IDEAL 4850-95 EP / 5221-95 EP / 6550-95 EP Guillotine

Instruction Manual

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IDEAL

IDEAL 4850-95 EP

IDEAL 5221-95 EP

IDEAL 6550-95 EP

Betriebsanleitung

- Operating Instructions

Mode d'emploi

Gebruiksaanwijzing
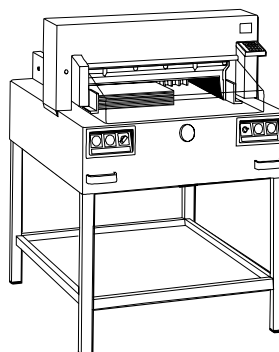
Manuale d'istruzione

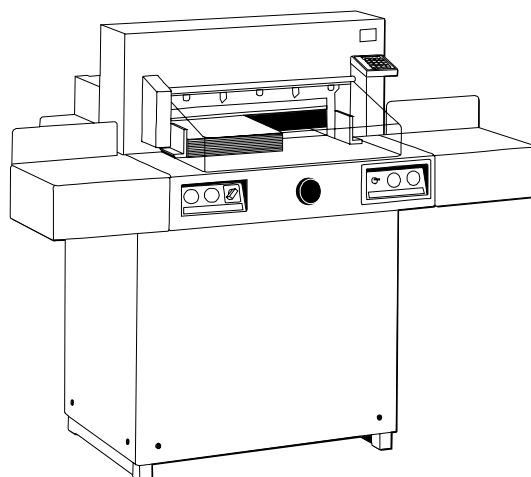Instrucciones para el uso

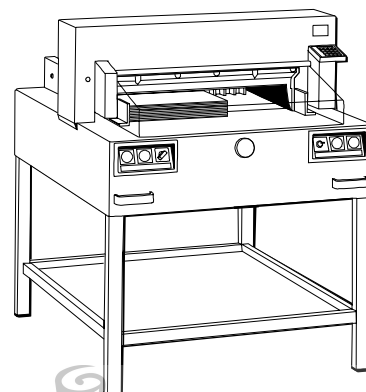### Table of contents

IDEAL 4850-95 EP

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<table>
<tr><td>

1. General

▲ **Danger!**
Non-compliance with the instructions may endanger persons.

● **Warning!**
Non-compliance with the instructions may cause damage to the machine.

This instruction manual helps you to learn the safe and comfortable operation with this machine. Before working with the machine please read this instruction carefully and consider the safety regulations.

The operating instructions must be always available for the operator.

Machine is proved by GS- and CE.

▲ **Danger**
Only instructed persons are allowed to operate the machine.
No operation by children.

01-01

02-01

All components which may endanger the operator are covered by a guard. **This machine is only designed for "one-man operation".** The cutting action which is dangerous to the operator is protected through a guard (1) and a two-handed control system (2)

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1.1 Application

The machine is designed for cutting reams of paper to a specified dimension. Dimension setting may be performed via keys or manually at the rotary control. The cutting takes place through the "two-handed control system".

● **Warning!**
The machine may only be used for cutting paper or similar materials. Clips etc. will damage the cutting blade.

▲ **Danger!**
The cutting of hard material or material which might splinter is forbidden.

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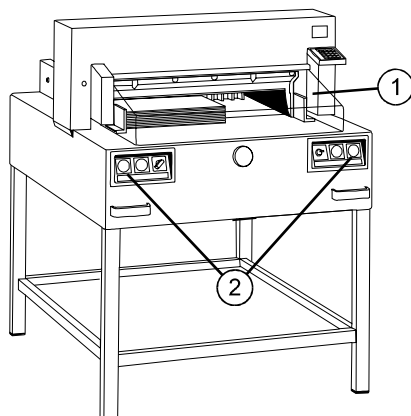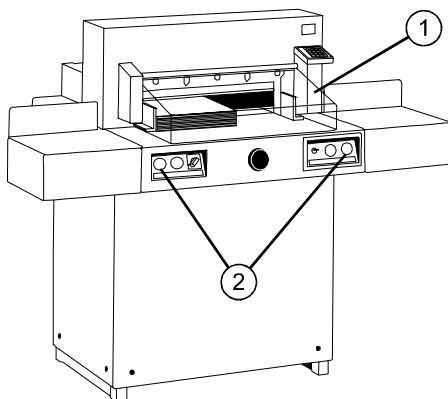
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2. Installation

The machine must be installed on a sturdy,dry and leveled floor.

