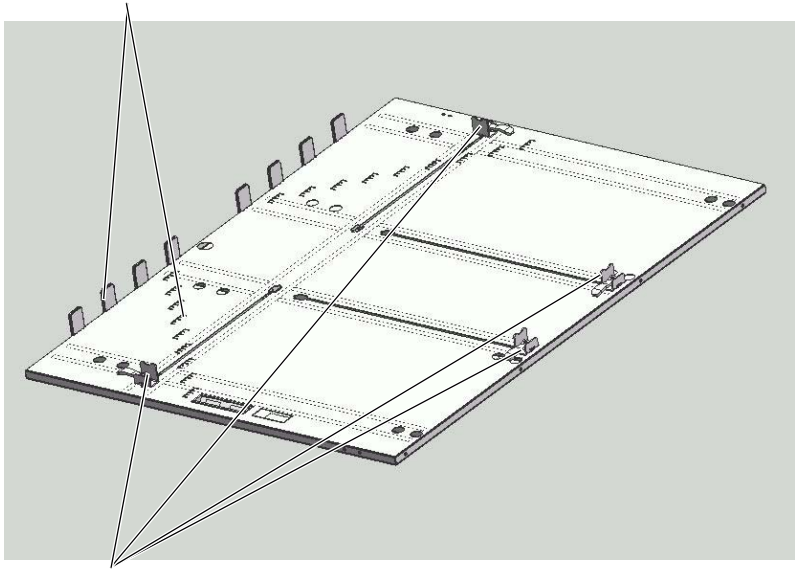


Plate edge control in guide rails

Conveyor

The conveyor is also the top cover of the DCL. With the help of conveyor cords driven by a step motor along the entire length of the device, the exposed plates are transported either to the online developing machine or to the stacker.

The front part of the conveyor (above the separator) can be opened to remove paper or plates (see the section "Removing a plate or slip sheet", page 38).

Turntable

The turntable is used for certain plate sizes. The DCL with turntable option can rotate plates with widths of 850 mm or more (slow scan) by 90° if the rotated width (fast scan) then becomes less than 850 mm.

Note: The rotated plate then continues to run centered on the conveyor cords to the online processing machine or to the stacker.

Note: The largest specified plate (1150 mm x 930 mm) is not rotated.

Notice

Abrasion debris from the conveyor belts or the area on which the plate is rotated must not fall onto the stack of plates lying below. Clean the transport cords and the device surface regularly with a damp cloth.

Warning

Risk of fatal injury due to electrical shock

If cleaning the Suprasetter involves the use of liquids, disconnect it from the power supply beforehand.

Disconnect the power plug from the building connection or switch it off with the main switch.

Separator

The separator alternates between lifting and removing a plate and release paper from a stack with plates and release papers. The plate and the release paper are then each conveyed to their next corresponding process.

The slip sheets are removed automatically and collected in a paper container that can hold up to 400 slip sheets depending on its size.

Installation of the device

The DCL may only be installed by authorized service personnel. The ambient conditions must be observed for this.

- The floor at the installation site must be even and stable.
- During installation, ensure sufficient distance of walls and other objects to the side panels to ensure sufficient ventilation and swift maintenance. (For minimum distances, see the illustrations in the installation instructions.)
- The device should not be installed near air-conditioning equipment and must be protected from humidity and direct sunlight.

Note: Initial installation is performed by service personnel. This includes lifting the device off of the pallet and removing the transport locks.

Connection to the Suprasetter

The DCL is connected to the power supply via the Suprasetter.

The DCL is also disconnected from the power supply via the main switch on the Suprasetter.

Activation and deactivation restrictions with a Linux-based operating system

The workstation (PC) of every Suprasetter with a Linux operating system must be activated for the device to start up. The software of the Suprasetter is on the PC and is transferred to the Suprasetter during the boot phase. For that reason, the Suprasetter cannot run without a PC.

Observing the correct activation and deactivation sequence is obligatory. If this sequence is not observed, unforeseeable errors and issues may occur in the communication between the devices that can only be remedied by activation and deactivation of the Suprasetter in the correct sequence as described below.

Workstation (PC) restart

The Suprasetter must be in an off state when you restart the workstation (PC).

Activation sequence

1. Switch on the workstation (PC), log into the Prinect account and start the "CtP User Interface".
2. Wait until the CtP User Interface has finished its startup routine.
3. Switch the main switch on the Suprasetter to 'I'.
4. Press the On/Off button on the Suprasetter as far down as it will go before releasing it.

This activates the Suprasetter and the DCL.

The devices still require another approx. 15 minutes (or longer depending on the temperature at the installation site) to reach their operating temperature.

Apart from inserting and removing the printing plates, all further operation is carried out at the workstation.

Deactivation sequence

Note: The DCL can only be switched off together with the Suprasetter.

There are two ways to switch off the devices:

- Shutdown using the user interface on the workstation.
- Shutdown with the On/Off button on the Suprasetter.

Note

The required ambient conditions must be observed for at least 12 hours after deactivation to prevent device damage due to condensation.

Shutdown using the user interface on the Workstation

Note

Always observe the deactivation sequence described here. The interior of the Suprasetter can become damaged if you switch off the Suprasetter directly with the main switch.

1. Click the "Switch off recorder" button in the Suprasetter GUI.

The "Confirmation" window is displayed.

2. Click "Yes" in the "Confirmation" window.

The Suprasetter and the DCL are deactivated.

3. Set the main switch to '0' on the Suprasetter for cleaning and maintenance.
4. Switch off the workstation (PC).

Shutdown with the On/Off button on the Suprasetter.

Note

Always observe the deactivation sequence described here. The interior of the Suprasetter can become damaged if you switch off the Suprasetter directly with the main switch.

1. Press and hold down the On/Off button (approx. 3 seconds) until a beep is heard.
2. Release the On/Off button.
3. Press the On/Off button a second time.

The Suprasetter and the DCL are shut down.

Note: You must repeat the shutdown procedure from the start if the beep sounds for a second time before you have carried out step 3.

4. Set the main switch to '0' on the Suprasetter for cleaning and maintenance.
5. Switch off the workstation (PC).

Note: If the workstation (PC) is required without the Suprasetter (e.g., for a job transfer), restarting the PC before restarting the Suprasetter is recommended. The Suprasetter must be in an off state when the workstation (PC) is restarted.

