UCHIDA
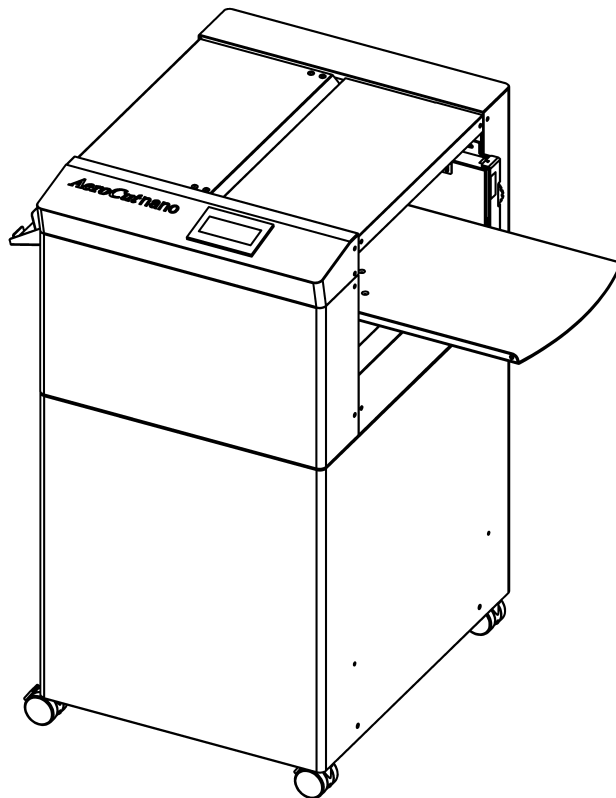
AeroCut nano

OPERATION MANUAL

UCHIDA YOKO CO., LTD., TOKYO, JAPAN

・Use machine only after reading the "Safety Instructions" given below carefully.

・These safety instructions are given to ensure that the machine will be used safely and properly and to prevent operators from sustaining harm and injuries.

Definition of Symbols and Notes

In this manual the following names and signs stand for possible dangers.

Danger

This symbol stands for immediate danger threatening the life and health of persons. Disregarding these instructions may cause severe damage to health and even serious injuries.

Caution

This symbol stands for an endangering situation that may occur. Disregarding these instructions may lead to slight injuries or damage to property.

Note

This symbol stands for notes, operational hints, and other useful information.

They are convenient for exploiting the machine's functional abilities.

SAFETY INSTRUCTIONS

Explanations of the illustrations used in the Safety Instructions are given as follows:

⚠ Danger

1. Don't open the cover of the equipment. There is a danger of receiving an injury or electric shock.
2. Don't touch any rotating part. There is a danger of receiving an injury.

⚠ Caution

1. Don't put a hand into the cover or a clearance between parts. There is a danger of receiving an injury.
2. Don't bring a hand, face, hair, sleeves of clothes and the like close to the rotating parts of the machine. There is a danger of receiving an injury.

---

3. Don't touch the blade point of the cutter. There is a danger of receiving an injury.

4. Turn off the power supply beforehand when setting the feed table. There is a danger of receiving an injury.

5. Turn off the power supply beforehand when removing paper scraps. There is a danger of receiving an injury.

6. Do not exceed the MAX level when stacking the paper. Exceeding it may cause a mechanical failure.

7. Turn off the power supply beforehand when starting maintenance or inspection. There is a danger of receiving an injury.

8. When you install a machine, please install to a place with no dust, and the place which is not influenced with a liquid. It becomes the cause of failure if the installation method is mistaken.

9. When you put a machine into operation, please change into the state where all covers were closed. If it works where a cover is opened, there is fear of an injury.

Before use

Read this "Operation Manual" carefully before use. In particular, be sure to read "Safety Instructions" (page 2 to page 3) to ensure that the machine will be used properly.

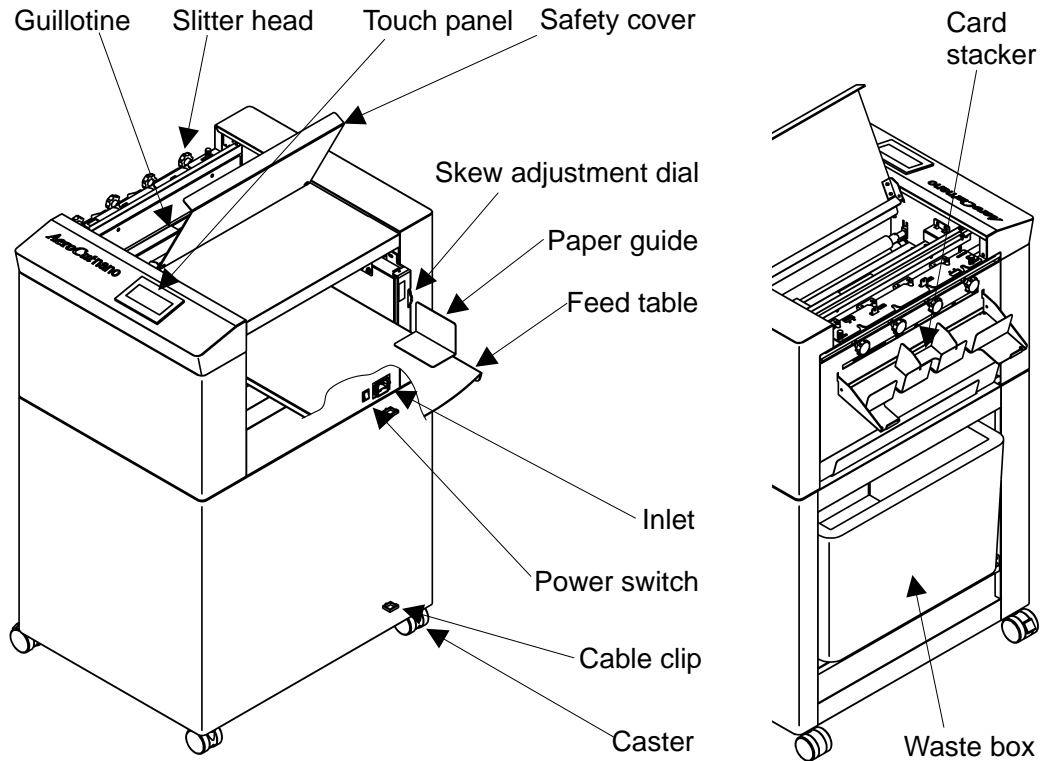Keep the manual at an appointed place with care so that it may be accessible whenever necessary.