▲ Danger!

- The machine must not be located outside.
- Do not use in the vicinity of inflammable liquids or gases.
- Do not use in humid environments.
- Protect mains cable against heat, oil and sharp edges.

Use 4 strong people to lift the machine from the pallet.

IDEAL 5221 - For further transportation
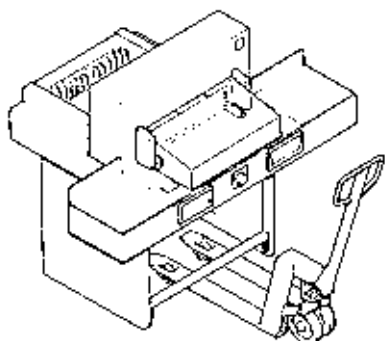
For further transportation it is possible to use a pallet truck. Wooden covers on front and back must be removed to transport with pallet truck.
For transport through narrow doors:
- Remove the wooden side covers.
- Remove machine from the base (4 screws).
- The machine can be transported on its side.
- Mount the machine on the base.
- Fix the side covers.

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2.1 Preparing for installation

IDEAL 5221

The machine will be delivered ready for operation.

As an option side tables, left and right are available. These should be mounted so that the surfaces are flush with the main table.

IDEAL 4850 and 6550

- Place the machine on the enclosed stand (8) and secure with the 4 screws.
- Place the shelf (9) in the stand.

2.2 Power supply

The name plate is located at the rear of the machine.

- Data stated on the rating plate
  - Voltage " V ",
  - Frequency "Hz",
  - Power consumption "A"
  must correspond to the values of the power supply unit.
- **Earth wire must be available**.
- Connect the machine with the mains.

Standard machines are factory-set as follows:
Voltage 220 - 240V (110V - 120V) 1 phase
Frequency 50Hz (60Hz)

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</table>
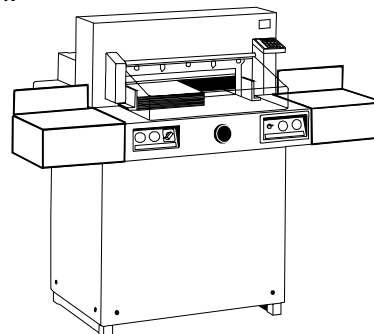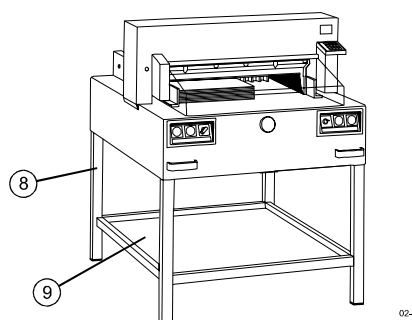
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3.   Operation

▲ **Danger!**
The machine may only be operated by persons who have read and understood the operating instructions and safety instructions.

▲ **Danger!**
Check safety devices are complete and function prior to starting the machine.

Checklist

- Machine panels:
  All panels must be mounted
- Cutting activation:
  Open the safety guard (1).
  The cutting mechanism starts through a "two-handed control system" (2). The cutting mechanism should only start if the guard is closed and the buttons of the two handed control system are pressed exactly at the same time.
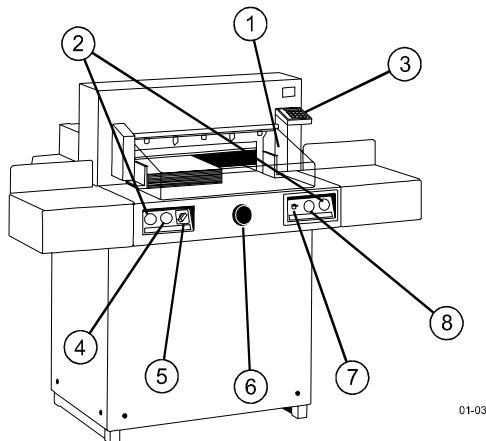- Guard didn't closed itself → otherwise replace the gasspring.