Note: The workstation (PC) must remain active in the timer mode of the Suprasetter.
The main switch must be at 'I' if the Suprasetter is to be started automatically, e.g., before the beginning of a shift.

Quick shutdown with the On/Off button on the Suprasetter.

If the recorder is currently running an error correction (this can take several minutes), quick shutdown is not possible after entering the shutdown sequence. You can, however, force a quick shutdown by entering the shutdown sequence again.

1. Press and hold down the On/Off button (approx. 3 seconds) until a beep is heard.
2. Release the On/Off button.
3. Press the On/Off button a second time.

Now repeat the shutdown:

4. Press and hold down the On/Off button (approx. 3 seconds) until a beep is heard.
5. Release the On/Off button.
6. Press the On/Off button a second time.

The Suprasetter interrupts the error correction and shuts down.

Note: Here as well, you must repeat the shutdown process if the beep sounds for a second time before you have carried out step 3 or 6.

Material handling

Observe the following when handling the printing plates:

Caution

Risk of injury from improper handling

Plate edges can be sharp. Wear protective gloves. These will protect you from injury.

- Never touch the emulsion side of the printing plate with your bare hands. Fingerprints will remain on the printing plate which can adversely affect print quality.
- The printing plates are very easily scratched. For this reason, slip sheets must be inserted when you place printing plates on top of each other so that they cannot scrape against each other.
- Do not load obviously damaged plates into the DCL. This can cause malfunctions of the DCL.

Material storage

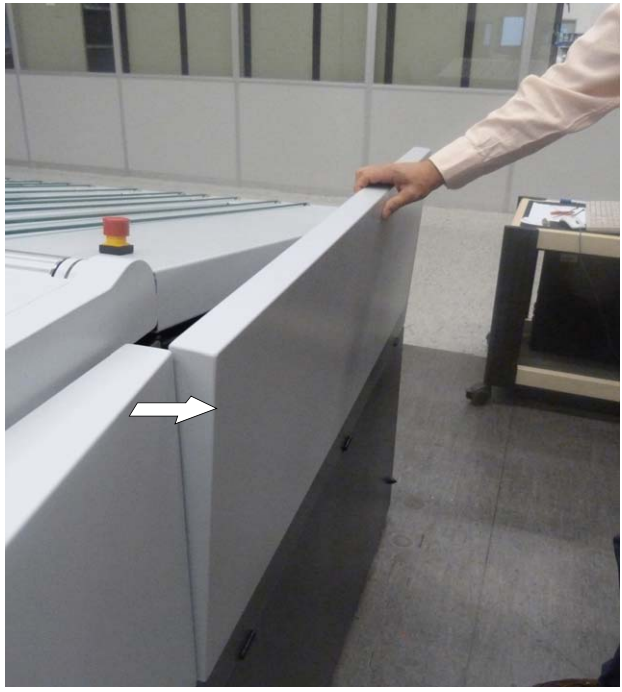
Various requirements apply to the storage of printing plates prior to imaging, after imaging and after development. Please refer to the manufacturer of the printing plates for information.

Loading plates to the cassette

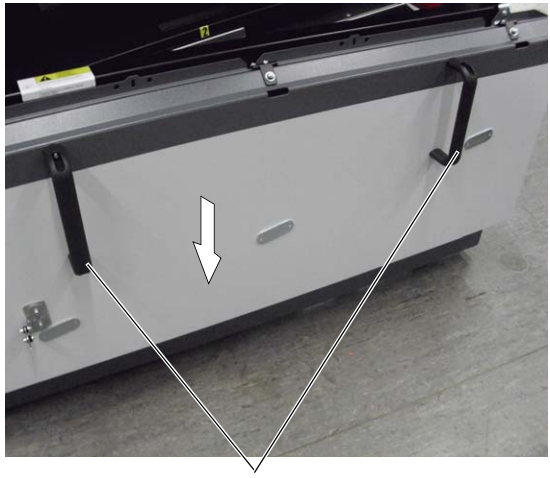
1. Click the "Device" button in the user interface.

2. Select "Input" in the vertical menu bar.

3. Click the "Unload cassette from the Autoloader" button.
   An internal process is started.
4. Open the side panel (operator flap) of the DCL by pulling it towards you.

