

IDEAL 4810-95 EP

IDEAL 4850-95 EP

IDEAL 5221-95 EP

IDEAL 6550-95 EP

Betriebsanleitung

- Operating Instructions

Mode d'emploi

Gebruiksaanwijzing

Manuale d'istruzione

Instrucciones de uso



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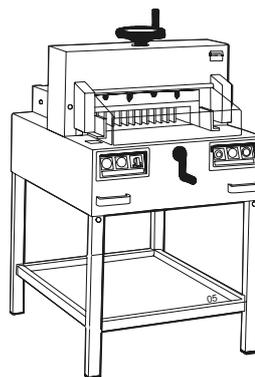
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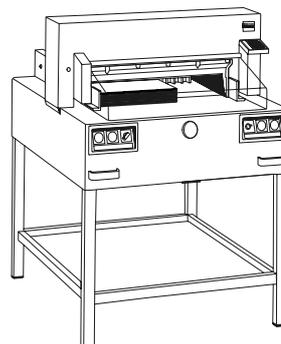
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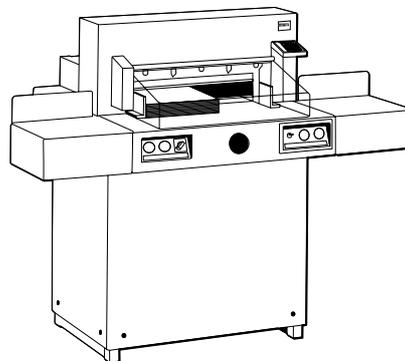
EG-declaration of conformity



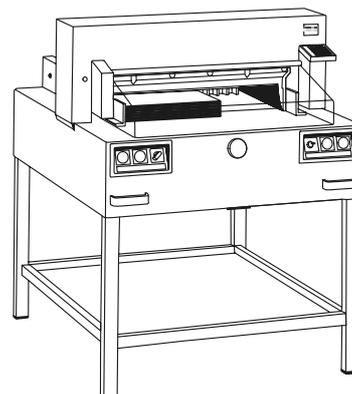
IDEAL 4810-95 EP



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1. General

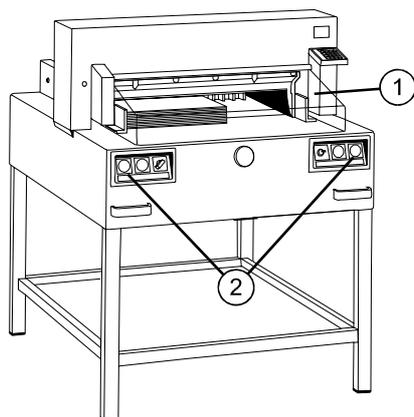
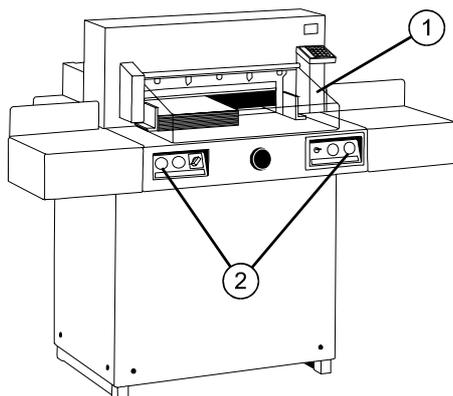
- ▲ **Danger!**
Non-compliance of the instructions may endanger persons.
- **Warning!**
Non-compliance of the instructions may cause damage to the machine.

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

The operating instructions must always be 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.



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

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.

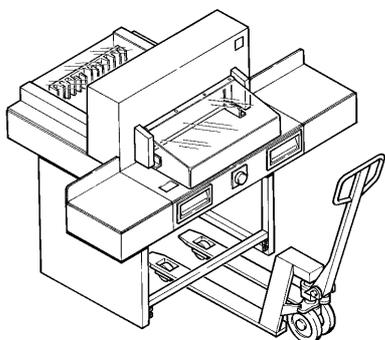
2. Installation

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

6 strong people are required to lift the machine from the pallet.