It is recommended to keep a check handbook.
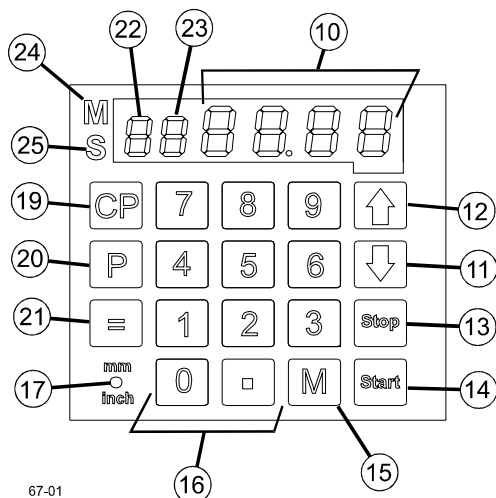
3.1 Operating elements

(1) Guard
(2) Two-hand activation
(3) Backgauge control
(4) Clamp returns
(5) Main switch
(6) Rotary control for backgauge setting
(7) Key switch
(8) Pre-clamping
(10) Dimensions display (cm or inch)
(11) - Programmable dimension
     - Eject function
(12) Programmable dimension
(13) Stop & Clear; annulation & correction
(14) Start
(15) Memory / Dimension repeat
(16) Numerical keypad
(17) Changeover cm/inch.
(19) Clear program
(20) select program
(21) Enter
(22) Program number
(23) Program step
(24) Display repeat cut
(25) Specified dimension

Pre-clamping:

Clamp returns:

Cutting sequence with automatic clamping:

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3.2 Start machine

01-04

67-02

- Main switch (5) to position "1".
- Insert the key (7) for the control panel and turn it to the right.
- Open the safety guard (1).
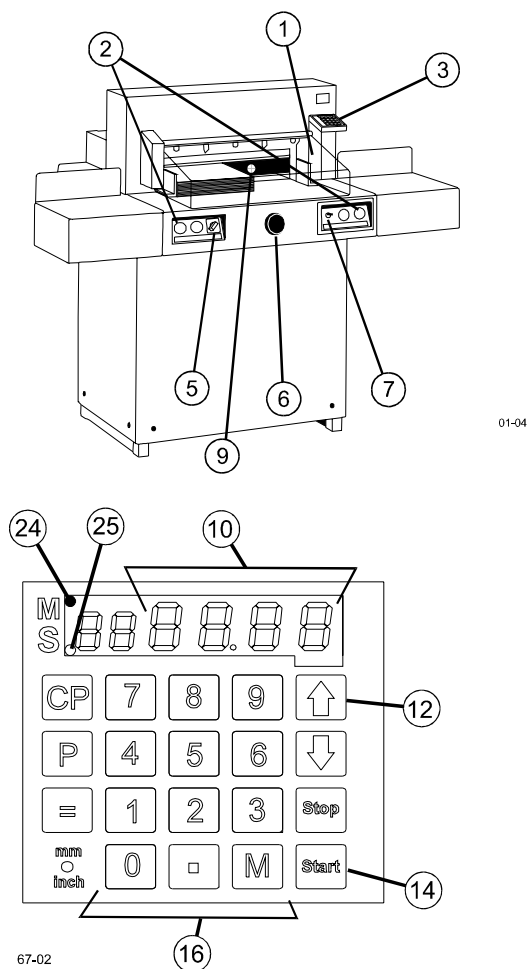- Press Start key (14). → Backgauge (9) moves to the rear and searches for the reference position, (10) measurement appears on the display.

Dimensions control - cutting to specified dimensions

- Enter dimension at the numerical keypad (16) → LED "S" (25) appears.
- Press Start key → dimension is approached, LED "S" disappears.
  Dimensions below 9 cm can only be approached with the Start key held pressed.
- Insert the paper and push it with the knocking up device to the backgauge.
- Release the cut.

Programming is described under point 3.3 "programming".

Cut according to markings

- Adjust the backgauge with the hand-wheel (6) to the back.
- Insert the paper and push it with the knocking up device to the backauge (9).
- Turn rotary control (6) to the right until the marking on the paper to be cut is below the cutting line indicator. The further the rotary control is turned to the right, the faster the backgauge moves. Return of the backgauge is only possible in quick motion by turning the rotary control to the left.
- Release the cut.

Eject function

If you press the key ↓ instead of Start , after insertion of the dimension the backgauge moves to the front for taking out the paper. After that it goes to the adjusted dimension of the figure field.