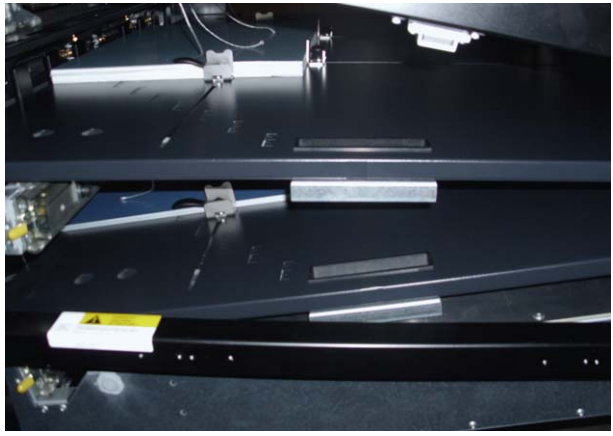


5. Carefully fold the side panel down. Hold it by its inside handles for this.

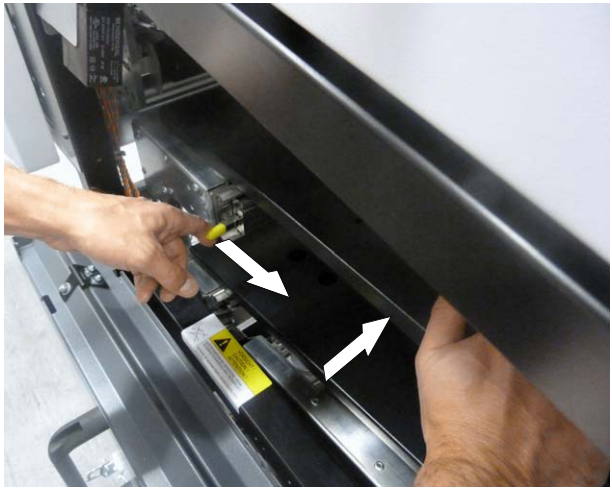


Inside handles

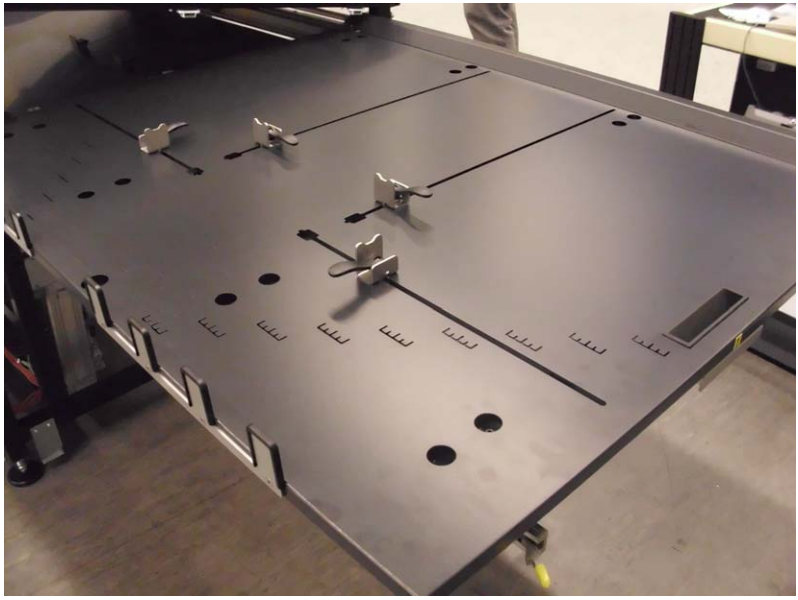
You can now see the two cassettes of the DCL:



6. To pull out the cassette for loading, push it back slightly and release the yellow lever (pull-out stop) at the same time by pressing it to the right.



7. Pull out the cassette completely as far as possible until you hear it lock in place.



Note: The cassette can be moved back and forth if it is not pulled out completely, i.e. its position is not stable. If this is the case, push the cassette back again and pull it out energetically as far as possible.

Caution

Risk of injury from improper handling

Plate edges can be sharp. Wear protective gloves. These will protect you from injury.

8. Wear protective gloves.
9. Remove the printing plates from the packaging.

Notice

A slip sheet must always be inserted between each plate so that they cannot scrape against each other.

10. Place the plates onto the center of the cassette with the emulsion side facing up.

Note: Use the orientation and positioning tools on the cassette to align the plates.

The number of plates that you can place in the cassette depends on the thickness of the plates and on the paper thickness between the plates.

You can check how much the cassette holds by means of the plate edge control. The recess indicates the maximum hold.

Maximum filling height: 38 mm

11. After centering the plates, push the plate edge controls in toward the plates.

Note: Make sure that the plate edge controls do not touch the plates directly, but leave a clearance of 2-3 mm between the plates and the plate edge controls.

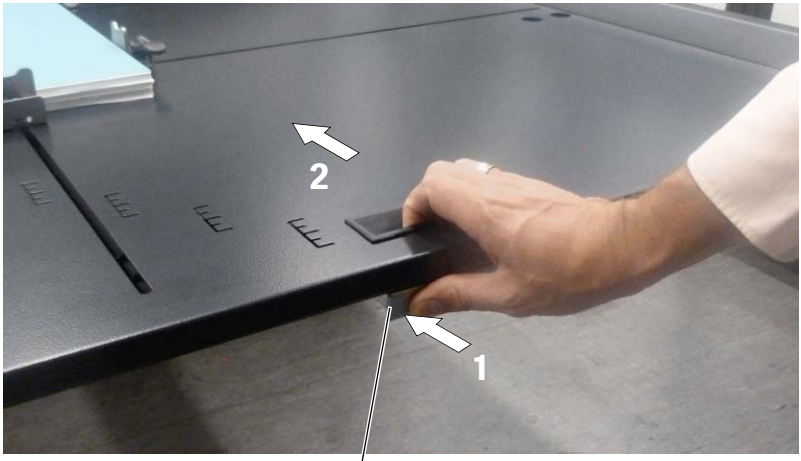
12. After you have centered the plates and positioned the plate edge controls correctly, firmly flip down the levers of the plate edge controls.

Plate edge control, open

Plate edge control,
closed

13. Push the cassette back into the loader.

    To do this, first push back the unlock rod (1) and then push the cassette back completely as far as possible (2). The yellow lever then locks the cassette again.



14. Close the side panel (operator flap).
15. Start imaging.

Removing plates from the DCL/reloading plates/changing format

If the cassette is empty or to load a different plate size, the cassette must again be pulled out of the DCL.

Operation:

1. Click the "Device" button in the user interface.

2. Select "Input" in the vertical menu bar.
3. Click the "Unload cassette from the Autoloader" button.

The cassette is released for unloading.

Emptying the paper waste container

How much the paper waste container can hold depends on the paper format and paper thickness. This corresponds to one full plate load.

To avoid malfunctions, the paper container must be emptied regularly. Empty the paper container during plate format change or after a new loading process to avoid delays during operation.

A message to empty the paper container will appear in the user interface if the paper container is not emptied on time. An acoustic signal is also issued.

You can pull out the waste container at any time, however. This does not disrupt the processing of the plates. The worst case scenario is that a piece of paper that is being conveyed at that moment will fall to the floor.

When the paper waste box contains a specific amount of waste (this depends on the size, paper and other factors), some of the paper will first stick to the plates because of the friction on the transport rollers and then fall off toward the rear. This is not a malfunction, but the maximum holding capacity of the paper waste box is increased.

1. Pull the paper container out of the device as far as possible.

2. Remove the slip sheets from the paper waste container and dispose of them.
3. Push the paper waste container as far as possible back into the device.

Notice

Do not lean on the tube frame of the paper waste box, this will cause it bend.

Troubleshooting

If there is a malfunction in the DCL, a beep is issued, the status LEDs will flash and an error message will be displayed in the GUI.

1. Click the "Error messages" button.

   Help information with the following content is displayed:

   - Error ID
   - Description of error
   - Error remedy

2. Eliminate the errors as described in the instructions.
3. Click the "Correct ERROR" button. This action returns the DCL to its initial state and the function which was interrupted by the error can be repeated.