IDEAL 5221 - For further transportation

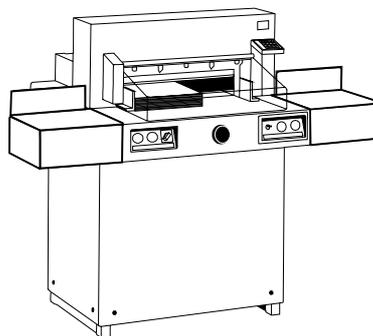
For further transportation it is possible to use a pallet truck. Wooden covers on front and back must be removed to transport with pallet truck. For transport through narrow doors:

- 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.

2.1 Preparing for Installation

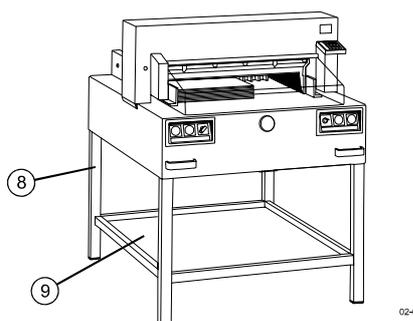
IDEAL 5221

The machine is delivered ready for operation.



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

IDEAL 4810, 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 manufacturer's plate is located at the rear of the machine.

- Data stated on the 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 to the mains.

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

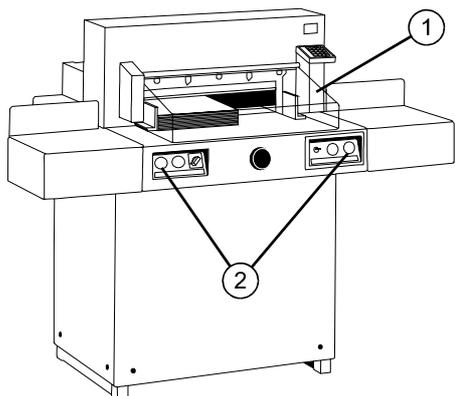
3. Operation

▲ Danger!

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

▲ Danger!

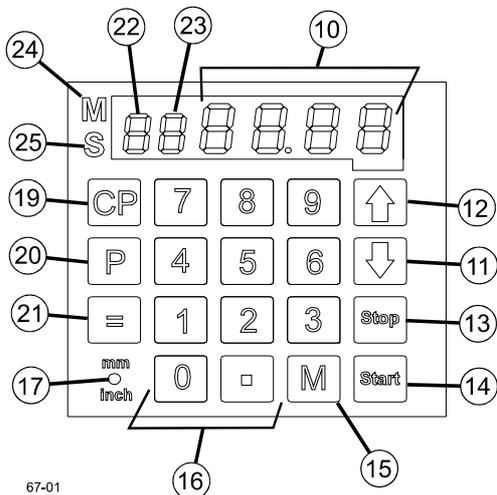
Check safety devices are complete and function prior to starting the machine and after replacing the blade.



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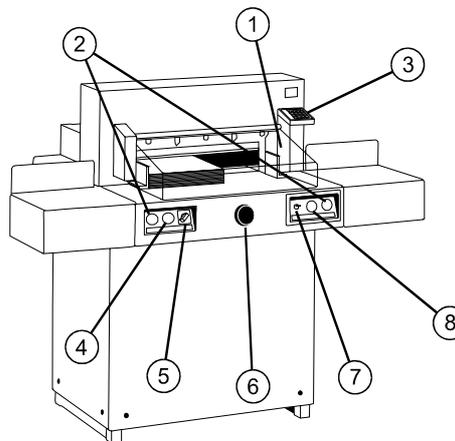
Checklist

- 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.
- Safety-guard didn't close itself → otherwise replace the gasspring.
It is recommended to keep a check handbook.

