
Appendix 4

2000 User Guide

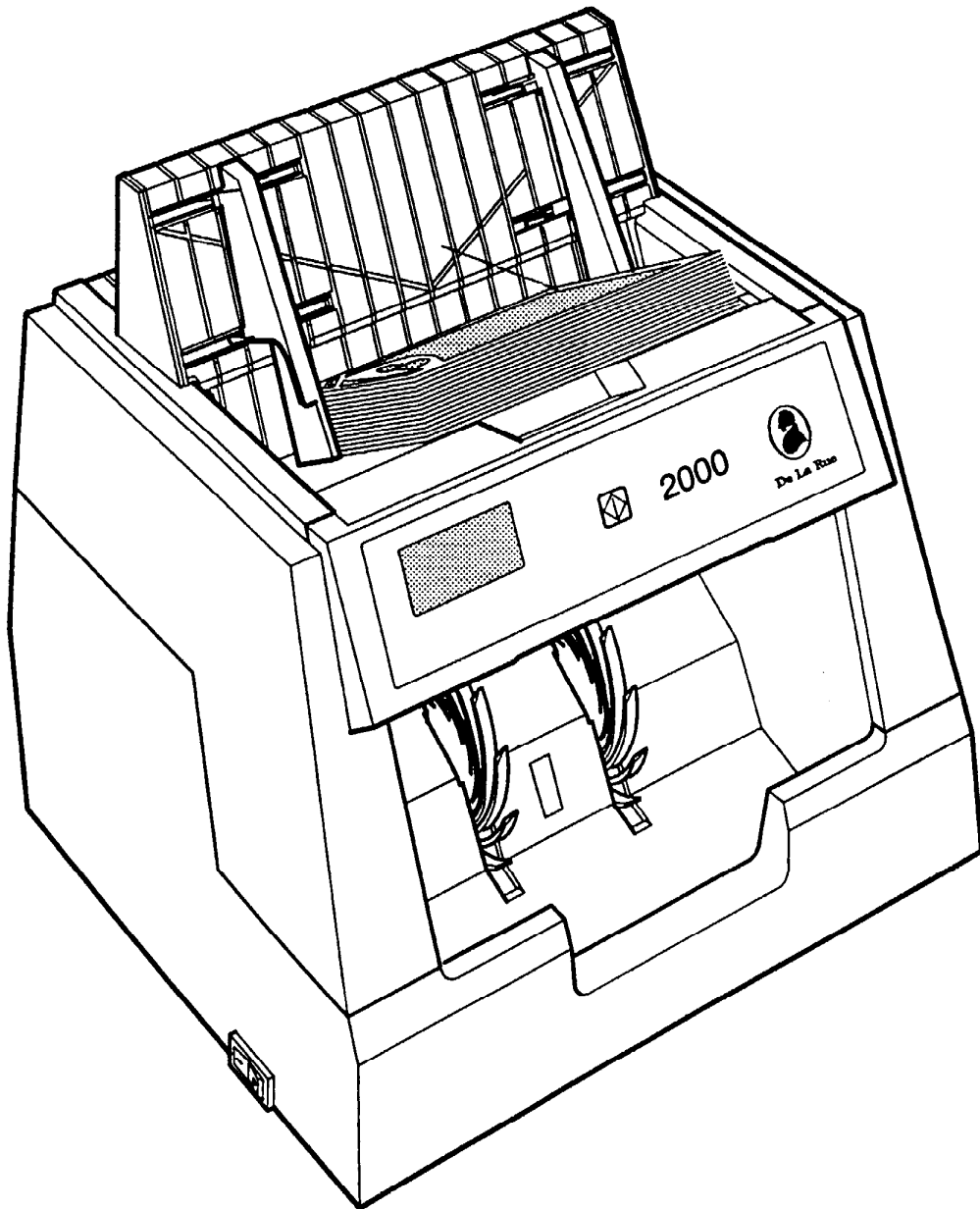


DeLaRue

user guide

2000

Banknote counting machine



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Declaration of conformity

Manufacturer & responsible person

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Details of product

Banknote counter

Model types

2000 Series

This product conforms to the essential requirements of:

Electromagnetic compatibility

Directive 89/336/EEC
Amended by 92/31/EEC

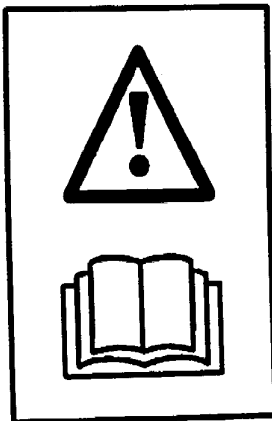
Low voltage electrical equipment (safety)

Directive 73/23/EEC
Amended 93/68/EEC

and is supported by the following applicable standards

EN 55 022
EN 50 082-1
EN 60 950
EN 29001 (ISO 9001)

