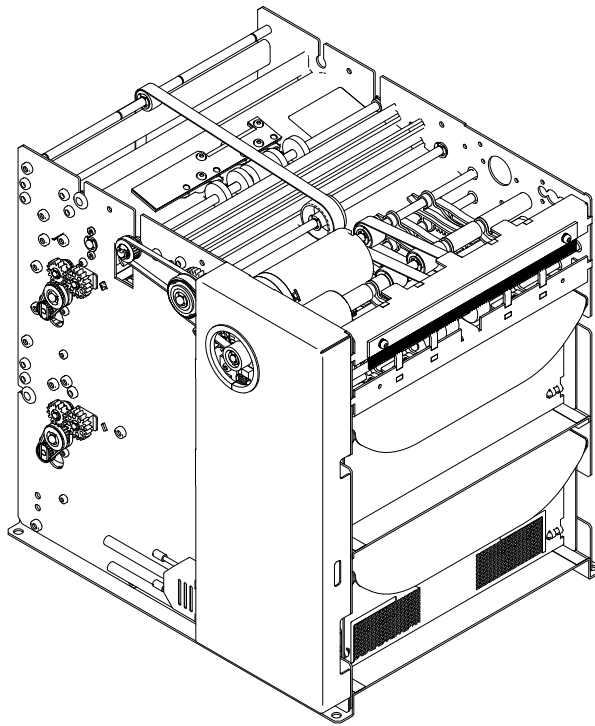# MultiMech

Users Manual

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Obligations of the user

- Everyone working with the machine must read this manual.

- Observe the safety instructions and warning labels.

- Talaris or its representative should replace damaged safety devices such as fuses and warning labels immediately.

	ATTENTION
	The indication ATTENTION warns of the danger of minor physical injury or damage to equipment.

	ATTENTION
	Electrostatic sensitive device. Observe ESD precautions before handling.

	WARNING
	The indication WARNING warns you of the danger of serious physical injury
	CAUTION; Please note that if the machine contain Lithium Batteries there is danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturers instructions.

	DANGER TO HANDS
	The indication warns of possible injuries to the hands. Remember, to take extra care when cover plates have been removed. Beware of fast moving mechanical parts especially when cover plates are removed. Always replace cover plates after completing work.
	To avoid injury, use the following precautions: Always hold the modules on the handling points, marked in green. Close carefully the safe door and covers.

	ELECTRIC SHOCKS
	The indication warns of possible injuries through electrical voltages.
	Improper work on the electrical components can lead to life threatening injuries from electric shocks! Unprofessional handling or incorrect connections can result in the machine no longer being safe for operation.
	Electrical work shall only be performed by qualified personnel (electricians)! Remember, to take extra care when cover plates have been removed, units disconnected, or circuit boards unplugged. The power supply contains unswitched line voltage. Never leave a part-serviced machine connected when unattended.
	When connecting the equipment to a 240V AC supply in the United States and Canada, it is necessary to connect via a double pole 20A circuit protector.

	HOT SURFACE
	Due to the nature of his work, an operator or service technician may have to bypass normal safety interlocks and features to carry out some of the instructions in this manual. Always restore safety interlocks after completing work. At any risk or danger, disconnect the mains cable at the rear of the machine from the mains outlet.

Preface

MultiMech is a product made by Talaris Cash Dispensing AB. This user handling covers description, instructions and information necessary for handling the MultiMech in the correct way