The specifications of this product are subject to change for improvement. Therefore, don't mistake the "Operation Manual" of one product of the same model for that of another because descriptions in the "Operation Manual" of products of the same model may differ.
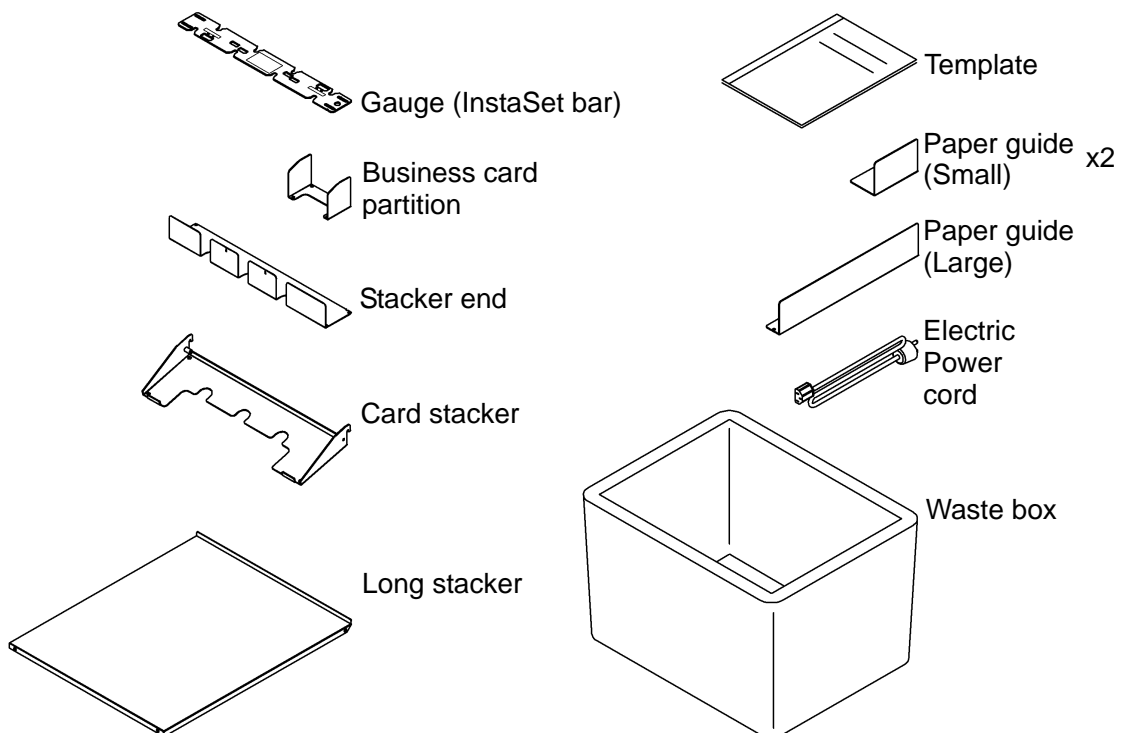
Contents

1   Introduction

1.1 Names of parts

Guillotine   Slitter head   Touch panel   Safety cover

Card stacker

Skew adjustment dial

Paper guide

Feed table

Inlet

Power switch

Cable clip

Caster

Waste box

1.2 Accessories

Gauge (InstaSet bar)

Business card partition

Stacker end

Card stacker

Long stacker

Template

Paper guide (Small) x2

Paper guide (Large)

Electric Power cord

Waste box

1.3 Touch panel

Home screen

Clear ☞ Page 13

Quantity ☞ Page 9

Manual control ☞ Page 23

PRESET ☞ Page 18

Cutmark ☞ Page 9

MANUSET ☞ Page 19

START ☞ Page 13

STOP ☞ Page 13

PRESET	CLR	Qty	MANUAL
MANUSET	0/	0	C/M ON
START	JOB No. 1		STOP

END ☞ Page 13
JOB ☞ Page 22

MANUSET screen

	19.000	0.500	O K
0.750 →	2.000	0.250	SAVE
			8 RETURN
0.300 ↔			

SAVE ☞ Page 19
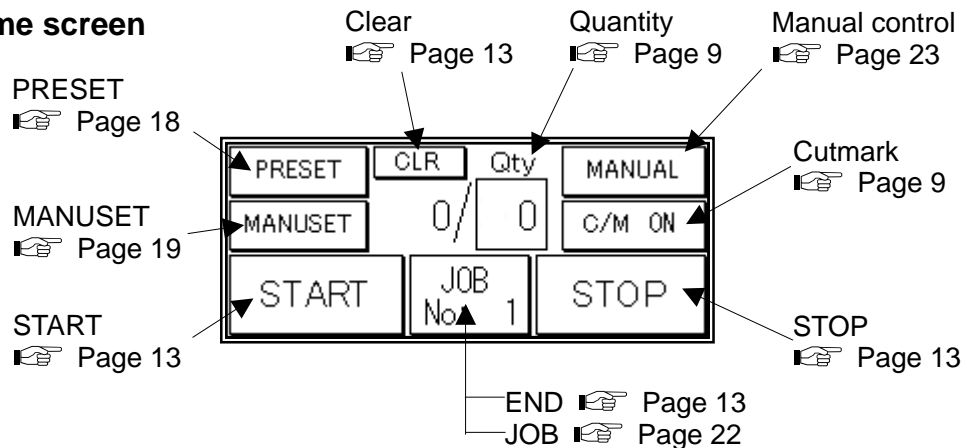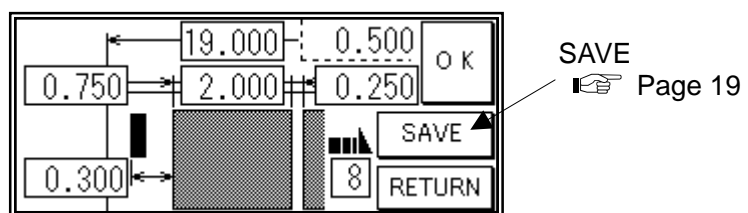
Manual control screen