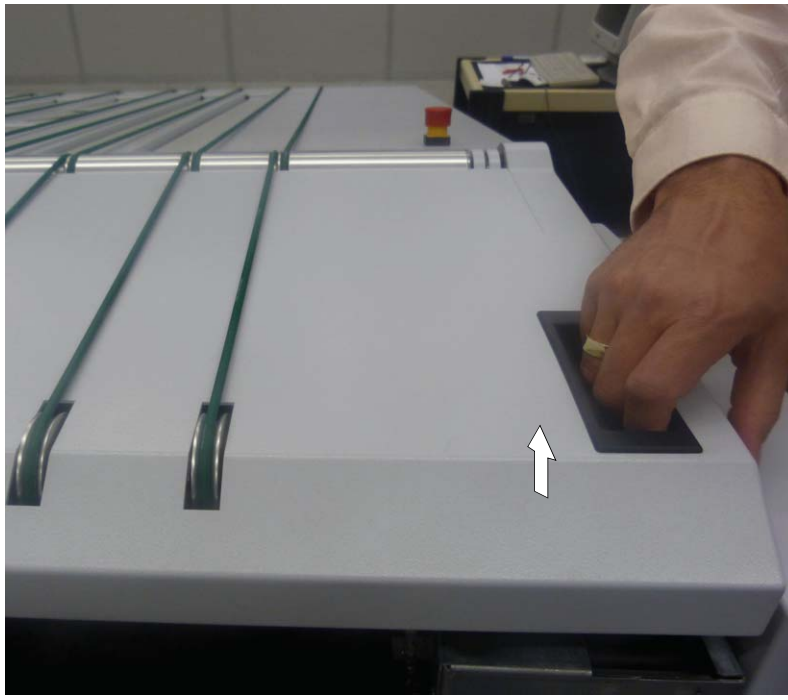
Removing a plate or slip sheet

Proceed as follows when you see a request to remove a plate or slip sheet:

The front part of the conveyor (above the separator) can be opened.

1. Open the conveyor by pulling its handle upwards.

Note: Opening this without a prompt triggers an emergency stop.



Caution

Risk of injury from improper handling

Plate edges can be sharp. Wear protective gloves. This will protect you from injury.

2. Wear protective gloves.
3. Remove the plate or slip sheet that caused the fault from the device.

Notice

Ensure that you do not damage any mechanical components with the plate! (suction cups, cables, hoses, etc.).

4. Close the conveyor again.
5. Click the "Correct ERROR" button. This action returns the DCL to its initial state and the function which was interrupted by the error can be repeated.

General

Maintenance work carried out by the user is described in this chapter. The DCL does not contain any parts within the housing which require maintenance by the user.

Warning

Risk of fatal injury due to unauthorized opening of the device

Unauthorized opening or improper repairs can lead to considerable danger for the user.

Maintenance work may only be performed by authorized personnel specialized in this field. The relevant accident prevention regulations must be observed at all times.

Failure to observe the safety regulations may result in the loss of accident insurance!

Cleaning the device

Warning

Risk of fatal injury due to electric shocks

If cleaning the Suprasetter involves the use of liquids, disconnect it from the power supply beforehand.

Disconnect the power plug from the building connection or switch it off with the main switch.

The surfaces of the DCL can be cleaned using a dry cloth.
If it is very dirty, it can be cleaned with a damp cloth which has been dipped in dish soap and wrung out well.

Ensure that no fluids get inside the DCL and keep moisture away from the connections on the rear of the DCL.

Do not use any abrasive cleaning agents or solvents.

Notice

Before restarting the device, make sure that all surfaces holding plates are completely dry. Malfunctions are otherwise possible.

Cleaning the cassette

The surfaces of the cassettes can be cleaned using a dry cloth.

If these are very dirty, they can be cleaned with a damp cloth which has been dipped in dish soap and wrung out well.

Ensure that no liquid gets inside the cassette.

Do not use any abrasive cleaning agents or solvents.

In the case of stubborn soiling, clean the interior of the cassettes and the cassettes themselves with a vacuum cleaner.

Dual Cassette Loader (DCL)

Dimensions		
DCL	Width	1680 mm
	Depth	1720 mm
	Height	1150 mm
Cassette drawer, extended	Width	2825 mm
	Depth	1720 mm
	Height	1150 mm
Weight		
Empty, depending on variant	approx. 335 kg - 460 kg	
Fully loaded, depending on variant	approx. 445 kg - 680 kg	
Floor strength requirements (We recommend screwing the device feet to the floor to prevent the device from slipping when set up on a smooth surface.)	3.5 kN/m^2 in places max. 90 N/m^2	
Power supply - Power supply via Suprasetter	~ 200 V - 240 V AC	
Frequency	50/60 Hz	
Power consumption	max. 1 A, max. 250 W typical: approx. 0.5 A, approx. 120 W	(without Suprasetter)

Compressed air supply via Suprasetter Compressed air, dry, oil-free, filtered (class 5.4.2 compliant with ISO 8573-1)	min. 6 bar, max. 8 bar 350 l/min DN10 hose connection	(without Suprasetter - only DCL via Suprasetter)
Ambient conditions (operation)	Temperature	+17 °C to +30 °C
	Air pressure	700 mbar to 1060 mbar
	Relative humidity	40 % to 70 % non-condensing
Ambient conditions (transport)	Temperature	-20 °C to +50 °C
	Air pressure	250 mbar to 1060 mbar
	Relative humidity	10 % to 85 % non-condensing
Noise emission	< 67 dB (A), workplace-related value < 70 dB (A) with Lexium 32	
Plate sizes		
	W x H min.	323 mm x 370 mm
	W x H max.	1150 mm x 930 mm
Plate thickness	0.15 mm to 0.35 mm	

Plate supply		
Filling height	Maximum filling height on the cassette (indicated by marking on plate edge controls)	38 mm
Plate count	Max. number of plates, depending on paper thickness	approx. 110 with 0.30 mm thickness approx. 190 with 0.15 mm thickness
Holding capacity (paper container)	dependent on plate format and paper thickness equivalent to at least one full load of plates	

Protection and safety requirements of the DCL

Standards and regulations

This device complies with the safety regulations of the directives and standards listed below.