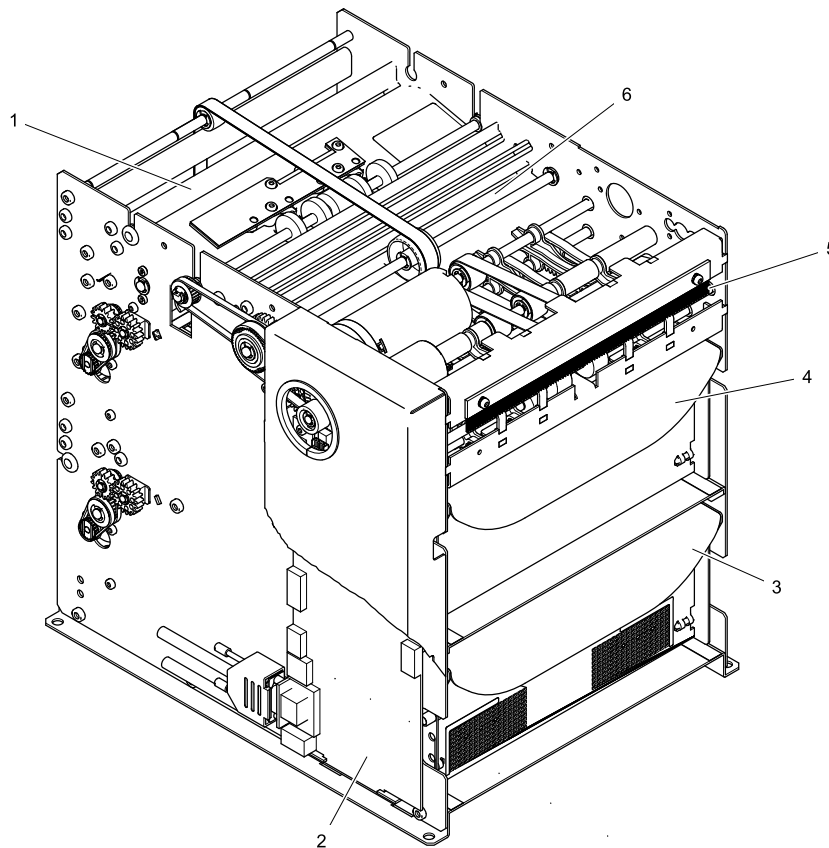Talaris Cash Dispensing AB Flen, Sweden.

Contents

Overview

Notes dispenser (MultiMech)

The MultiMech is a small multi dispenser machine.
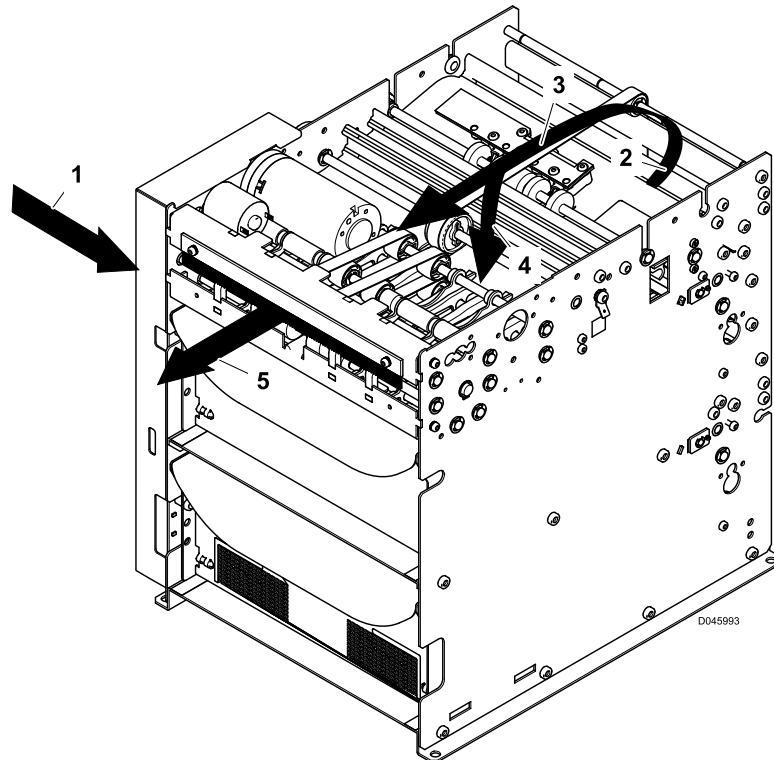
The multi mech consists of the following parts

No	Description
1	Note qualifier
2	PC—Board MultiMech
3	Quick fill cassette QF020
4	Quick fill reject QFR010
5	Note outlet
6	Note transport

The QF020 and QFR010 are where the notes are kept before dispensing and collected if they are rejected.