Repeat cutting

- Enter Start dimension at numerical keypad (16).
- Drive to dimension by activating the Start key.
- Push the paper to the backgauge (9).
- Press M key → LED „M" (24) is displayed.
- Enter repeat dimension.
- Press Start key after cutting activation → Backgauge moves to the front by the set amount of the repeat dimension entered.

Repeat dimension function completed

- Press M key → LED "M" (24) switch off.

Cutting activation

▲ **Danger!**
  - Run backgauge to the front for turning the paper stack.
  - Do not reach into the cutting area when the blade is in motion.
  - Do not interrupt the upward movement of the blade by performing switching procedures.
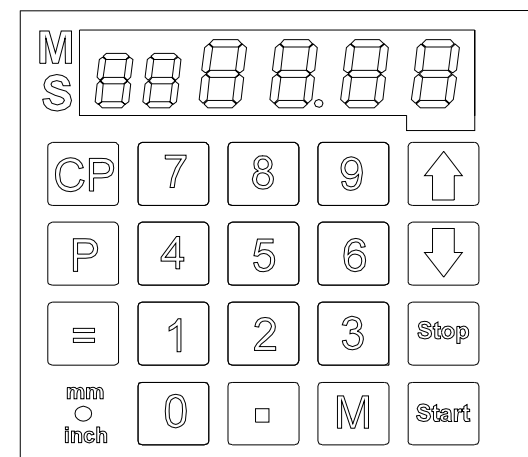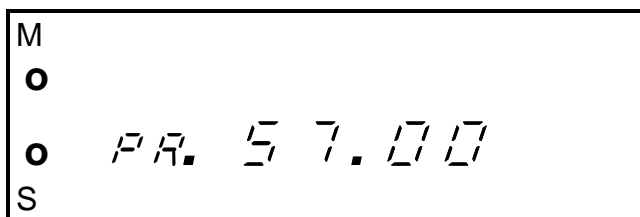
You can only release a cut, if the specified dimension was approached correctly. → The LED "S" on the display has to be off.
- Close the guard (1).
- Press both buttons of the two-hand activation (2) simultaneously and keep them depressed until the paper is completely cut.

Cutting stop or interruption

- Release one or both buttons of the two-hand control.

3.3 Programming

```
M
 O

 O   PR. 5 7.00

S
```


67-00

This control system enables you to store 9 programs each with 9 programmable steps. One step represents one measurement or max. 9 chain measurements. After entering the program numbers you are able to change between several program steps with the keys ⬇ and ⬆.
First figure in display = program number,
Second figure = program step.
Dimensions below 9 cm can only be approached with the [Start] key held pressed.
" UL " on the Display → the entered dimension is too low.
" OL " on the Display → the entered dimension is too high.
Each program step corresponds to one dimension. The indicated program step can be overwritten at any time. These programs remain stored when the machine is off. Should you change to another dimension unit all programmed measures are converted into the new unit (cm and inch).

Entering a program
- Press P → "PR" appears in the Display
- 1 ... 9 Enter program number 1....9.
  First figure in Display = program number.
- 1 ... 9 Enter dimension 1....9, or move the backgauge to the desired measurement with the rotary control.
- = store the dimension → next program step appears.
- 1 ... 9 Enter the next dimension.
- = store the dimension.
- P + [Stop] Escape the program mode.

Eject function
Pressing the keys = and ⬇ simultaneously for storing the dimension forces the backgauge first to move to the front pushing out the paper , and then move to the entered dimension on the display.

Programming of repeat cut dimension
- P press → "PR" appears in the Display
- 1 ... 9 Enter program number 1....9.
  First figure in display = program number
  Second figure = program step.
- ⬇ ... ⬆ Enter program step 1...9.
- 1 ... 9 Enter repeat cut dimension.
- M → N.1 Display shows one repeat cut.
- M → N.1 Display shows two repeat cuts.
- M → N.1 Display shows three repeat cuts.
- M → N .... Display shows ... repeat cuts.
Maximum nine repeat cuts can be entered. Entering the tenth repeat cut will delete the repeat cut and the display shows the actual program step.
- = store the dimension.

P + [Stop] Escape the program mode.

Cancel a program
- P press → "PR" appears in the display.
- 1 ... 9 enter program number 1....9.
- Key [CP] press two times.
Each program has to be cancelled separately. Single program steps can only be overwritten.

Deleting the last program step.
- Enter 0.
- Press =.

P + [Stop] Escape the program mode.