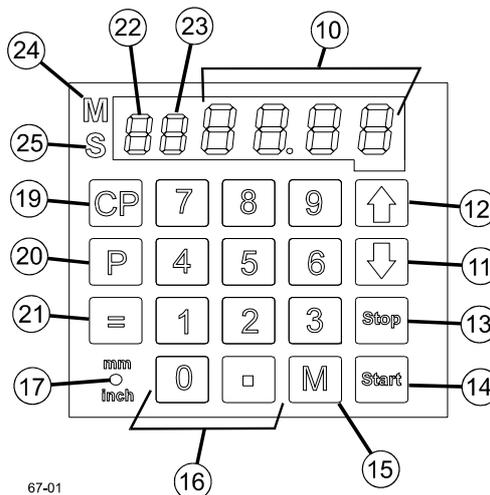


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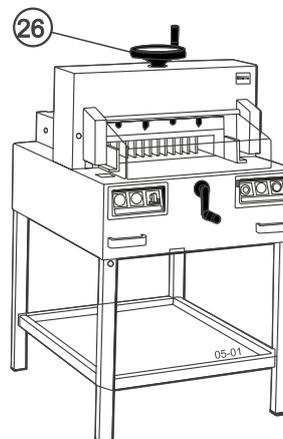
3.1 Operating elements



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05-01

IDEAL 4810

- (1) Safety-guard
- (2) Two-hand activation
- (3) Backgauge control
- (4) Clamp returns (not with IDEAL 4810)
- (5) Main switch
- (6) Rotary control for backgauge setting
- (7) Key switch
- (8) Pre-clamping (not with IDEAL 4810)
- (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
- (26) Manual clamp (IDEAL 4810)

Pre-clamping (not with IDEAL 4810)



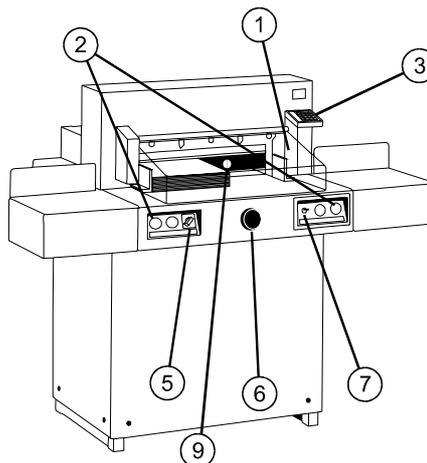
Clamp returns (not with IDEAL 4810)



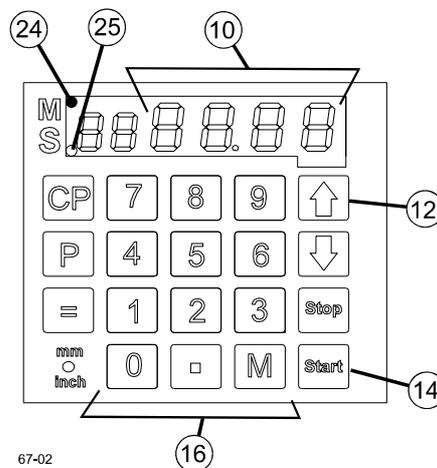
Cutting sequence with automatic clamping (not with IDEAL 4810)



3.2 Start - up

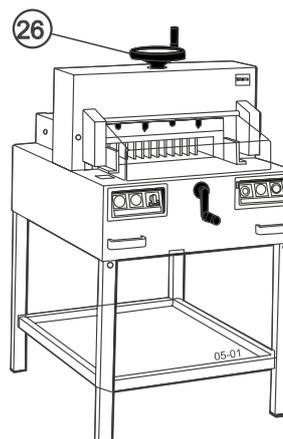


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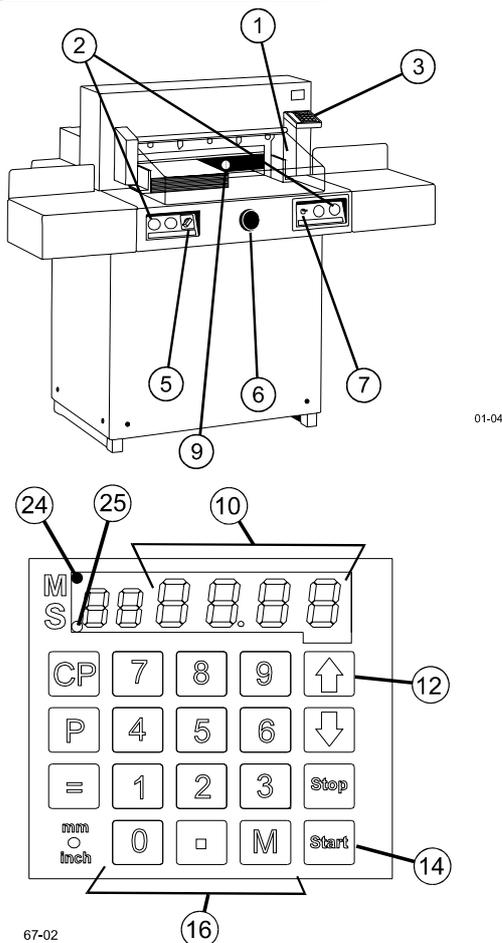
67-02