Introduction

Function

1. **Message to the MultiMech**

   A request to dispense is made. It is then transmitted as a message to the machine controller in the MultiMech. This message describes the number of notes to be dispensed.

2. **Notes up from the tray**

   The MultiMech counts the required number of notes and feeds them to the note qualifier.

3. **Note qualifier**

   The note qualifier measures the notes and feeds them into the note transport. Incorrect notes will be rejected into the reject compartment in the QFR010.

4. **Notes to reject**

   The notes are counted a second time and checked for incorrect note feedings when being passed through the note qualifier.If this test indicates an error, the MultiMech is stopped immediately for clearing of the note transport mechanism. If any test indicates an error, the faulty note will be transported to the reject and an extra note is fed from the cassette part of the QFR010.

5. **Notes counts and tests**

   When the tests indicate no error the notes are delivered to the note outlet.

Loading and unloading notes

Preparing notes

- The number of rejects depends directly on the loading procedure and the quality of the notes. Store the notes at room temperature for at least eight hours before feeding from trays. The following procedures are recommended to aid easier note feeding from trays. Without preparation, feeding problems may occur, such as a higher reject rate or jams in the transport path.
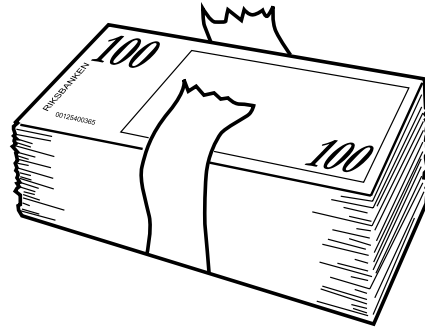
D006164-02
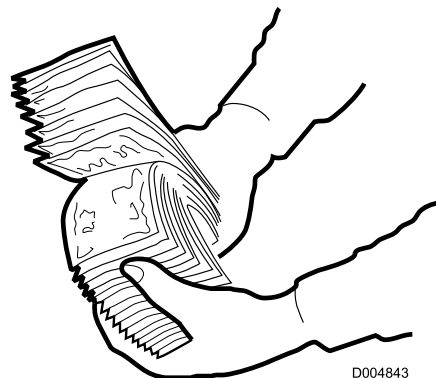
D004843

New, unused notes

1. Remove the band around each bundle of notes.
2. Separate the notes according to the following points:
   - Strike the bundle hard against the edge of a table or similar object.
   - Flip through each bundle of notes in both directions at both ends.

     or
   - Use a note counter. Select notes from the centre of the bundle. The notes in the centre are normally flat, the notes at the ends of the bundle are often cupped.
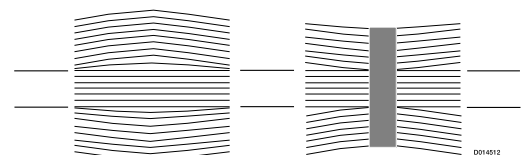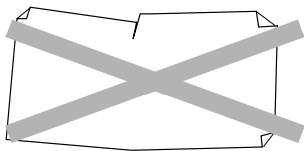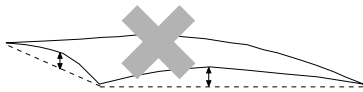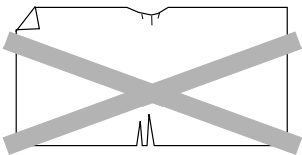
D014512

Unacceptable notes

Notes with the following irregularities are liable to
cause feeding problems:

- Joined by any means

- Having staples or pins

- Sticky surfaces

- Repaired with tape

- Torn, with tears exceeding 5 mm or with centre edged tears

- Having holes or missing sections

- Crumpled or crisp and crinkled

- Dog-eared, with a folded edge exceeding 5 mm

- Limp or moist

- Concave or deformed by prolonged storage

- Having strapping damage

- Combination of new and used notes in the same cassette may cause higher reject rates
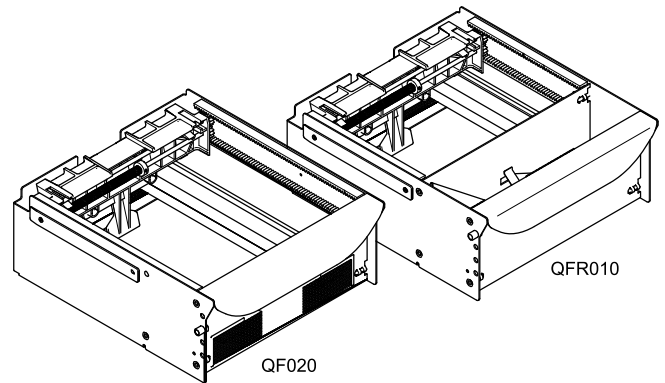
D014511

Used notes

Used Notes must not be limp and should be
reasonably clean.

1. Remove the band around each bunt

2. Remove foreign objects, e.g. pins

3. Remove torn and very worn notes.

4. Straighten any folded notes.

Loading and unloading notes

Removal of QFR010 and QF020 and collecting rejected notes

The same removal and loading procedures applies
to both cassettes

QFR010

QF020

The QFR010 and QF020 are not locked and can be removed at any time when the machine is not in use.
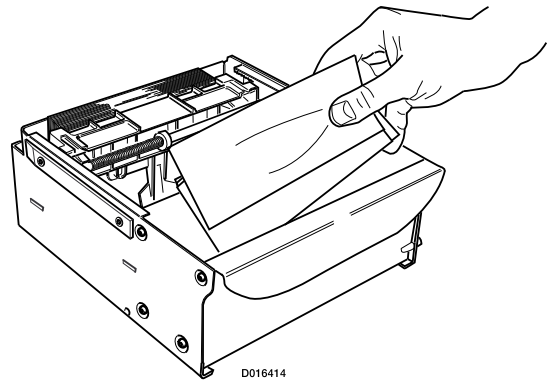
Before removing of the cassettes, use the appropriate command from the host, driver or application. If the tray should be removed while the MultiMech is in use the MultiMech will malfunction.

1. **Remove the QFR010 and QF020**
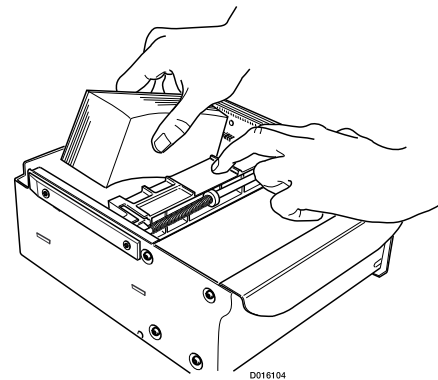
   Grip the handle and slide out the tray.
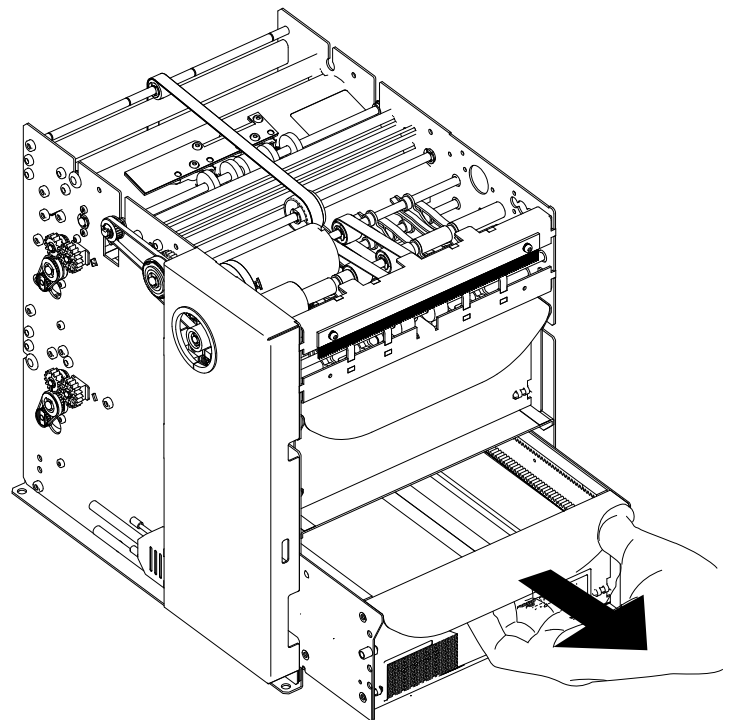
2. **Collect rejected notes from the reject compartment part of the QFR010 as shown**.