General standards and regulations

ProdSG "Product Safety Act" (2011)	(Germany)
2006/42/EC Machine Directive	(Europe)
2014/35/EU Low Voltage Directive	(Europe)
2014/30/EU EMC Directive	(Europe)
EMVG "Electromagnetic Compatibility Act"	(Germany)

Mechanical Safety

EN ISO 12100	(Europe)
EN 1010-1/2	(Europe)
IEC 68-2-6	(International)
IEC 68-2-27	(International)

Electrical Safety

EN ISO 13849-1	(International)
EN 60204-1	(Europe)
IEC 60204-1	(International)
EN 60950-1	(Europe)
IEC 60950-1	(International)
UL 60950-1	(USA)
CSA C22.2 No. 60950-1	(Canada)

Interference emission (interference radiation and interference voltage)

EN 61000-6-4:2007+A1:2011	(Europe)
EN 61000-3-2:2014	(Europe)
EN 61000-3-3:2013	(Europe)
EN 61000-3-11:2000	(Europe)
FCC CFR 47, Part 15, Subpart B, Class A	(USA)
ICES-003, Class A	(Canada)
CISPR 22:2009+A1:2010	(Australia/New Zealand)

Interference immunity

EN 61000-6-2:2005	(Europe)
IEC 61000-6-2:2005	(International)

Radio interference suppression

To comply with directive 2014/30/EC on electromagnetic compatibility, the device must only be operated with all covers correctly installed.

Ensure compliance with radio interference suppression regulations when connecting other electrical devices to this unit by observing the instructions on correct installation and maintenance provided by the manufacturer.

Compliance with radio interference suppression regulations can be presumed if the devices in question are marked with the European Union mark of conformity (CE) and the instructions for installation, operation and maintenance are observed.

FCC note

This device has been tested and complies with the restrictions for class A digital devices (see section 15 of the FCC regulations). These restrictions are to provide protection against harmful interference during operation of the device in commercial environments. The device generates and utilizes high-frequency oscillation and can emit it. Interference with radio and television reception can occur if the device is not installed and operated in compliance with the manufacturer's instructions. Harmful interference can occur during operation in a residential environment. Elimination of this interference is at the expense of the user.

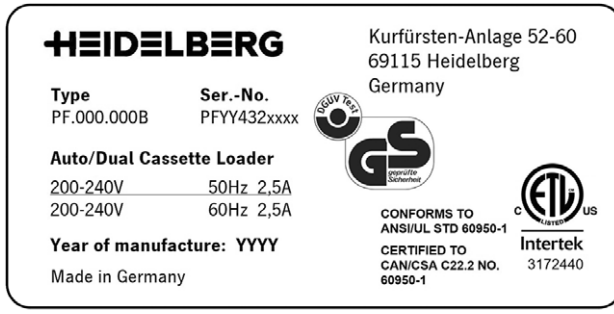
Declaration of Conformity

The facts below apply exclusively within the member states of the European Economic Area (EEA) as well as to England, Scotland, and Wales as part of the United Kingdom (UK) and to products for which HEIDELBERG in its entirety is the manufacturer:

- The original version of the declaration of conformity is enclosed with this operating instructions.

Overview of labels

Type label



The type label is located on the left side in the interior and on the rear of the DCL (see "Label positions on the DCL", page 54).

FCC label

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.
Cet appareil numèrique de la classe A respecte toutes les exigencis du Règlement sur le matèriel brouiller du Canada.

The FCC label is located above the type label on the rear of the DCL (see "Label positions on the DCL", page 54).

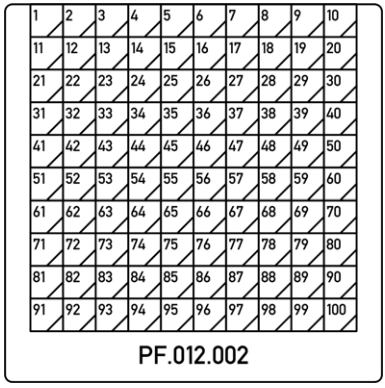
Crushing hazard warning

The crushing hazard warning label is located on the left and right sides in the interior of the DCL (see "Label positions on the DCL", page 54).

Electrical hazard warning

The electrical hazard warning label is located on the left and right sides in the interior of the DCL (see "Label positions on the DCL", page 54).

100 label

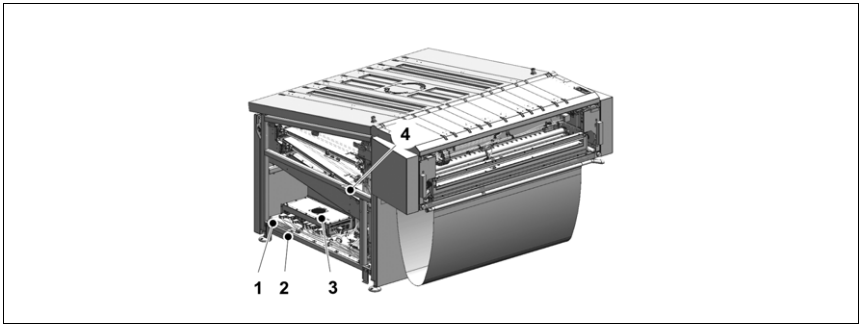


The 100 label is located on the left side in the DCL (see "Label positions on the DCL", page 54).

Tilting hazard warning

The tilting hazard warning label is located on the cassettes in the interior of the DCL (see "Label positions on the DCL", page 54).

Label positions on the DCL

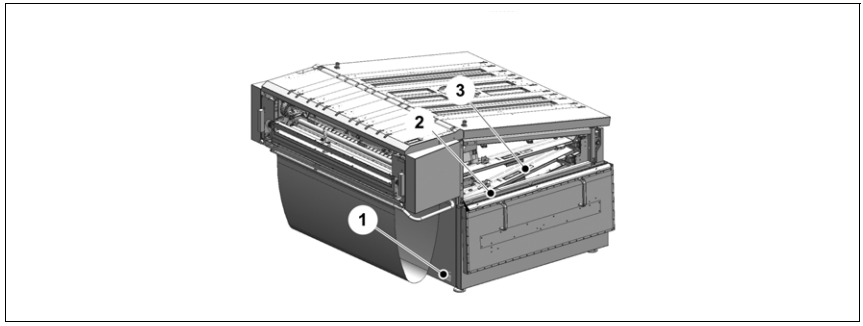


1 Type label

2 100 label

3 Electrical hazard warning

4 Crushing hazard warning



1 Type label, above it the FCC label

The certification labels such as CE, EAC, or UK CA that may be applicable to the device in question are located to the left of the type label and the FCC label.