- Main switch (5) to position "1".
- Insert the key (7) for the control panel and turn to the right.
- Open the safety guard (1).



- **Warning!** Only IDEAL 4810
The clamp wheel (26) must be turned completely to the left before adjusting the backgauge.
- Press **Start** key (14).→ Backgauge (9) moves to the rear and searches for the reference position, (10) measurement appears on the display.

Cutting to specified dimensions



- Enter dimension on the display (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 block to the backgauge.
- Release the cut.

Programming is described under point 3.3 "programming".

Cut according to markings

- Position the backgauge with the hand-wheel (6) to the back.
- Insert the paper and push with the Knocking-up block to the backgauge (9).
- Turn rotary control (6) to the front until the marking on the paper to be cut is below the cutting line indicator. The more the rotary control is turned, 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.

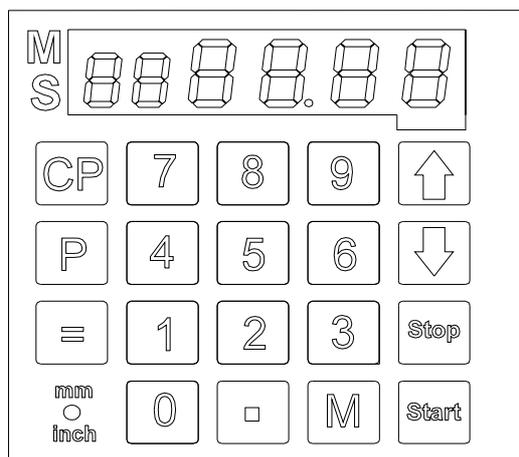
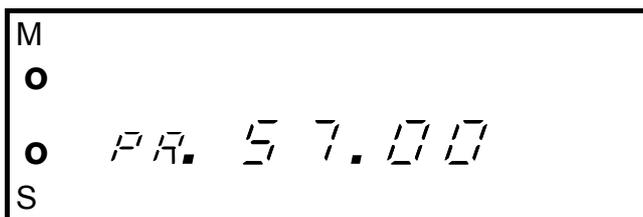
You can only release a cut, if the specified dimension was approached correctly. → The LED "S" on the display has to be off.

- Close the guard (1).
- For model IDEAL 4810:
Before every cut the clamp should be lowered by turning the hand wheel (26) to the right, and tightened with light pressure.
- Press both buttons of the two-hand activation (2) simultaneously and keep them pressed until the paper is completely cut.

Cutting stop or interruption

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

3.3 Programming



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 \downarrow and \uparrow .

First figure in display = program number, Second figure = program step.

Dimensions below 9 cm can only be approached with the **Start** key held pressed. " $\frac{L}{L}$ " on the Display \rightarrow the entered dimension is too low. " $\frac{H}{H}$ " on the Display \rightarrow 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** \rightarrow " $\frac{P}{P}$ " 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 \rightarrow 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 \downarrow 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 \rightarrow " $\frac{P}{P}$ " appears in the Display
- **1** ... **9** Enter program number 1....9.
First figure in display = program number
Second figure = program step.
- \downarrow ... \uparrow Enter program step 1...9.
- **1** ... **9** Enter repeat cut dimension.
- **M** \rightarrow $\frac{M}{M}$ / Display shows one repeat cut.
- **M** \rightarrow $\frac{M}{M}$ / Display shows two repeat cuts.
- **M** \rightarrow $\frac{M}{M}$ / Display shows three repeat cuts.
- **M** \rightarrow $\frac{M}{M}$ 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 \rightarrow " $\frac{P}{P}$ " 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.

Program keys \downarrow and \uparrow

By means of buttons \uparrow and \downarrow dimension at your choice can be reached.