Inching ☞ Page 23

ADJUST ☞ Page 17

SPEED ☞ Page 15

BLOW ☞ Page 16

Double feed ☞ Page 16

SPEED	<	>	CUTTER
LONG BLOW	ADJUST		↑ TABLE
D FEED HIGH	PAPER FEED WORK TIME 3.0		↓ TABLE
			RETURN

CUTTER (Guillotine) ☞ Page 23

TABLE ☞ Page 23

PAPER FEED WORK TIME ☞ Page 16
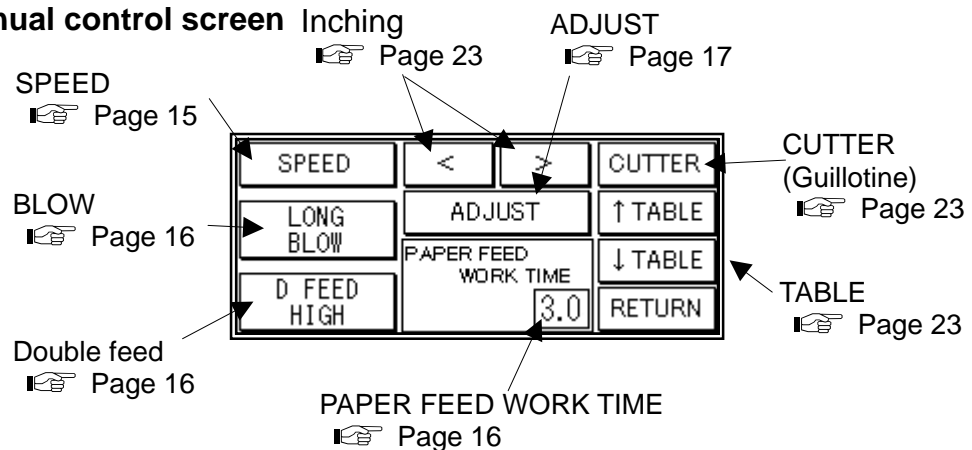
1.4 Paper weight / quality

Use suitable paper stocks which weight is
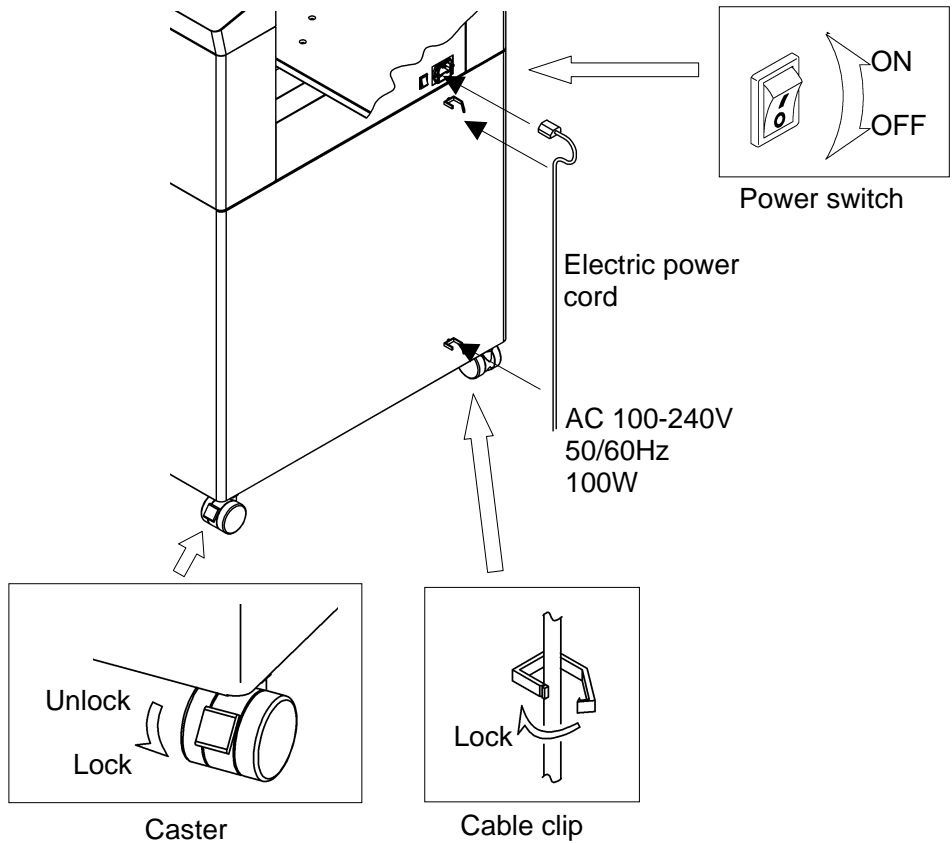
32 lbs (Bond) – 130 lbs (Cover stock)[120-350g/㎡].

These paper stocks are not suitable in use.

・Papers that has heavily electric static charged.　It may cause miss-feed, double feed or paper jam.

・Papers that are more than 0.125" curled or waved.　It may cause miss-feed, double feed or paper jam.

・Papers that have ink or toner not fused properly.　It may cause contaminating the work and the machine.

・Papers that are too slippery.　It may cause miss-feed or inaccurate results.

・Prints that are shrank, stretched or skewed inconsistently.　It may cause inaccurate results.

2 Operating instructions
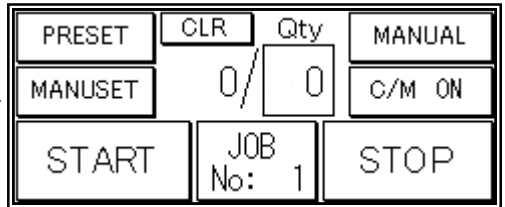
2.1 Lock a caster brake

2.2 Turning the power on

Power switch

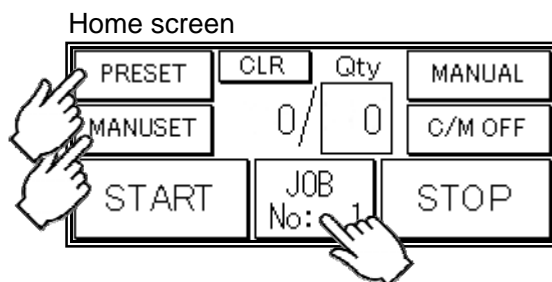Electric power cord
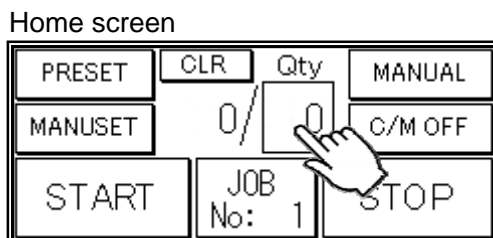
AC 100-240V
50/60Hz
100W

Unlock

Lock

Caster

Lock

Cable clip

Power on

Opening screen

Home screen

UCHIDA *AeroCut nano*

CPU-V : 100
T P-V : 100

PRESET | CLR | Qty | MANUAL

MANUSET | 0 / 0 | C/M ON

START | JOB No: 1 | STOP

2.3 Input

① Enter the cut pattern. ☞ Page 18

Home screen

```
┌─────────────────────────────────┐
│  PRESET   │ CLR │ Qty │ MANUAL   │
│  MANUSET    0 /    0   │ C/M OFF  │
│  START    │ JOB      │ STOP      │
│           │ No:    1 │           │
└─────────────────────────────────┘
```
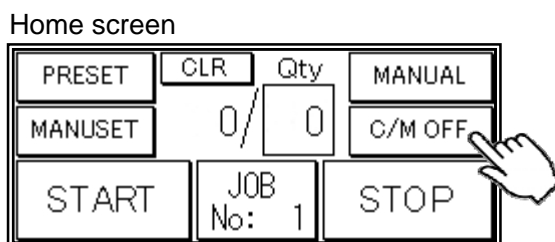
② Enter the number of sheets for operation.