Director of Engineering and Manufacturing
Authorised signatory on behalf of the responsible person



Warning

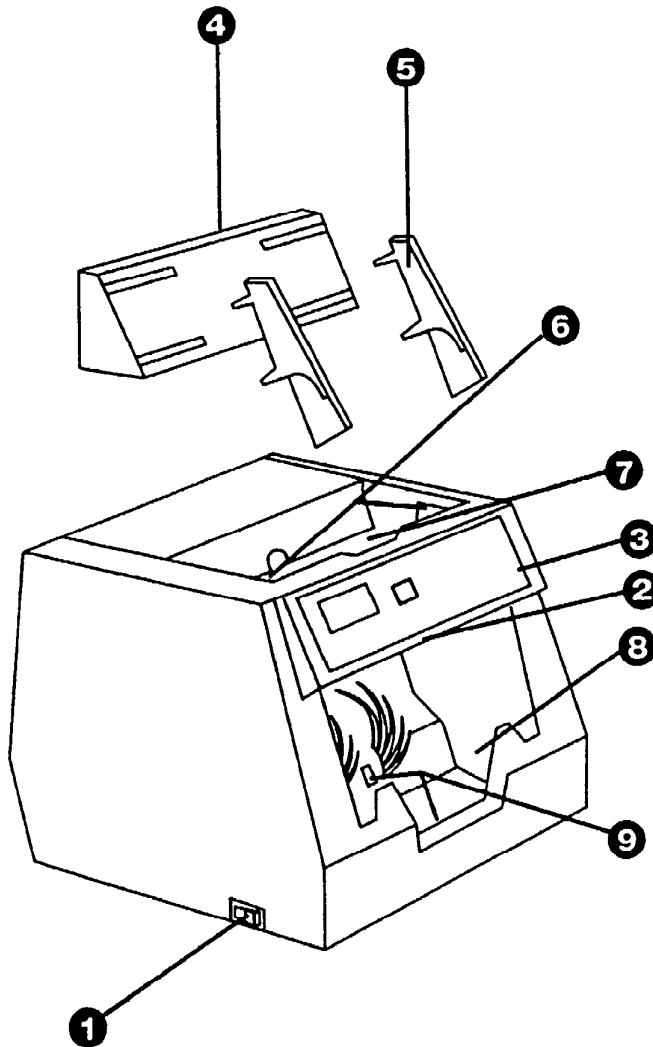
This machine has been designed for optimum safety for users. For your added protection please follow these guidelines.

Voltages above 42V are potentially dangerous.
Always handle mains-supplied equipment with caution.
Never open the machine when it is plugged in.

If the sensors are obscured the feed rollers will operate.
Always keep loose clothing and hair out of the feed hopper area when operating the machine.

overview of machine

The 2000 model is easy to use providing cost effective accurate note counting.

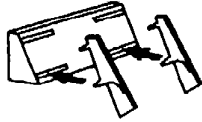


- 1 On / off switch**
- 2 Lifting point** hold under centre of control panel
- 3 Control panel** single button, 3 digit red LED display
- 4 Note guide support** } aligns notes to be counted
- 5 Note guides** }
- 6 Release buttons** for service/jam clearance/cleaning access
- 7 Hopper** notes are placed here for counting
- 8 Stacker** counted notes are collected here
- 9 Stacker sensor** for detecting counted notes

Introduction

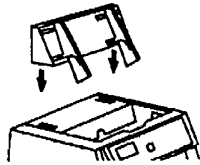
setting up

1



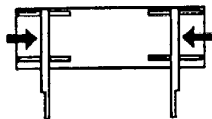
Attach the note guides to the note guide support.

2



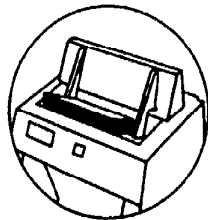
Clip the note guide support to the top of the machine.

3



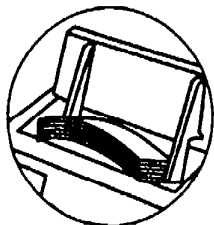
Notes must be positioned centrally, adjust the note guides to the length of the note to be counted allowing adequate clearance for notes to move freely.

4

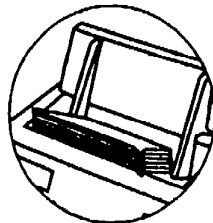


Notes to be counted should be placed in the hopper. They should be laid flat and stacked neatly together.