- $\text{P} + \uparrow$ resp. $\downarrow \rightarrow PA$ resp. $P\downarrow$ appears on the display.
- Insert the desired dimension.
- M Store dimension.

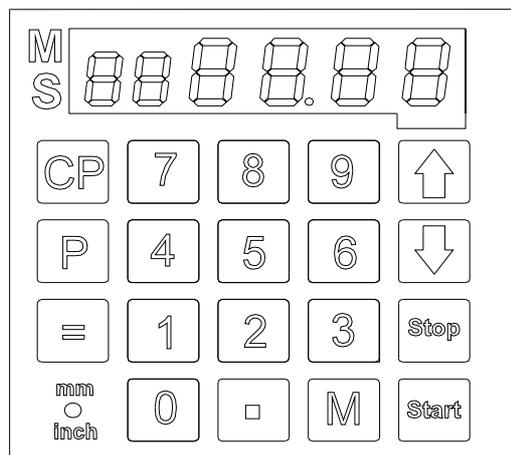
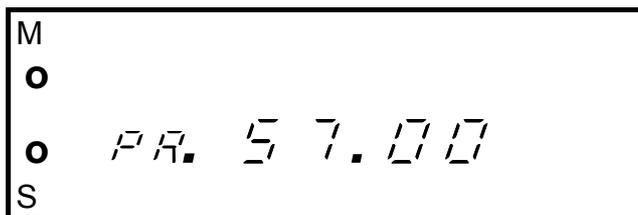
Display in cm or inch

- Press cm-inch \rightarrow Display changes between cm and Inch.

Adjust the eject-dimension

- $\text{P} + \text{M}$ $\text{P} + \text{M} \rightarrow E_{\text{mm}}$ on display.
- Insert the desired dimension.
- M Store dimension.

Working with programs



67-00

- Press $\text{P} \rightarrow PA$ appears on the display.
- $\uparrow \dots \downarrow$ Enter Program number 1...9. With the keys \downarrow and \uparrow 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 \rightarrow the basic position will appear.
 LED "S" is off \rightarrow the actual dimension appears.
 In the program mode the ejection of paper \downarrow 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 $\text{P} \rightarrow PA$ appears on the display.
- Press $\text{Stop} \rightarrow$ Escape the program mode.

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.

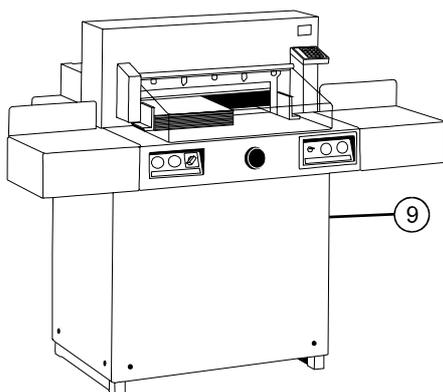
Safety check

According to § 40 VBG 7i a safety check, according to the safety stipulations, has to be made every 5 years by a service team authorised by our service department. The check must be attested on the test certificate. A corresponding test label must be visible and affixed to the machine. This safety check is required in Germany and we recommend it for all countries.

4.1 Cutting stick replacement

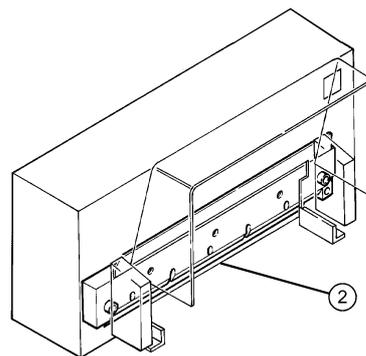
If the last sheet of paper of a stack is not completely cut, the cutting depth must be adjusted.

Setting the cutting depth



01-05

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



21-01

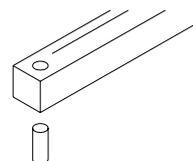
If the cutting stick (2) is very worn it must be turned.

● 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 stops. 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.