All the sheets on the feed table will feed in case 0 is entered in Qty.

Home screen

```
┌─────────────────────────────────┐
│  PRESET   │ CLR │ Qty │ MANUAL   │
│  MANUSET    0 /    0   │ C/M OFF  │
│  START    │ JOB      │ STOP      │
│           │ No:    1 │           │
└─────────────────────────────────┘
```

③ Touch the screen to have C/M ON to activate cut-mark registration.

When it is on, the machine register the cut-mark and cross cuts at proper positions even the image is drifted.

Home screen

```
┌─────────────────────────────────┐
│  PRESET   │ CLR │ Qty │ MANUAL   │
│  MANUSET    0 /    0   │ C/M OFF  │
│  START    │ JOB      │ STOP      │
│           │ No:    1 │           │
└─────────────────────────────────┘
```
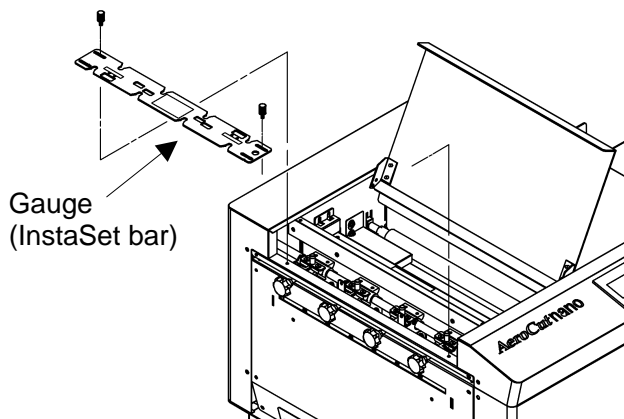
Note.

Cut-mark sensor detects the black mark by infrared light.

Some types of toner or ink may reflect the infrared light and cause the sensor not reading the cut-mark.   Please inactivate the cut-mark registration in such cases.

2.4 Gauge (InstaSet bar) setting

・Select the right InstaSet bar
according to desired cut pattern.

Gauge
(InstaSet bar)

① Loosen the slitter head lock knobs.
② Slide the slitter head with holding the knob.
   Adjust the positions of the slitters so that their pins fit to the U-notches on the InstaSet bar. Snap the InstaSet bar with the labeled side on top and adjust it so that its pointer points 0.
③ Tighten the screws.
④ Tighten the slitter head lock knobs.

U-notch ③
Pointer Screws x2
Pin ②
Slitter head Gauge (InstaSet bar)
④ Tight
Loose ①
Slitter head lock knob Scale
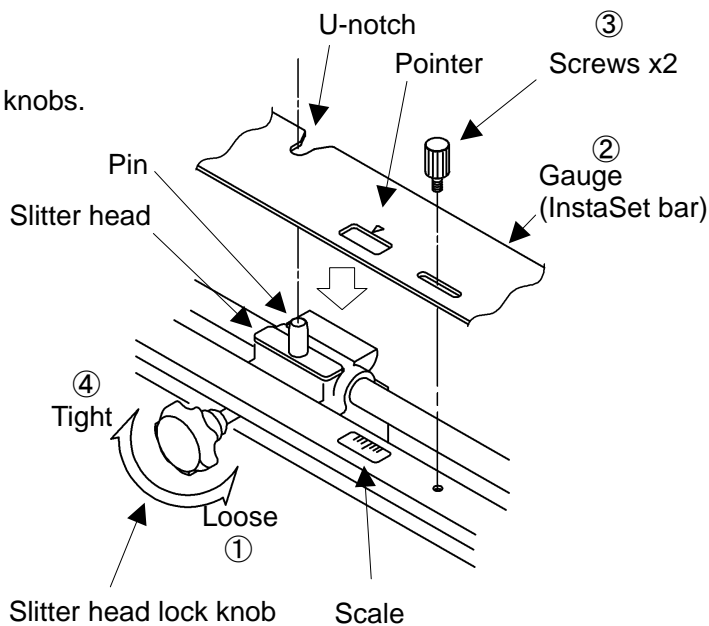
・Some cut patterns do not require to use all the slitter units.
In such cases, slide the unnecessary slitter head(s) to side trench and tighten the slitter head lock knob(s).

Don't use the head

Lock knob
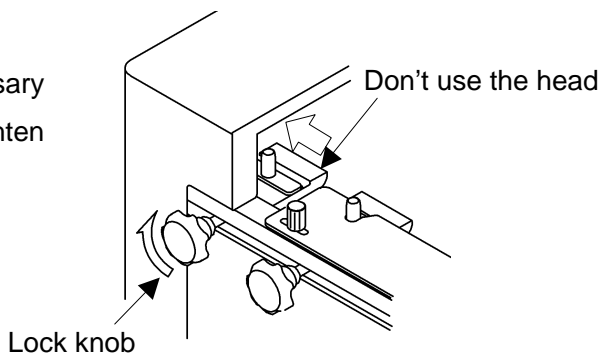
2.5 Paper setting

① Press the START button on the home screen (☞ Page

7) if the feed table is in upper position. The feed table moves down to the lower dead point.

② Flip through the sheets well before you put them on the feed table.