2 Crushing hazard warning

3 Tilting hazard warning

Notes on disposal of the DCL

The device must be disposed of in compliance with the relevant national regulations.

The device contains harmful substances.

For disposal, send the device to an authorized disposal service.

Addresses can be obtained from the relevant environmental offices or from the environmental officer at the HEIDELBERG location in Kiel, phone +49 431 386 0.

The information in this description is based on our current knowledge and experience. It does not release the disposing entity from the obligation to observe the regulations and legal provisions applicable at the time of disposal.

Disposal of the DCL

The illustrations may deviate from your actual device due to incorporated changes and generalized illustration for all device types.

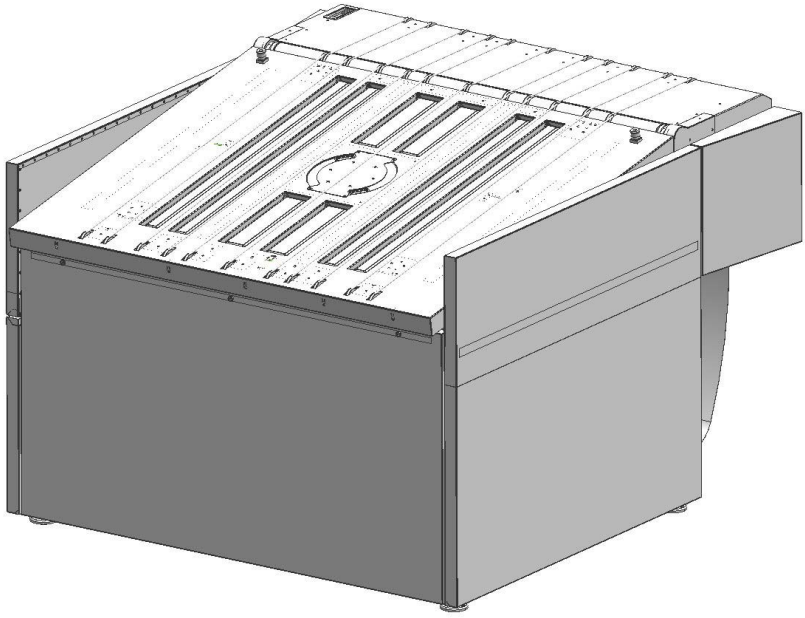


Illustration with turntable option

1680 mm x 1720 mm x 1150 mm,
approx. 335 kg - 460 kg, version-dependent

Harmful substances

The table below lists parts containing harmful substances which therefore must be disposed of/recycled separately. The parts can be identified with the help of the illustration below.

Item	Description	Harmful substance	Image no.
1	Electronic circuit boards	Tetrabrombisphenol A and others	1
2	Electronic circuit boards on the DC motor	Tetrabrombisphenol A and others	1
3	Power supply module	Tetrabrombisphenol A and others	1
4	Various cables	May contain polyvinyl chloride (PVC)	1
5	Gas springs	May contain hydraulic fluid	2

Polyvinyl chloride may be contained in the cable covering.

The electronic components are protected by flame retardants. The electronic circuit boards comply with the Restriction of Hazardous Substances (RoHS) directive. Thermal recycling in accordingly equipped plants can be carried out without problems in accordance with the present state of technology.

Caution

Risk of injury from improper handling

The gas springs are under high pressure. Gas springs are made mostly of metal and can be recycled. The gas springs must be depressurized before this, however.

Observe the disposal instructions of the manufacturer!