4a



bowed notes



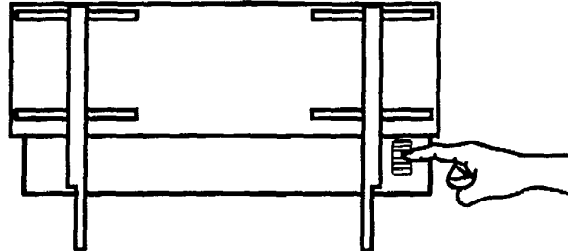
cornerfolded notes

When counting damaged or deformed notes, the following guidelines should be observed for optimum performance.

Place bowed notes with edges pointing down onto the hopper.

Cornerfolded notes should be sorted with the folds in the bottom right hand corner and the bundle placed face down onto the hopper.

5



Depending on the thickness of the notes being counted, you can adjust the feed gap where the notes enter the machine.

The control has eleven positions. Rotating the control downwards reduces the feedgap for thin notes, rotating upwards widens the gap for thick notes.

Please refer to the laminated card with the machine for advice on setting up the machine.

switching on



Connect the mains lead to the socket on the rear panel of the machine.

Plug the machine's power lead into a mains socket and switch on the mains supply.
Switch on the machine's on/off switch.

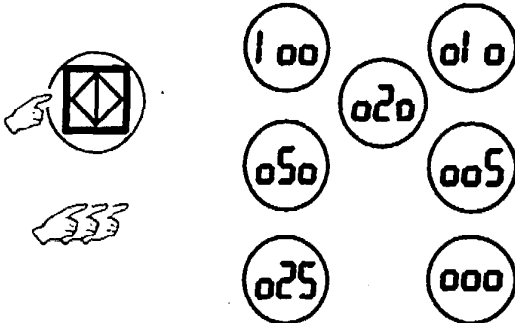


The machine will power up and complete a self test routine. The display will select a batch size of 100 notes and the autostart function will be activated.

Basic operating functions

batch mode

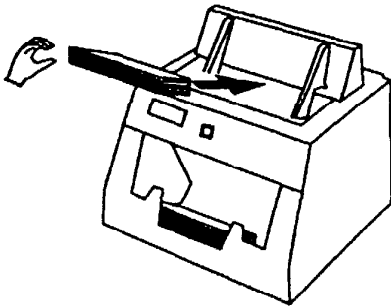
1



When the machine is switched ON it will show a '0'. Press the KEY and it will show the default batch size of 100. Use the key to step through the preset batch sizes e.g. 100, 050, 025, 020, 010, 005 and 000 (which is the continuous count mode).

Select the batch size required, release the KEY for 1–2 seconds and the display will show '0' and will be ready to count using the chosen batch size.

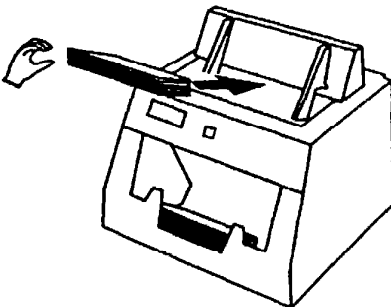
2



Place the notes to be counted onto the feed hopper. The machine will always auto start when notes are placed onto the feed hopper.

The machine will stop when the chosen batch size has been counted. Remove the notes from the stacker, the machine will count the next batch.

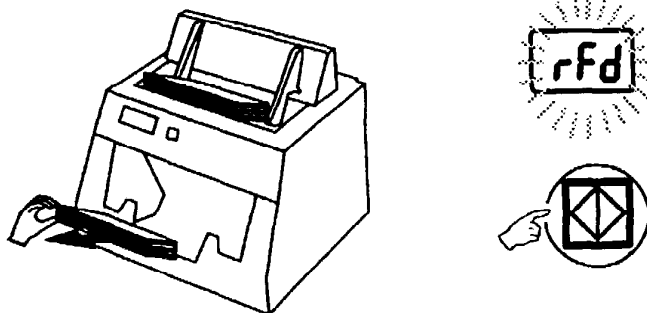
3



If there are not enough notes in the feed hopper to complete a batch, the total counted will flash on the count display to indicate this. Without removing the notes in the stacker, add more notes to the feed hopper and the machine will continue to count.

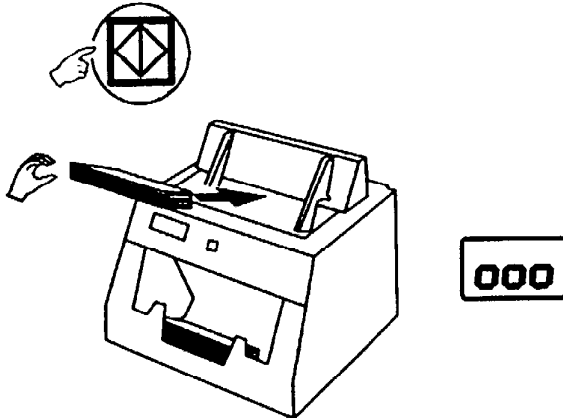
If the stacker is emptied before a batch is complete, the batch count will be cancelled when the feed hopper is loaded. The count will revert to '0'.