Working with programs

```
M
 O

 O      PA. 5 7.00

S
```

```
 M  S  [8 8 8 8.8 8]

 [CP] [7] [8] [9] [↑]

 [P]  [4] [5] [6] [↓]

 [=]  [1] [2] [3] [Stop]

 [mm
  ○
  inch] [0] [□] [M] [Start]
```
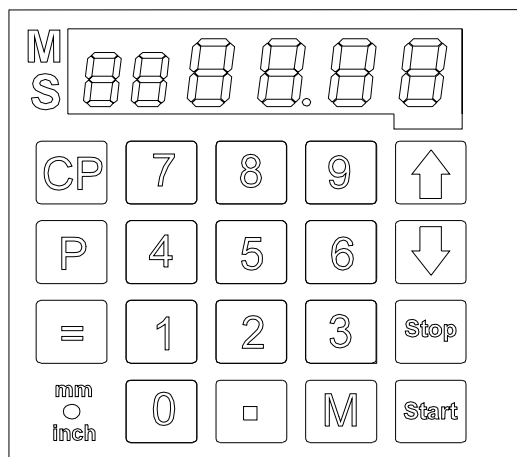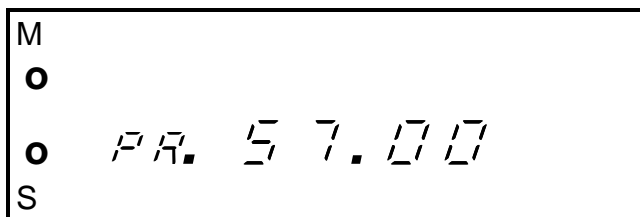
67-00

- Press ☐P → PA appears on the display.
- ☐1 ... ☐9 Enter Program number 1....9.
With the keys ☐↓ and ☐↑ you are able to change between several program steps.
With ☐Start the backgauge moves to the indicated dimension.
With ☐Stop the moving of the backgauge stops.
The cutting mechanism is described under point 3.2 "Start the Machine".

General

LED "S" blinks → the basic position will appear.
LED "S" is off → the actual dimension appears.
In the program mode the ejection of paper ☐↓ is not possible. The ejection of the paper has to be programmed.
After each cut pressing the key ☐Start the backgauge moves to the next dimension.

Escape the program mode

- Press ☐P → PA appears on the display.
- Press ☐Stop → Escape the program mode.

Program keys ☐↓ and ☐↑

By means of buttons ☐↑ and ☐↓ dimension at your choice can be reached.
- ☐P + ☐↑ resp. ☐↓ → PU resp. PO appears on the display.
- Insert the desired dimension.
- ☐= Store dimension.

Display in cm or inch

- Press ☐mm inch → Display changes between mm and Inch.

Adjust the eject-dimension

- ☐P + ☐M   ☐P + ☐M → EJ on display.
- Insert the desired dimension.
- ☐= Store dimension.

4. Maintenance

▲ Danger

- Maintenance work may only be performed by trained staff.
- Replacement of blade and cutting stick may only be performed when the main switch is switched off.
- Disconnect from the mains before starting any service work or before removing the cover.

Safety check

Perform a safety check every 5 years according to § 40 VBG 7i according to test specification EBA WN 105 18 61. The execution of this safety check must be confirmed on the test protocol. A test badge must be fixed to the rear of the machine.

4.1 Cutting stick replacement

If the last sheet of paper of a stack is not completely cut, the cutting depth must be adjusted.

Setting the cutting depth
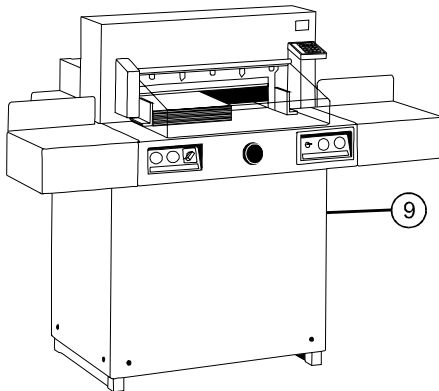
01-05

- Turn the screw (9) a half turn to right.
- Perform cutting test as described below
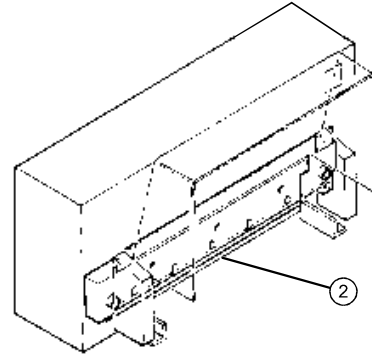
21-01

If the cutting stick (2) is very worn it must be turned.