D016414

3. **Move the pusher plate**

   The pusher plate has to be moved to give space for the notes between the pusher plate and the feed opening. Pull the pusher plate towards the cassette handle. Only load notes that are of the correct denomination into the QFR010 and the QF020

D016104

4. **Prepare and load the notes**

	WARNING
⚠	Notes are sometimes thicker in certain parts.
	They can also be cupped in the bundle.
	If the notes are turned the same way, the pile will be unequal and the notes will be difficult to dispense

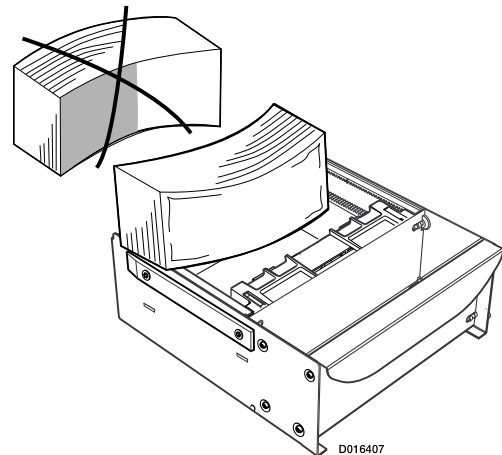D016408
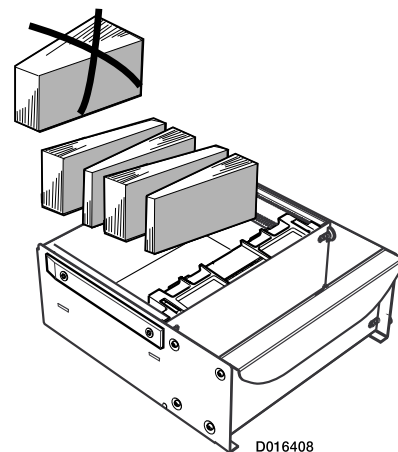
Loading and unloading notes

Slanting pile

- To avoid dispensing problems caused by a slanting pile, put the notes in neat bundles of 100-200 notes.

- Turn every other bundle to face the other way to make the pile the same height at both sides

D016406
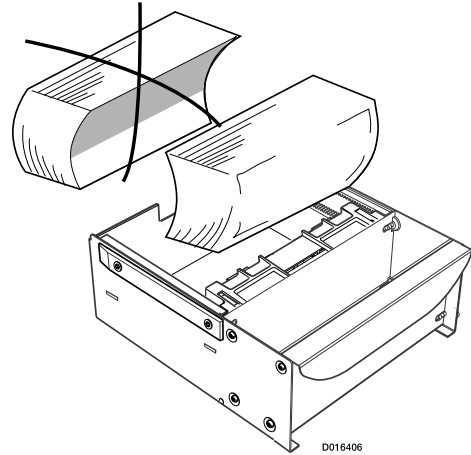
Concave bundle

- To avoid dispensing problems caused by cupped bundles, turn all the bundles with the cupped side towards the dispense opening. It will make dispensing of notes from the cassette easier.

D016407

Mixed slanting and concave piles

- To avoid dispensing problems caused by a slanting and cupped bundles, put the notes in neat bundles of 100-200 notes.