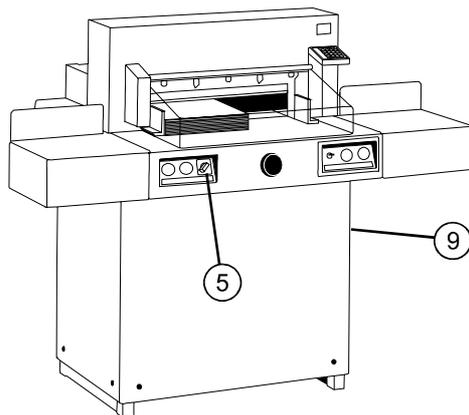
4.2 Blade replacement

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

Blade demounting

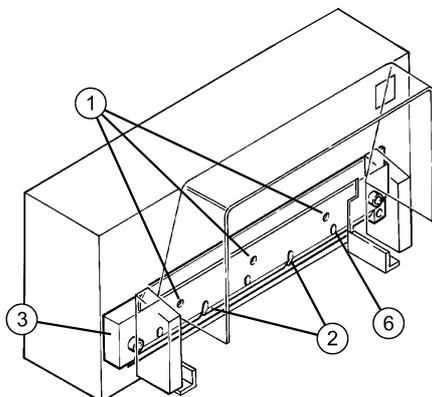
▲ Danger!

The blade is very sharp. Do not dismount or transport the blade without blade protection.



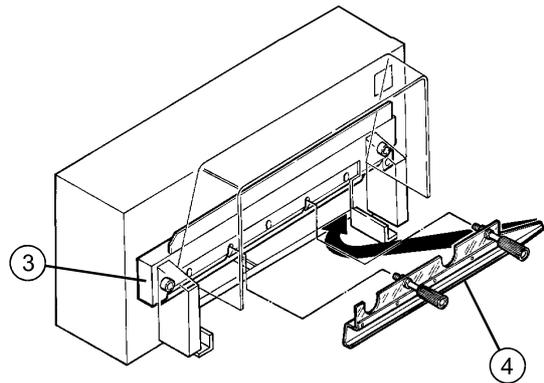
01-06

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



21-02

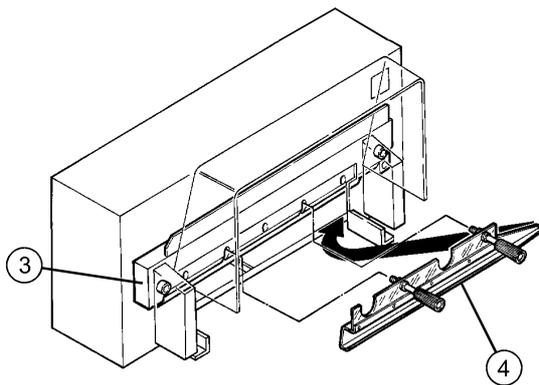
- The eccentrics (1) are now exposed and should be turned to position 0 (special wrench found in tool set).
- For model IDEAL 4810 and IDEAL 4850 the blade screw (6) must be removed.
- Remove the special wrench and turn on the main switch (5) until the blade returns to the home position.
- Remove the 2 blade screws (2).