● **Warning!**
Too deep cutting into the cutting stick shortens the life time of the blade.

Turning or replacing the cutting stick

- Turn the screw (9) to the left until it stop. Then a turn to the right.
- Dismount cutting stick (2).
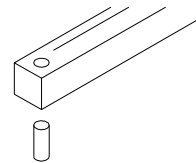
- Turn the cutting stick (the non-used side must be close to the blade) and plug it into the holding bolt.

The cutting stick can be used eight times.

Cutting test

- If the last sheet of paper of a stack is not cut over its total length, Turn the screw (9) a half turn to the right.
- Repeat this procedure until the paper is cut over its total length.

4.2 Blade replacement

Despite correctly set cutting depth and new cutting stick if it is not possible to achieve a clean cut ➞ sharpen or replace the blade.

Blade demounting

▲ **Danger!**
The blade is very sharp. Do not dismount or transport the blade without blade protection.

- Lower the knife by pressing both cut buttons. Keep one button pressed and turn off the main switch (5).

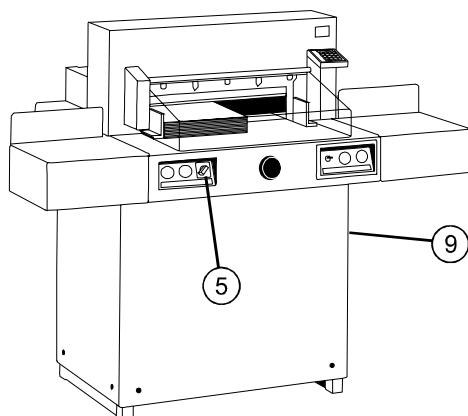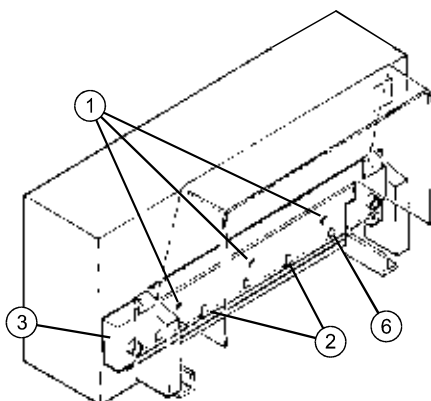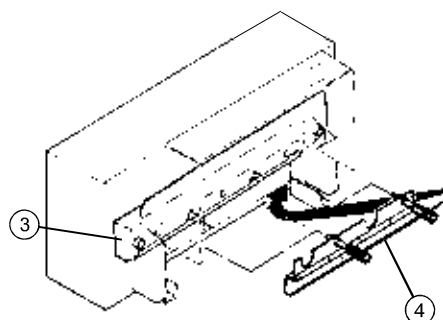- The eccentrics (1) are now exposed and should be turned to position 0 (special wrench found in tool set).
- For model 4850 the knife screw (6) must be removed.
- Remove the special wrench and turn on the main switch (5) until the knife returns to the home position.
- Remove the 2 knife screws (2).

- Put the knife changing tool (4) into place and fasten it to the knife.
- Screw out the remaining 2 respectively 3 blade screw.
- Loosen the grips of the knife changing tool (4) lightly.
- Take the knife downwards out of the machine.
- Change the cutting stick as described above.

Blade mounting

- Place the knife to be exchanged with the knife changing tool (4) mounted, into the knife carrier (3) up to the top and screw it into place with the grips.
- Lightly tighten 3 of the 5 knife screws (with washers).
- remove the knife changing tool
- Lightly tighten the remaining knife screws (with washers) (2).
- For model 4850 the knife screw (6) can only be inserted after the knife has been lowered.
- Remove all tools and distribute paper along the entire cutting length.
- Lower the knife by pressing both cut buttons. Keep one button pressed and turn off the main switch (5).
- The 3 eccentrics (1) should then be used to lower the blade until the paper is cut along the entire length of the knife (The knife must remain parallel to the cutting stick).
- If needed, the knife can be lowered using the knife depth adjustment screw (9) (Knife must be in upper position).
- For model 4850 tighten the knife screw (6).
- Turn main switch (5) to position I.
- The knife will return to the upper position and the knife screws should be tightened firmly.
- As described cut a stack of paper.