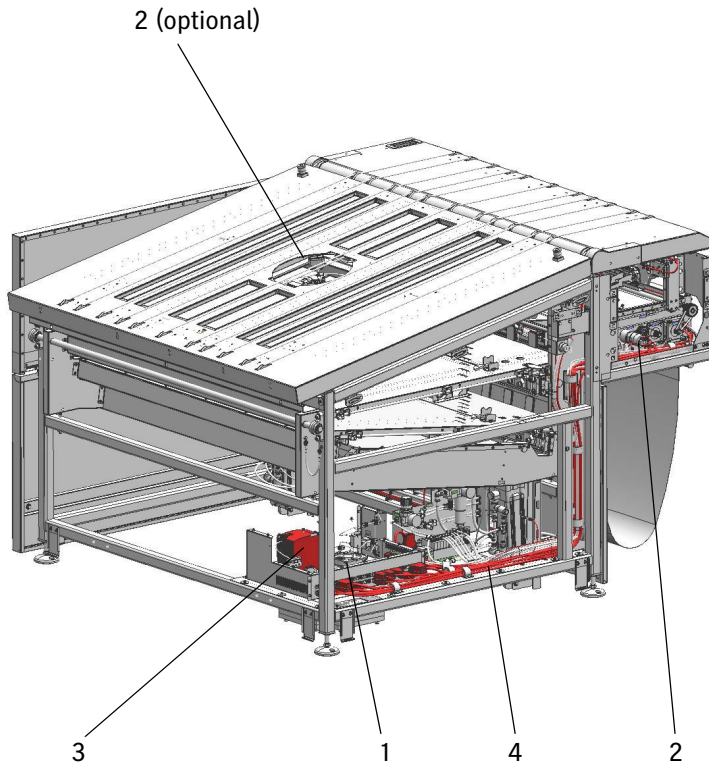


Image 1

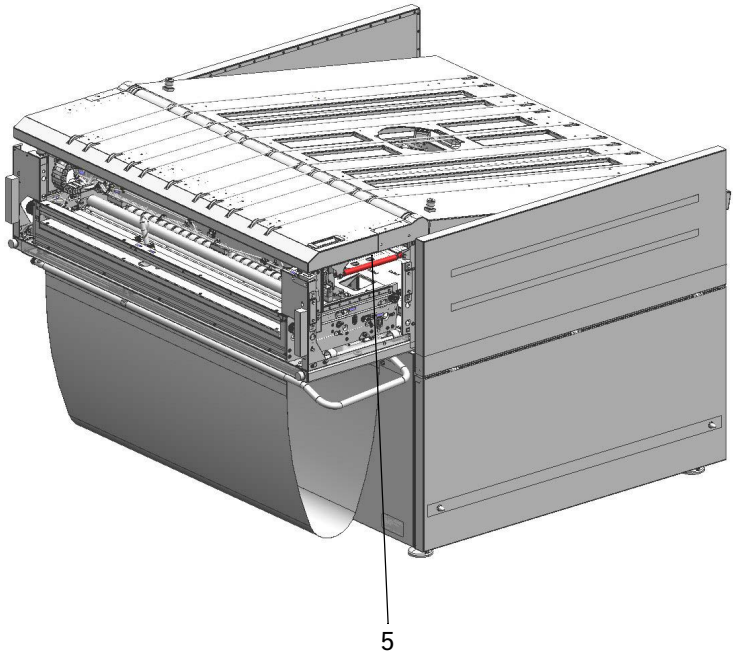


Image 2

Recyclable materials

Item	Description	Material	Approx. weight (kg)	Image no.
1	Metal covers, conveyor	primarily aluminum plate ENAW-AlMg3, varnished	23	3
2	Transport roller	Aluminum tube with glued-in steel spigots ENAW-AlMgSiT6	3.8	3
3	Paper container tube frame	Steel tube, EN 10305-E355	3.2	3
4	Cover plates	primarily aluminum plate ENAW-AlMg3, varnished	31	4
5	Base plates	Sheet steel, galvanized	22	4
6	Base frame	primarily steel tube, varnished, EN 10305-5-E235	76	4
7	2 cassettes	Sheet steel, galvanized, varnished	60	5
8	Basket	primarily sheet steel, galvanized	28	5/6

Item	Description	Material	Approx. weight (kg)	Image no.
9	Basket	Aluminum plate ENAW-AlMg3, riveted and glued together with item 8	10.5	6
	Various parts: Mounting parts Motors Pneumatic cylinders Cables Rubber-coated aluminum rollers	Steel, aluminum, plastic, copper	135 - 205, depending on device option	6