- Place the prepared bundles with the cupped side nearest and towards the dispense opening.

- Turn every other bundle to face the other way to make the pile the same height at both sides, as shown. It will make dispensing of notes from the QFR010 easier.

- Always place the bundles containing old notes into the cassette towards the cassette opening and the old bundles towards the pusher plate
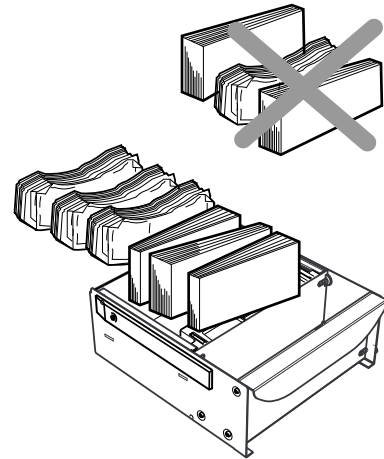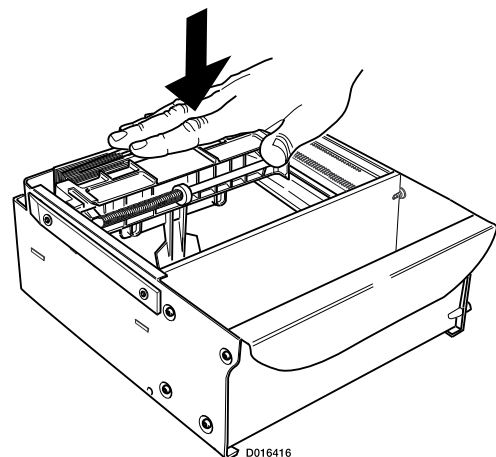
5. **Release the pusher plate**

   Release the pusher plate towards the note pile.
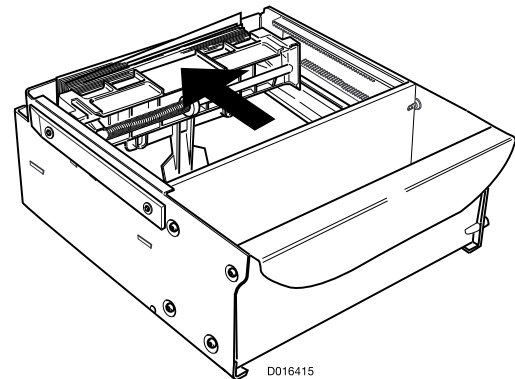
6. **Level the note pile**

   Compress the note pile slightly by hand. Single notes must not protrude from the bundle.

⚠	ATTENTION
	When loading the cassettes full, make sure that the pusher plate has a leeway of approx. 5 mm between the wall plate and the pusher plate