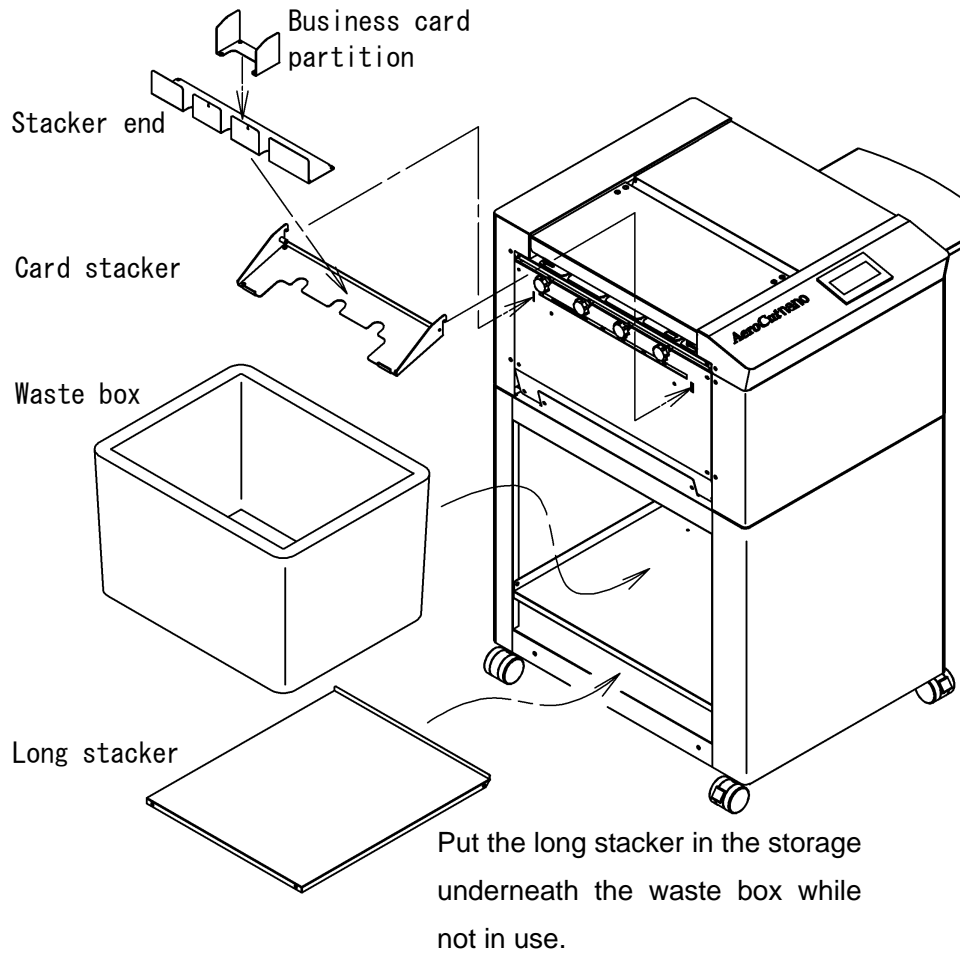③ Set the sheets on the feed table. Use the pager guide (Large) and paper guides (Small) to fix the sheets.

Pager guide (Large)   Pager guide (Small)

Pager

Pager guide (Small)
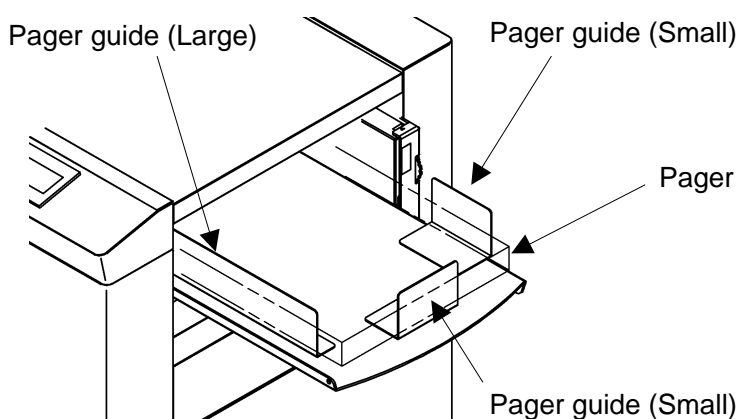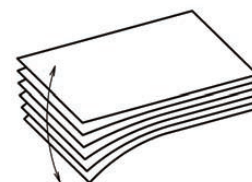
・ Paper loading capacity is 1.2".

・Make sure that the paper stack does not exceed the MAX label.

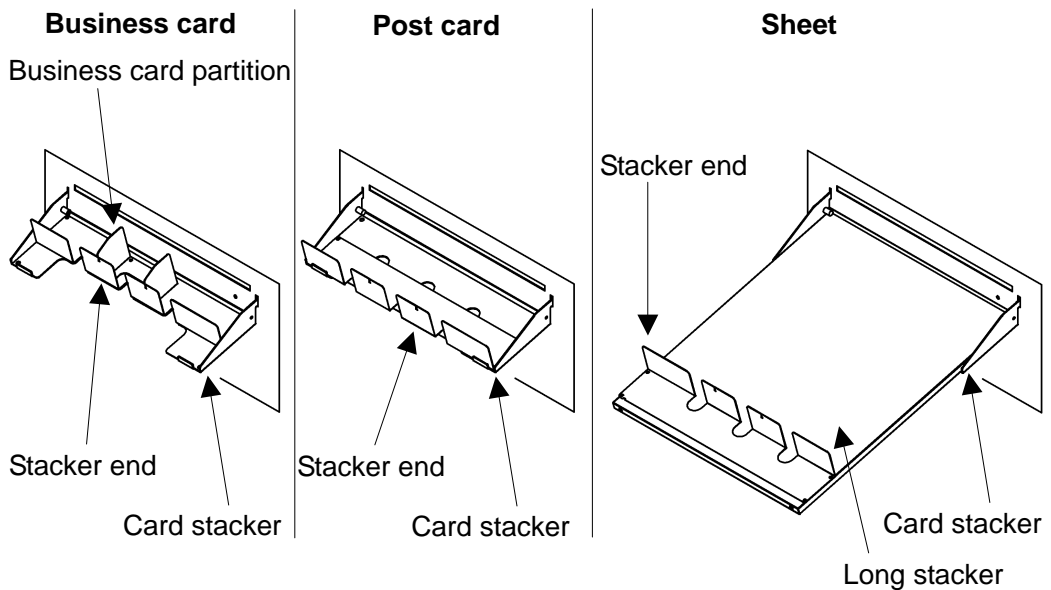・It affects finishing accuracy if there is a gap between the side guide and the sheets.

Side guide   Gap   Paper
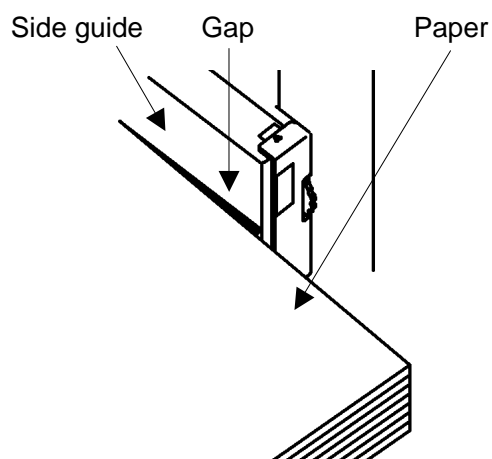
・If the print is skew on the sheets, the angle of the side guide can be adjusted.