4



If the machine feeds a 'degraded note', it will show a 'rFd' or 'Chc' error message. Remove the notes from the stacker and return the notes to the feed hopper after checking them for damaged notes, if a 'Chc' message was displayed. Press the KEY to repeat the count. The display will revert to '0' to recommence the count.

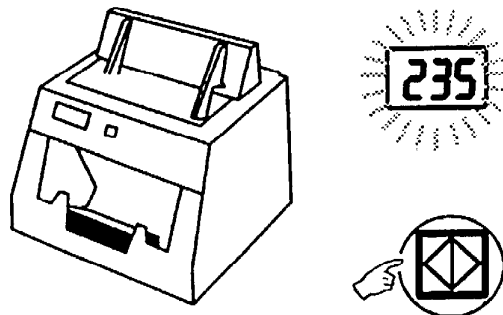
1



To choose continuous count mode, press the KEY until '000' is displayed. Release the key for 1–2 seconds and the display will show '0'.

Place the notes to be counted onto the feed hopper. The machine will start to count automatically.

2



If the KEY is pressed during counting, the machine will stop. Press the KEY to restart the count.

The machine will count until the feed hopper is empty. The display will flash. When more notes are added, they will be added onto the running total. The machine will also stop when the stacker is full. Remove the notes from the stacker to continue the count.

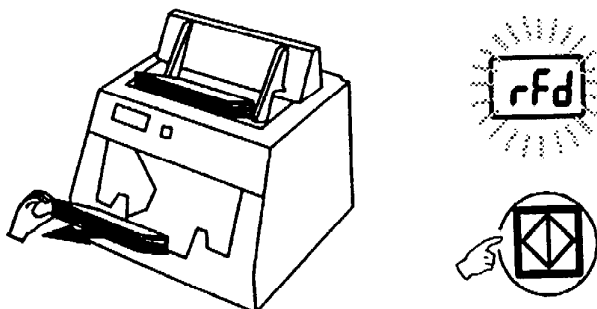
Press the KEY once to zero the count total.

3



The maximum number of notes that can be counted in continuous count mode is '999'. After the next note, the machine will show '0.0.0.' and flash. Press the KEY to clear the total and the count display will begin again at '0'.






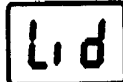



4



If the machine feeds a 'degraded note', it will show a 'rFd' or 'Chc' error message. Remove the notes from the stacker and return the notes to the feed hopper after checking them for damaged notes, if a 'Chc' message was displayed. Press the KEY to repeat the count. The display will revert to the running total prior to the bundle which caused the error.

Information

display messages

display	reason	solution
	The machine has stopped as a result of a badly damaged or degraded note.	Remove all of the notes from the stacker. Remove any notes with damage, tape or staples. Press the KEY and put notes onto the feed hopper to repeat the count.
	The machine has stopped as a result of a note handling problem.	Remove all the notes from the stacker. Press the KEY and put the notes onto the feed hopper to repeat the count.
	One of the sensors is obscured by dirt.	Clean the sensors in the hopper, stacker and the track sensors. Press the KEY.
	A note has been left in the machine.	Clear the feed hopper, stacker or note track of any notes. Press the KEY.
	Notes are jammed in the note transport.	Switch off the machine. Open the machine by pressing the release buttons. Remove the notes carefully. Close the machine lid. Switch the machine on.
	The top lid is not closed.	Press on both sides of the lid and ensure an audible click is heard. The lid is now closed. Press the KEY.
	A half or folded note has been detected in the machine.	Remove all notes from the stacker. Remove all half notes or unfold folded notes. Press the KEY and put notes onto the feed hopper to repeat the count.
	3 or more notes have passed through the machine together.	Remove all notes from the stacker. Press the KEY. Put the notes onto the feed hopper to repeat the count.
	A fault has been detected in the machine	Switch off the machine and contact your agent's service engineer.

factory settings / specifications

Mains voltage	nominally 110 to 240 VAC, 50/60 Hz
Power consumption	150W max.
Acoustic noise level	<78 dBA
Dimensions	
Width	285mm
Depth	250mm
Height	190mm
Weight	6kg
Document size range	190mm x 90mm maximum 100mm x 50mm minimum
Throughput rate	1000 notes per minute
Stacker capacity	100 notes
Feed hopper capacity	500 notes
LED display	3 digits
Batch size settings	100, 50, 25, 20, 10, 5, 0
Batch size default	100 notes
Feed gap adjuster arm setting	Position 4

routine maintenance

The various sensors in the machine may fail if they are obscured by dirt.

Switch the machine off, and open the lid.

Using a dry cloth, clean the hopper, stacker and track sensors and prism (1, 2 and 3).