7. **Insert the cassettes**

Grip the handle and slide the cassettes into the machine. Make sure the they are fully inserted. The MultiMech is now ready to execute commands from host or application.
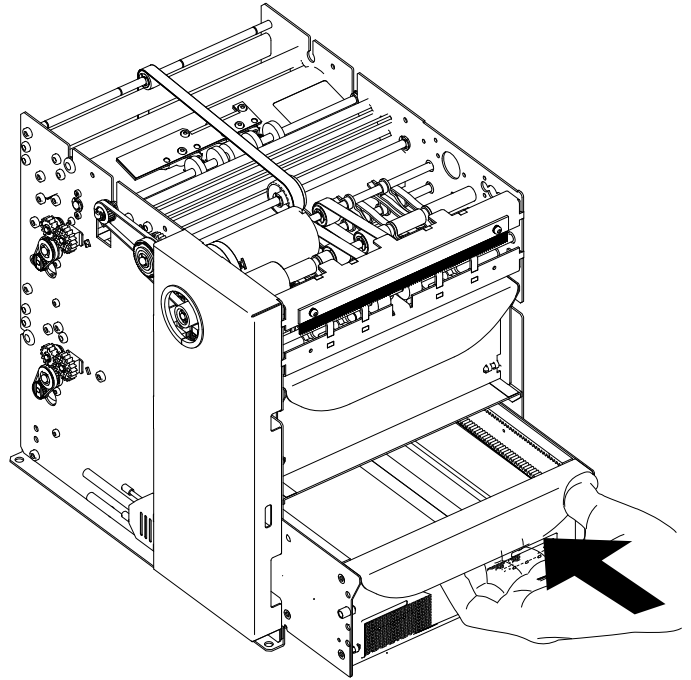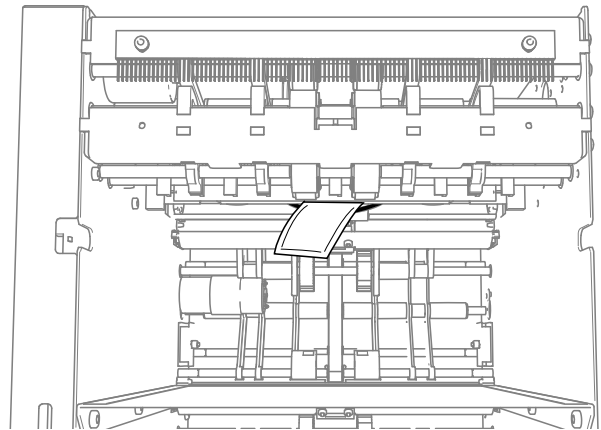
Trouble shooting

1. **Remove the cassettes**

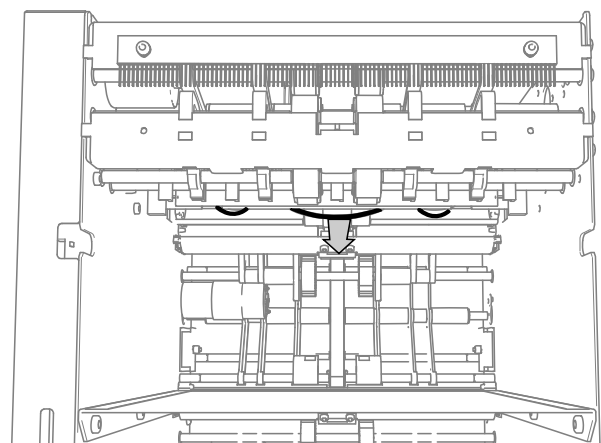|	WARNING
⚠	Always switch the power OFF before clearing jams. All notes removed from the mechanism must be handled according to local procedures.

2. **Remove notes in the note inlet area**

   Inspect the note inlet area and remove any jammed notes.

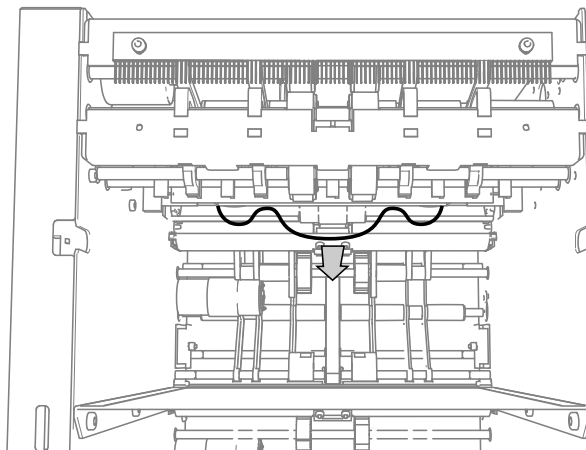3. **Release the note qualifier lid**

   Release the yellow handle inside the upper most QFR010 compartment by pulling it down
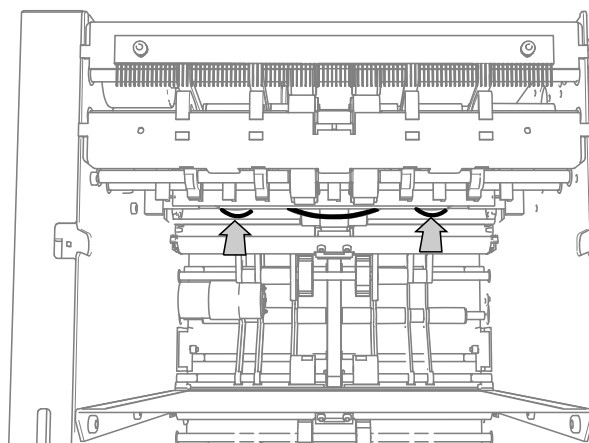
Trouble shooting