☞ Page 15

2.6 Stacker and Waste box settings
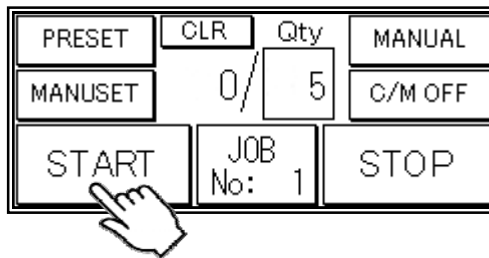
Business card
partition

Stacker end

Card stacker

Waste box

Long stacker

Put the long stacker in the storage underneath the waste box while not in use.

・Change the settings of the stacker according to the cut pattern.

Business card

Business card partition

Stacker end

Card stacker

Post card

Stacker end

Card stacker

Sheet

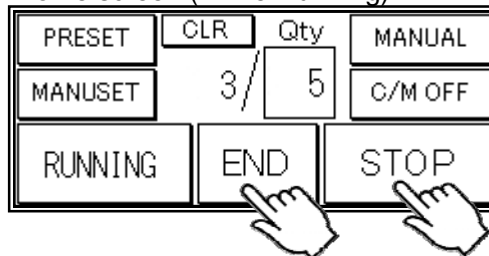Stacker end

Card stacker

Long stacker

2.7 Start

Home screen

・ After processing the entered number of sheets in ⎕ty , the machine stops automatically.

・ Do not open the Safety cover (☞Page 6) while the machine is running. Machine will stop immediately.

2.8 Stop

Home screen (While Running)

・ Press STOP and the machine will make an EMERGENCY stop even if the operation is underway.

・ Press END if you wish to stop the machine when the current sheet is completed.

・ The counter indicates the number of finished sheet when the machine is stopped with STOP or END button. Press CLR to reset the counter to 0.

Counter
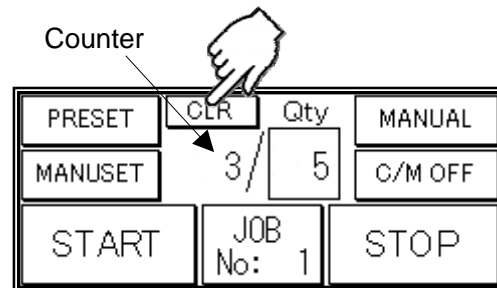
・ If paper is left in the machine, remove it by inching. (☞ Page 23)

2.9 Waste disposal

・ Dispose the wastes in the waste box appropriately.

・ Overloading wastes causes errors or a breakdown.

Waste box
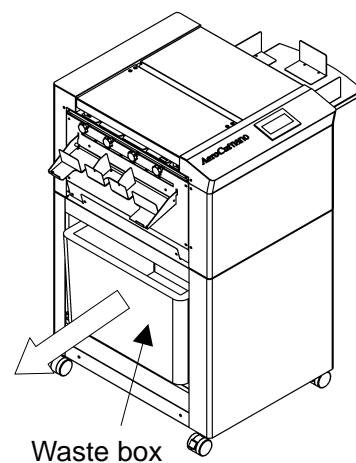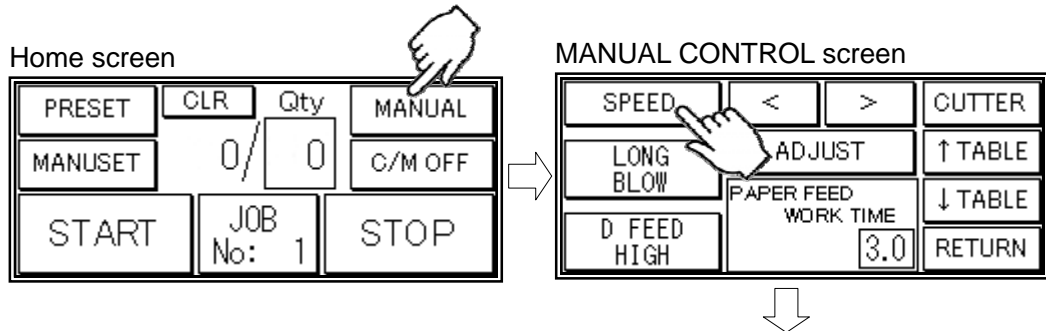
2.10　Power off

Home screen

・Make sure that the machine is stopped.

・Return to the Home screen.

・Turn off the Power switch.

PRESET	CLR	Qty	MANUAL
MANUSET	0 /	5	C/M OFF
START	JOB No: 1		STOP

3 Adjustment

3.1 Speed change

Home screen

PRESET	CLR	Qty	MANUAL
MANUSET	0/	0	C/M OFF
START	JOB No: 1		STOP

MANUAL CONTROL screen

SPEED	<	>	CUTTER
LONG BLOW	ADJUST		↑ TABLE
D FEED HIGH	PAPER FEED WORK TIME 3.0		↓ TABLE
			RETURN

SPEED screen

1	2	3	4

Slow ⟵⟶ Fast   RETURN

・In case of finishing thick paper, slow down the speed.

・ If finished sizes are inaccurate or inconsistent, there is a possibility that the running speed is too fast. Slow down the speed.
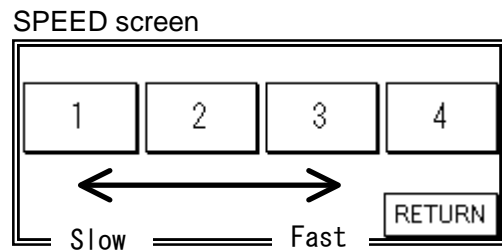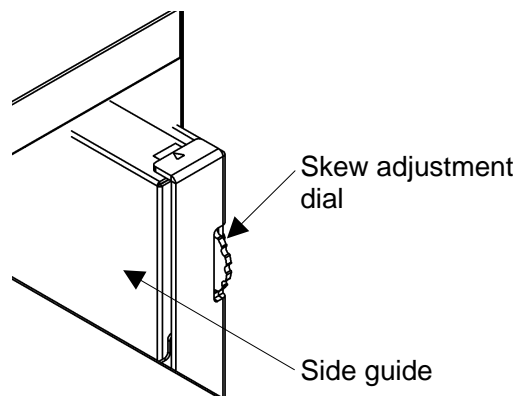
・Note.   The reference of the paper thickness and speed.