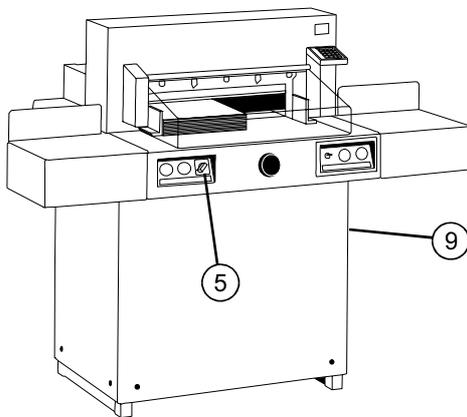
23-01

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

Blade mounting

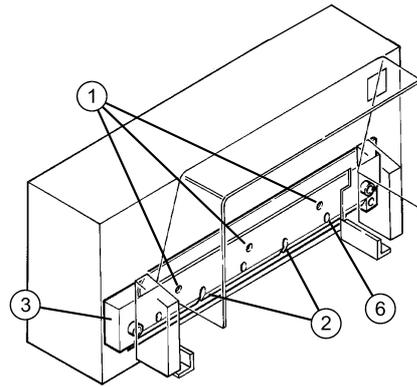


23-01



01-06

- Turn resp. replace cutting stick. Bring the blade carrier in the top position with the blade adjusting screw (9). → see "Cutting stick replacement".
- Place the blade to be exchanged with the blade changing tool (4) mounted, into the blade carrier (3) up to the top and screw it into place with the grips.
- Lightly tighten 3 of the 5 blade screws (with washers).
- remove the blade changing tool
- Lightly tighten the remaining blade screws (with washers) (2).
- For model IDEAL 4810 and IDEAL 4850 the blade screw (6) can only be inserted after the blade has been lowered.
- Remove all tools and distribute paper along the entire cutting length.
- Lower the blade by pressing both cut buttons. Keep one button pressed and turn off the main switch (5).



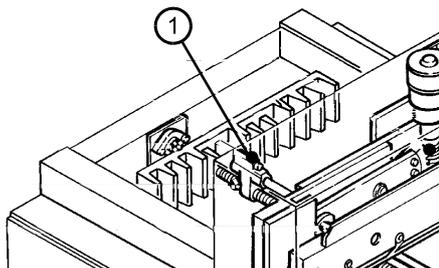
21-02

- The 3 eccentrics (1) should then be used to lower the blade until the paper is cut along the entire length of the blade (The blade must remain parallel to the cutting stick).
- If needed, the blade can be lowered using the blade depth adjustment screw (9) (Blade must be in upper position).
→ See "Cutting test".
- For model IDEAL 4810 and IDEAL 4850 tighten the blade screw (6).
- Turn main switch (5) to position I.
- The blade will return to the upper position and the blade 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



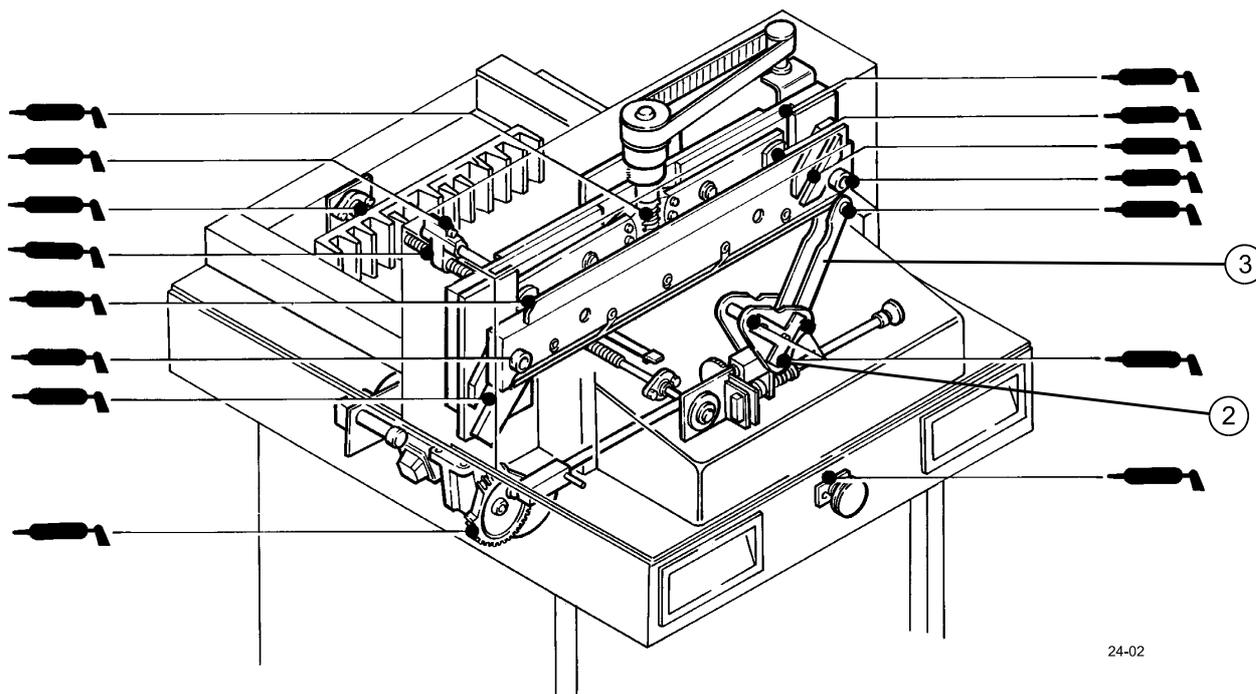
- Move backgauge to the front.
- Lubricate the grease nipple (1).