4. **Open the note qualifier lid**

   Fold the lid down by pulling the yellow handle.
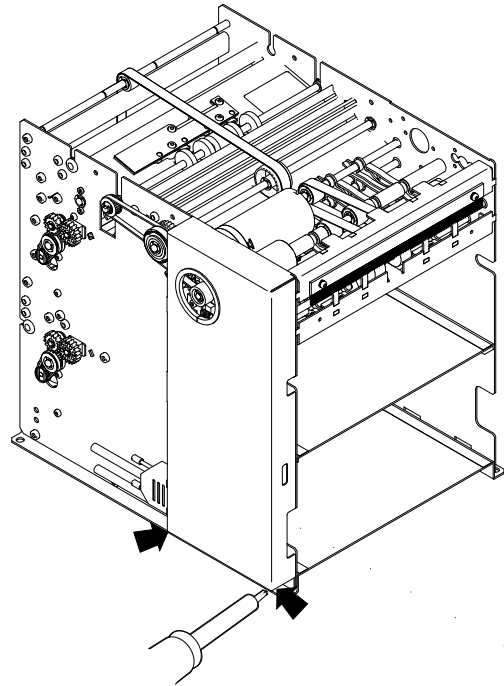
5. **Remove all jammed notes**

6. **Close the note qualifier lid**

   Make sure that you close the lid properly and fasten the yellow handle at both ends.
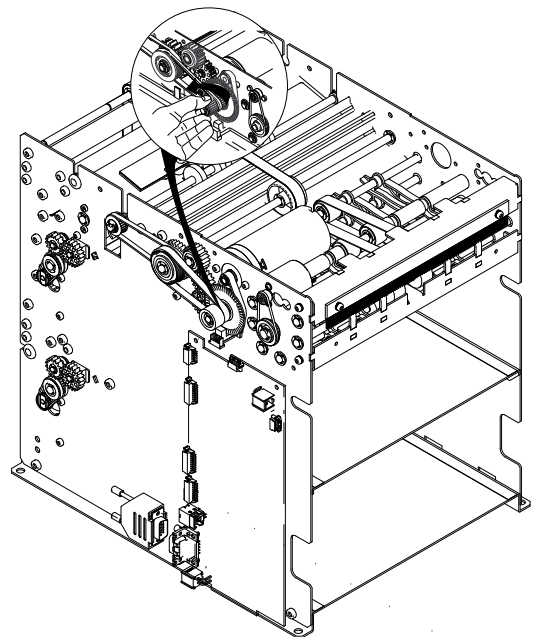
Clearing a note jam

7. **Remove the cover plate**

8. **Remove all visible jammed notes in the note transport by turning the cog wheel counter clockwise as shown**

⚠	**ATTENTION**
	If the trouble still remains call a service technician

The Talaris Commitment

Talaris are World Experts in cash management. Across the globe 2,300 personnel, with over 130 business partners deliver technology and solutions that provide security, productivity and innovation to our customers.

The company is committed to the highest ethical standards and compliance with legislation and to be a fair employer wherever we operate. As a responsible organisation we maintain a disciplined approach to our corporate governance and operate to the optimum professional standards in all aspects of our business.

Talaris will always seek to provide a safe and productive work environment where all employees can grow and be challenged. Wherever we operate our objective is to contribute actively to the community and the local environment. An intrinsic part of our business philosophy across our product and service offerings is to be consistently environmentally responsible and to continue to improve our performance across all environmental issues wherever possible.

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