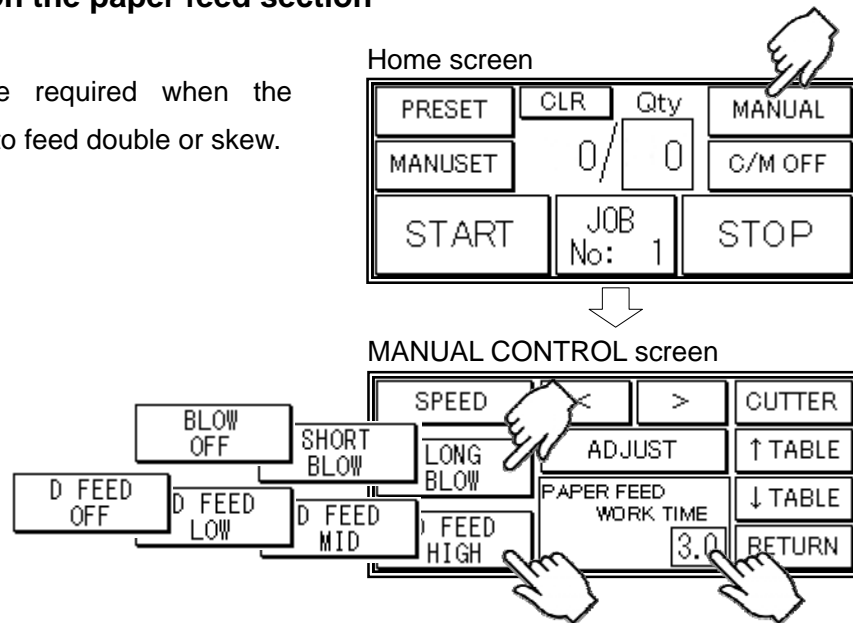| - 0.006" (0.15mm) | 4 |
| 0.006" - 0.01"(0.25mm) | 3 |
| 0.01" - | 2 |

3.2 Skew adjustment

・If print is skew on the sheet, the angle of the side guide can be adjusted.

・The angle of the side guide changes as the skew adjustment dial is turned. Set the sheets again. ☞ Page 11
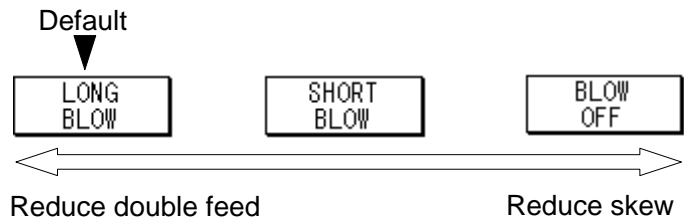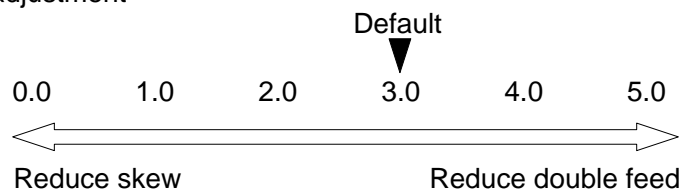
Skew adjustment dial

Side guide

3.3 Adjustments on the paper feed section

・ Adjustments are required when the machine is likely to feed double or skew.

Home screen

PRESET	CLR	Qty	MANUAL
MANUSET	0/	0	C/M OFF
START	JOB No: 1		STOP

MANUAL CONTROL screen

SPEED	<	>	CUTTER
LONG BLOW	ADJUST		↑ TABLE
D FEED HIGH	PAPER FEED WORK TIME		↓ TABLE
		3.0	RETURN

BLOW OFF — SHORT BLOW — LONG BLOW

D FEED OFF — D FEED LOW — D FEED MID — D FEED HIGH

・Air blow adjustment

Default
▼

| LONG BLOW | | SHORT BLOW | | BLOW OFF |

Reduce double feed   Reduce skew

・PAPER FEED WORK TIME adjustment

Default
▼

0.0   1.0   2.0   3.0   4.0   5.0

Reduce skew   Reduce double feed

・Sensitivity of Double feed sensor

Default
▼

| D FEED HIGH | D FEED MID | D FEED LOW | D FEED OFF |

High sensitive   Low sensitive

・If the machine detects double feed even with a single sheet, lower the sensitivity of the detection sensor.

・The detection sensor detects double feed by checking the edge of sheets as shown on the drawing.   It is recommended not to print on the sheet edge.