4.4 Maintenance cycle all 6 months

- Turn main switch to position 0.
- Disconnect from the mains.
- 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 blade 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.



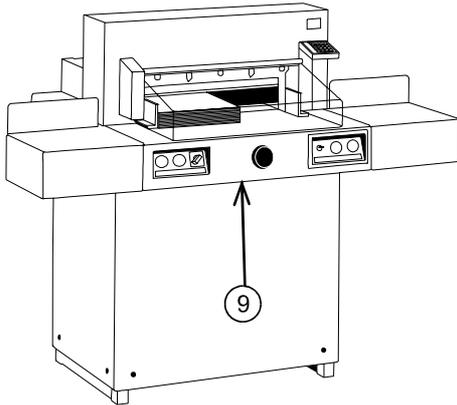
24-02

5. Trouble shooting

▲ Danger!

Disconnect from the mains before starting any service 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 on-site 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

→ **---** on Display.

Remedy:

Please inform the technical service.

Malfunction:

Blade 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:

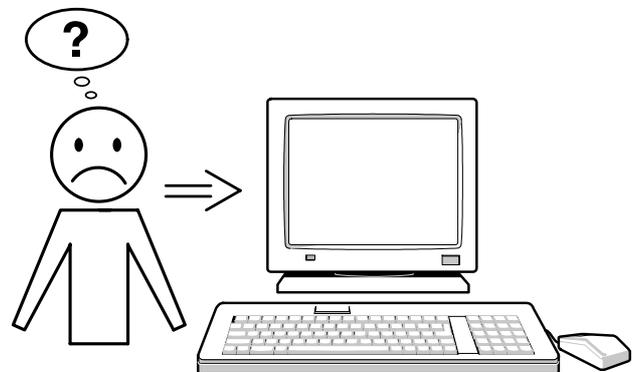
Set cutting depth or turn resp. replace cutting stick. (see chapter "cutting stick replacement").

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.



If you have further questions please contact your dealer or directly on the internet service@krug-priester.com

6. Technical data

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

Guard

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

7. Accessories

● **Important!**

Only fit accessories recommended by the manufacturer.

Not all of the accessories illustrated or described are included as standard delivery.

Knocking-up block 9000 521

IDEAL 4810-95 EP

Spare blade 9000 021
 Blade changing tool 9000 511
 Cutting sticks (6 pieces) 9000 022

IDEAL 4850-95 EP

Spare blade 9000 021
 Blade changing tool 9000 511
 Cutting sticks (6 pieces) 9000 022

IDEAL 5221-95 EP

Spare blade 9000 130
 Blade changing tool 9000 512
 Cutting sticks (6 pieces) 9000 024
 Side tables left and right 9000 530

IDEAL 6550-95 EP

Spare blade 9000 025
 Blade changing tool 9000 513
 Cutting sticks (6 pieces) 9000 026

IDEAL 4810-95 EP; IDEAL 4850-95 EP; IDEAL 5221-95 EP; IDEAL 6550-95 EP

EG-KONFORMITÄTSERKLÄRUNG
EC-declaration of conformity
Déclaration de conformité CE
Declaración CE de conformidad
Dichiarazione CE di conformità
EG-verklaring van overeenstemming
Declaração 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

4810-95 EP; 4850-95 EP; 5221-95 EP; 6550-95 EP

- **folgenden einschlägigen Bestimmungen entspricht:**
- complies with the following provisions 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:

EG98/37; EG73/23; EG89/336

- **Angewendete harmonisierte Normen insbesondere**
- Applied harmonized standards in particular
- Normes harmonisées 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;
EN61000-3-2; EN61000-3-3;
EN292; EN294 EN27779; EN349; DIN45635-27

Krug & Priester GmbH u. Co KG
72336 Balingen, Germany

12. 12. 2002
Datum

W. Priester
Wolfgang Priester
- General Manager -