● **Warning!**
Blades may only be sharpened by specialists.

4.3 Maintenance cycle all 7 days
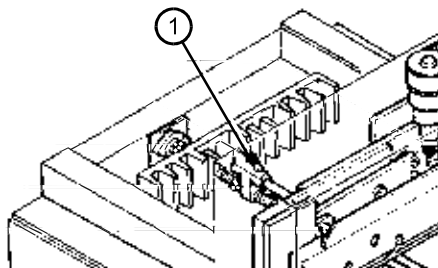
- Move backgauge to the front.
- Lubricate the grease nipple (1).

4.4 Maintenance cycle all 6 months

- Turn main switch to position 0.
- Remove the upper housing and the wooden front panel or the front housing.
- Remove paper debris
- Lubricate all grease nipples.
- Check the linkage parts (2) + (3) from motor to knife for wear.
- Reassemble the machine.

Lubricant and grease gun

- Roller bearing grease - all types..
- Grease dispenser found in tool set - remove plug and chain before filling.
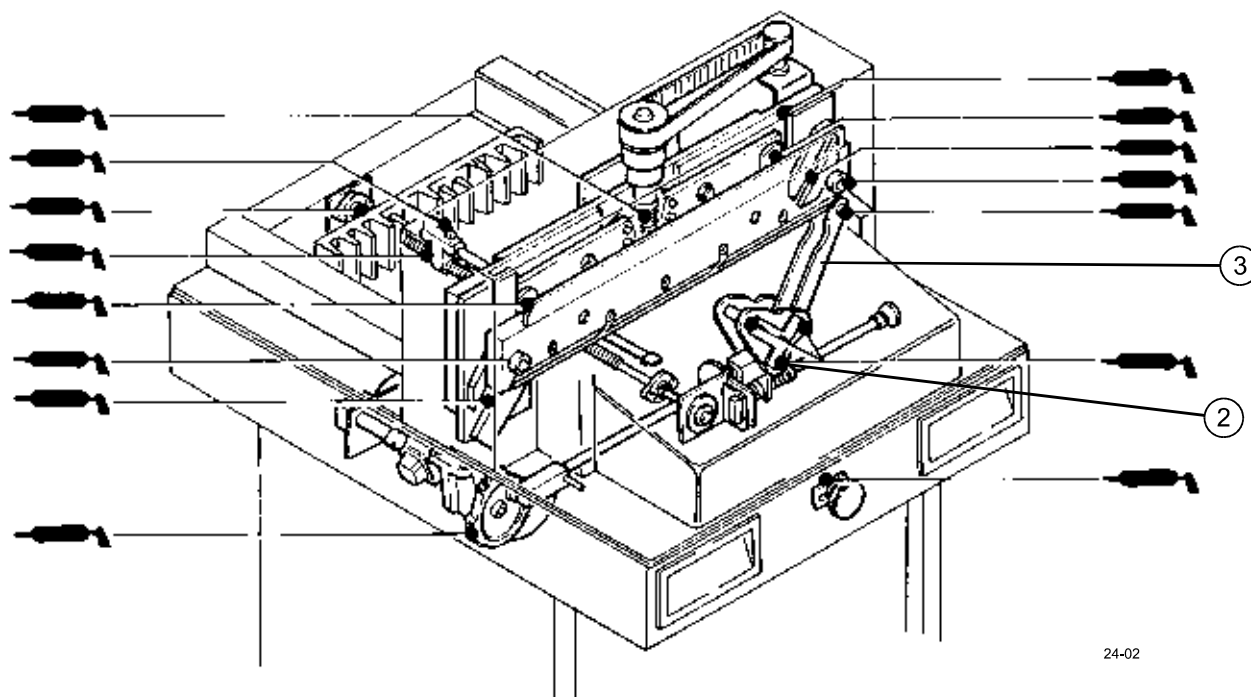
24-02

5. Trouble shooting

▲ **Danger!**
  Disconnect from the mains before starting
  any sevice work or before removing the
  cover.

5.1 Trouble shooting

01-07

Malfunction:
  Display illumination off.

  Cause:
  Power supply.

  Remedy:
  - Mains switch on.
  - Plug in mains plug.
  - Check main fuse.
  - Overload switch (9) on.