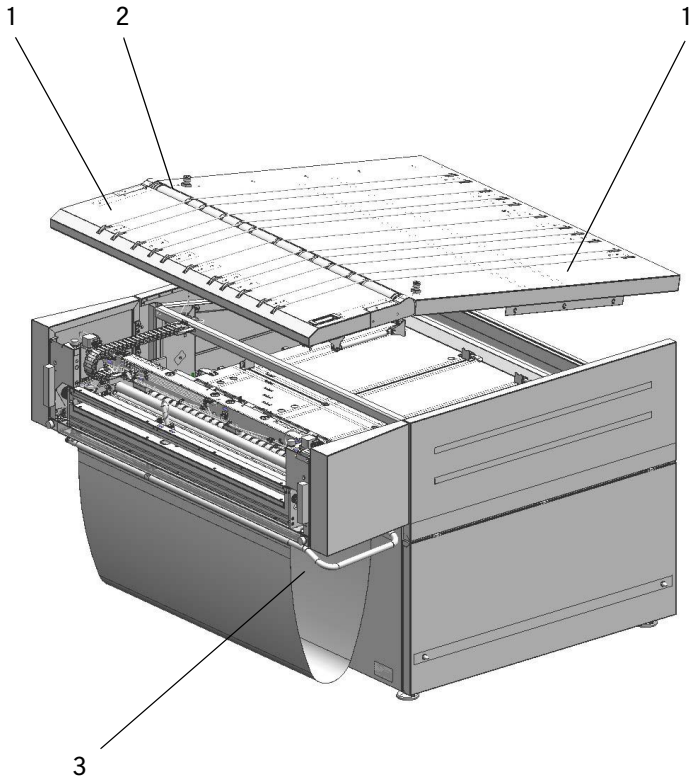


Image 3

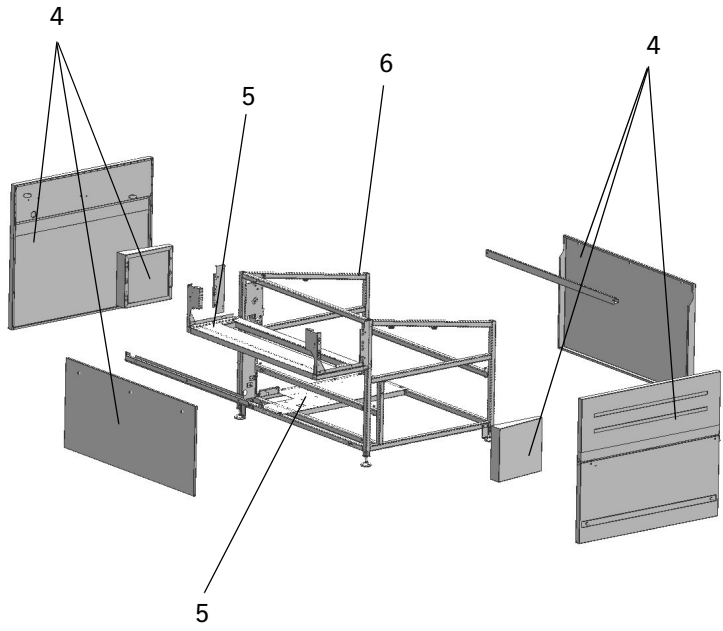


Image 4

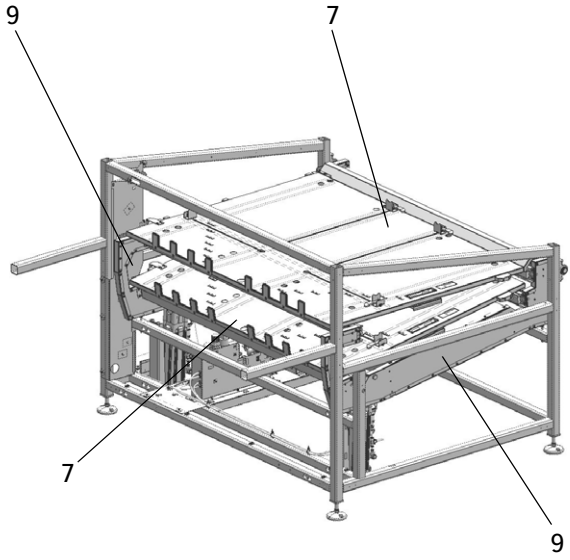


Image 5

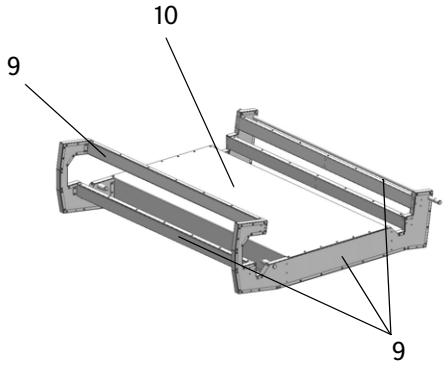


Image 6

Item	Steps	Comment	Image no.
1	Unhook and dismantle the paper container	To do this, remove two steel spacers from below, then pull out the container and tilt it downwards.	7
2	Remove the cover plates	Secured with magnetic locks or screwed on (Allen key)	7
3	Remove the cables and hoses		7
4	Remove and disassemble the conveyor (lift and rotate unit is an optional feature)	Screwed on from below Dispose of the electronic circuit board on the rotate unit properly as electronic waste	7
5	Remove the electronic components	Properly dispose of these as electronic waste	8
6	Remove and dismantle the separator	Screwed on from above. Dispose of the electronic circuit board on the DC motor unit properly as electronic waste	8
7	Remove 2x cassettes	Screwed on from above	8
8	Remove the basket (optional)	Screwed on, on the rear onto the swivel bearing, at the front onto the pneumatic cylinder	9
9	Remove the pneumatic cylinder (optional)	Screwed on from the rear	10
10	Remove the base plates	Screwed on	10

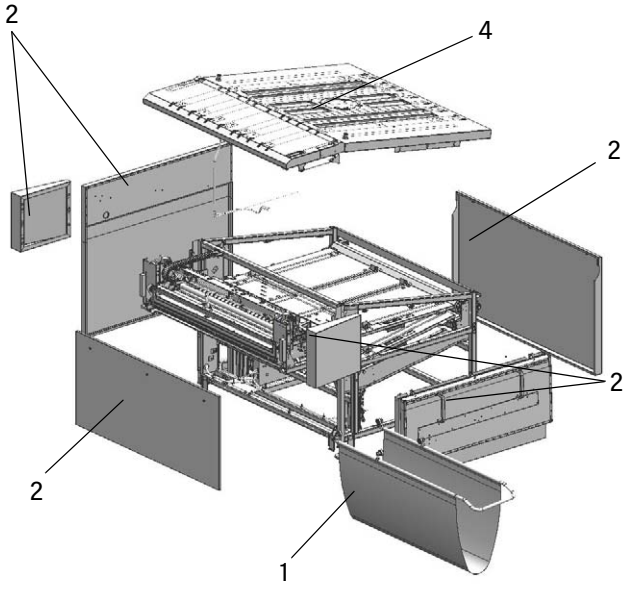


Image 7

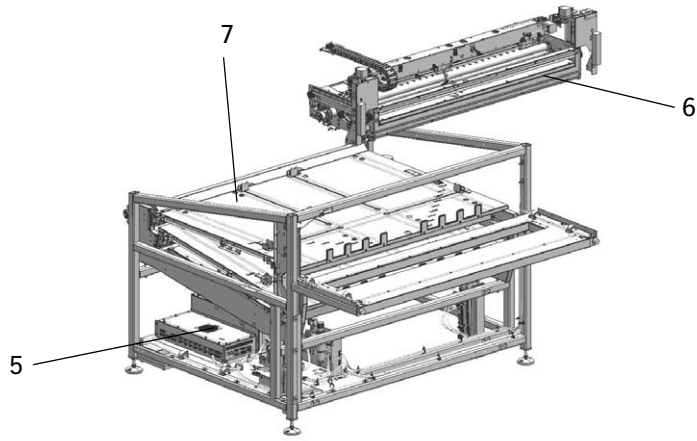


Image 8

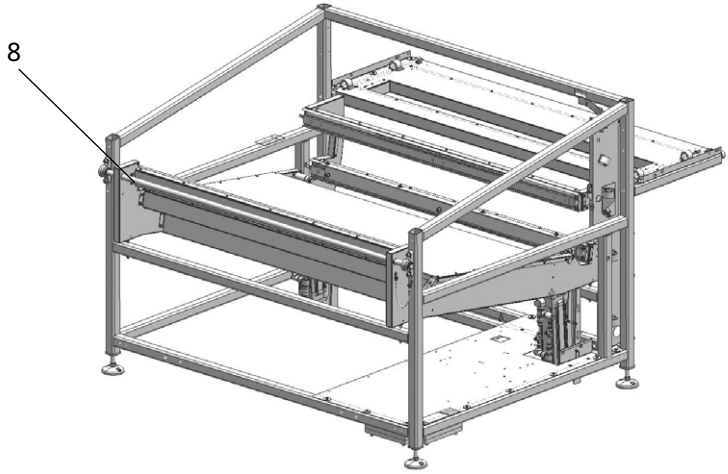


Image 9

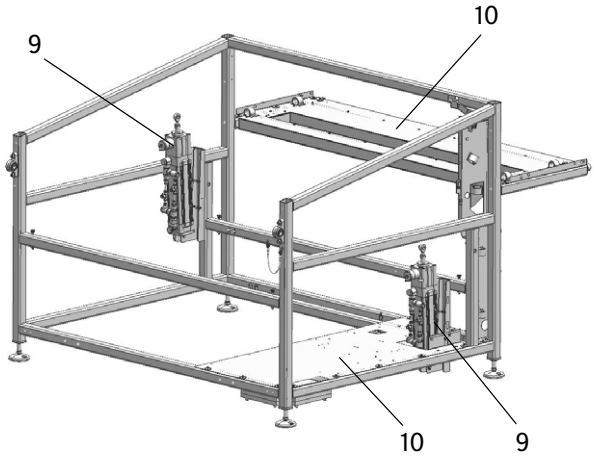


Image 10

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