Malfunction:
  Cutting may not be activated.

  a) Cause:
  Dimension was not approached correctly.
  → LED "S" does not go off.

  Remedy:
  press ⟦Start⟧ once again.

  b) Cause:
  Safety check of the guard.

  Remedy:
  Open and close the guard.

  c) Cause:
  Measurement below 9,00 cm.

  Remedy:
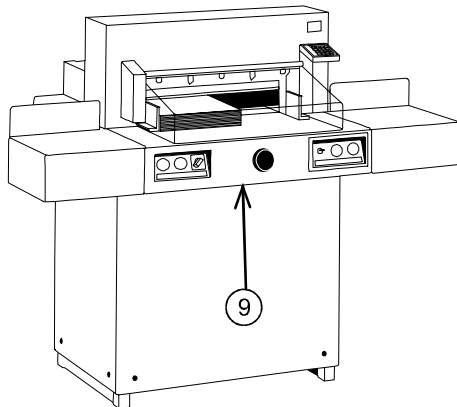 Press ⟦Start⟧ until the backgauge has
  reached the position.

  d) Cause:
  Backgauge not in the right position
  → $\Gamma\sqcup\sqcap$ on Display.

  Remedy:
  Please inform the technical service.

Malfunction:
  Knife stops even though motor still
  functions.

  Cause:
  The safety clutch was activated.

  Remedy:
  Contact your dealer.

Malfunction:
  The last sheet of paper in a stack is not
  completely cut.

  Remedy:
  Set cutting depth or turn resp. replace
  cutting stick. (see chapter "cutting stick
  replacement").

Malfunction:
  Poor cutting.

  Remedy:
  No clear cut despite the cutting depth is
  correctly set and the cutting stick replaced
  the cutting blade must be sharpened resp.
  replaced.

6.   Technical data

Sound level DIN 45635-1-27:   71dB(A)
The exact technical specifications can be found
on the technical specifications sticker on the
machine.

Guard
Interlock the control system:
Space between hood and table   < 20mm

7.   Accessories

● **Important!**
   Only fit accessories recommended by the
   manufacturer.

Knocking up device   9000 521

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Spare knife   9000 130
6 cutting sticks   9000 024
Side tables left and right   9000 530

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Spare knife   9000 021
Cutting sticks   9000-022

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Spare knife   9000 025
Cutting sticks   9000 026

EG-KONFORMITÄTSERKLÄRUNG
EC-declaration of conformity
Déclaration de conformité CE
Declaración CE de conformidad
Dichiarazione CE di conformità
EG-verklaring van overeenstemming
Declaraçao CE de conformidade
EF-overensstemmelseserklæring

- Hiermit erklären wir, daß die Bauart von
- Herewith we declare that
- Par la présente, nous déclarons que
- Por la presente, declaramos que la
- Si dichiara che il modello della
- Hiermede verklaren wij, dat de in de handel gebrachte machine
- Com a presente, declaramos que o modelo da
- Hermed erklæres, at produkttypen

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- folgenden einschlägigen Bestimmungen entspricht:
- complies with the following provisons applying to it:
- sont conformes aux dispositions pertinentes suivantes:
- satisface las disposiciones pertinentes siguientes:
- è conforme alle seguenti disposizioni pertinenti:
- voldoet aan de eisen van de in het vervolg genoemde bepalingen:
- está em conformidade com as disposições pertinentes, a saber:
- er i overensstemmelse med følgende bestemmelser:

EWG-RL 89/392;   EWG-RL 73/23;   EWG-RL 89/336

- Angewendete harmonisierte Normen insbesondere
- Applied harmonized standards in particular
- Normes harmonisée utilisées, notamment
- Normas armonizadas utilizadas particularmente
- Norme armonizzate applicate in particolare
- Gebruikte geharmoniseerde normen, in het bijzondere
- Normas harmonizadas utilizadas, em particular
- Harmoniserede standarder, der blev anvendt, i særdaleshed

EN60204;   prEN1010-1;   prEN1010-3;   EN55014-1;   EN55014-2;
EN6100-3-2;   EN6100-3-3;
EN292;   EN294   EN27779;   EN349;   DIN45635-27

Krug & Priester GmbH u. Co KG   19. 3. 2001
72336 Balingen, Germany   Datum   Wolfgang Priester
                                                                           - General Manager -