Detection area

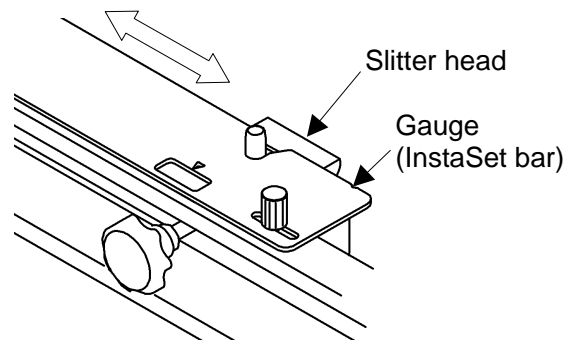Paper feed direction

16
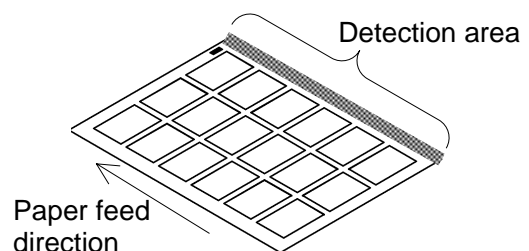
3.4 Feed size adjustment
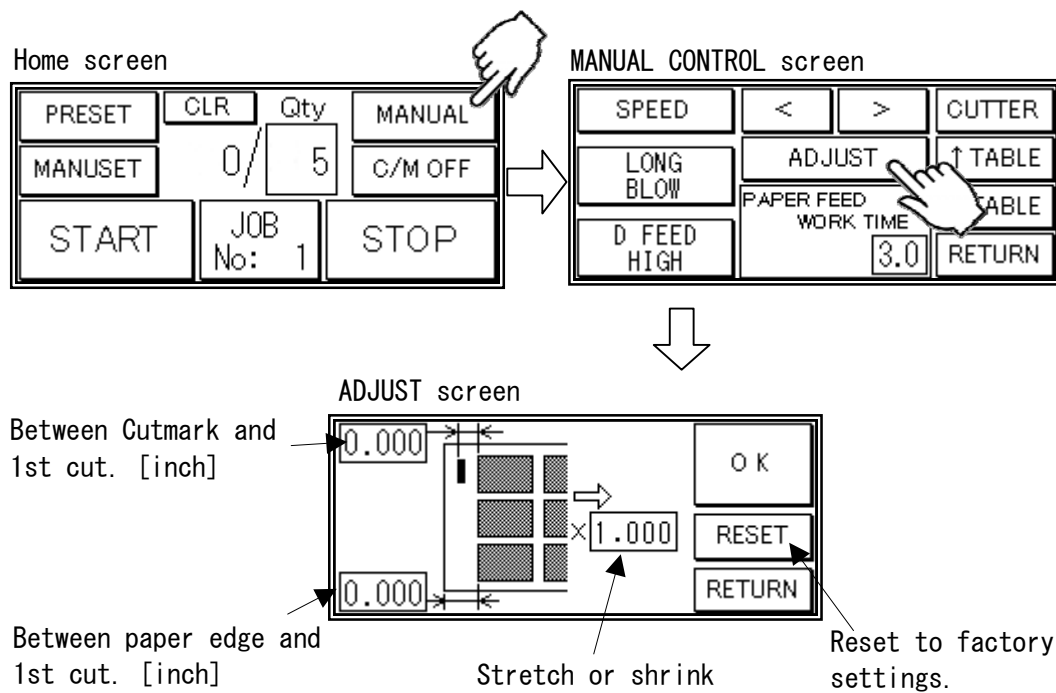
・Adjust through MANUSET screen.

☞ Page 19
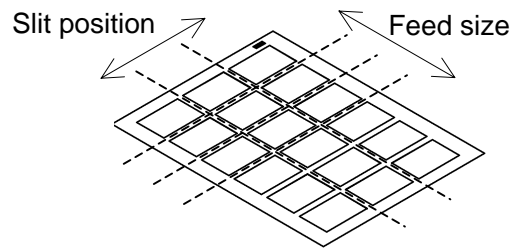
3.5 Slit position adjustment

・Adjust the positions of the slitter heads
by moving the gauge (InstaSet bar).
・The gaps between the slitter heads are
not adjustable.

Slit position   Feed size

Slitter head

Gauge
(InstaSet bar)

3.6 Cutting location adjustment (Guillotine)

Home screen

PRESET	CLR	Qty	MANUAL
MANUSET	0/	5	C/M OFF
START	JOB No: 1		STOP

MANUAL CONTROL screen

SPEED	<	>	CUTTER
LONG BLOW	ADJUST		↑TABLE
D FEED HIGH	PAPER FEED WORK TIME 3.0		↓TABLE RETURN

ADJUST screen

Between Cutmark and
1st cut. [inch]
0.000

O K

×1.000

RESET

RETURN

0.000

Between paper edge and
1st cut. [inch]

Stretch or shrink

Reset to factory
settings.

Input balance between the entered value in MANUSET and the actual finished size.
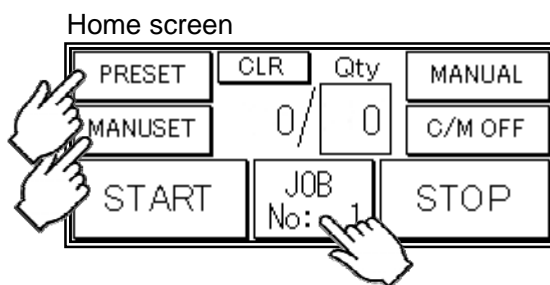
i.e. MANUSET:1.00", Actual size:1.02" = Input -0.02"

4 Cut pattern input

4.1 Outline

· **PRESET**   PRESET is a series of cut patterns that are already stored in the
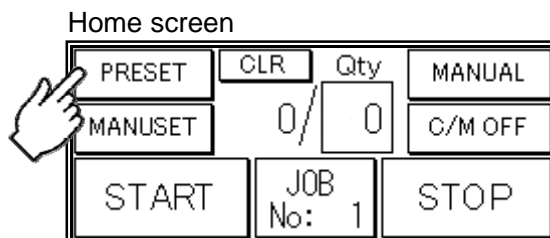
machine. (☞ Template)

· **MANUSET**   In MANUSET mode, user programs can be created and stored into the

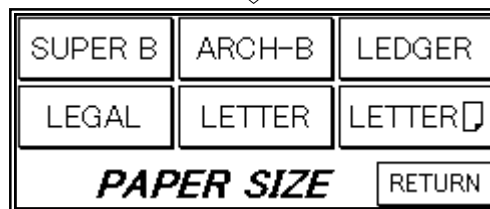machine.

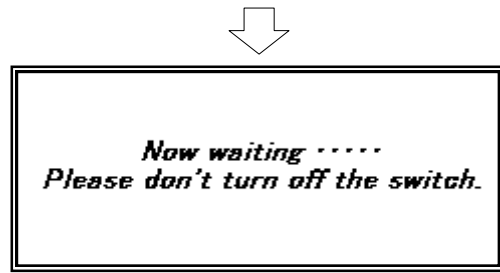· **JOB No: 1**   Recall the stored user programs.

Home screen

PRESET	CLR	Qty	MANUAL
MANUSET	0/	0	C/M OFF
START	JOB No: 1		STOP

4.2 PRESET

① Press PRESET.

Home screen

PRESET	CLR	Qty	MANUAL
MANUSET	0/	0	C/M OFF
START	JOB No: 1		STOP

② Press the size of the original sheets.

SUPER B	ARCH-B	LEDGER
LEGAL	LETTER	LETTER⤵
PAPER SIZE		RETURN

② Press the cut size.

| BUSINESS CARD |
| POST CARD |
| **OUTPUT SIZE** | RETURN |

③ The machine recalls the preset pattern and automatically returns to the home screen.
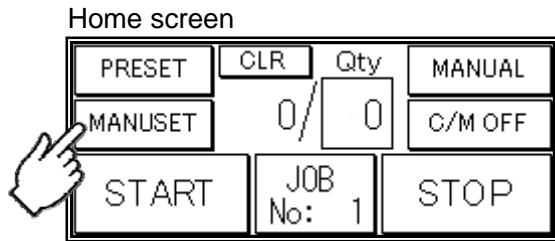
Now waiting · · · · ·
Please don't turn off the switch.

④ To check the details of selected job, press the MANUSET.
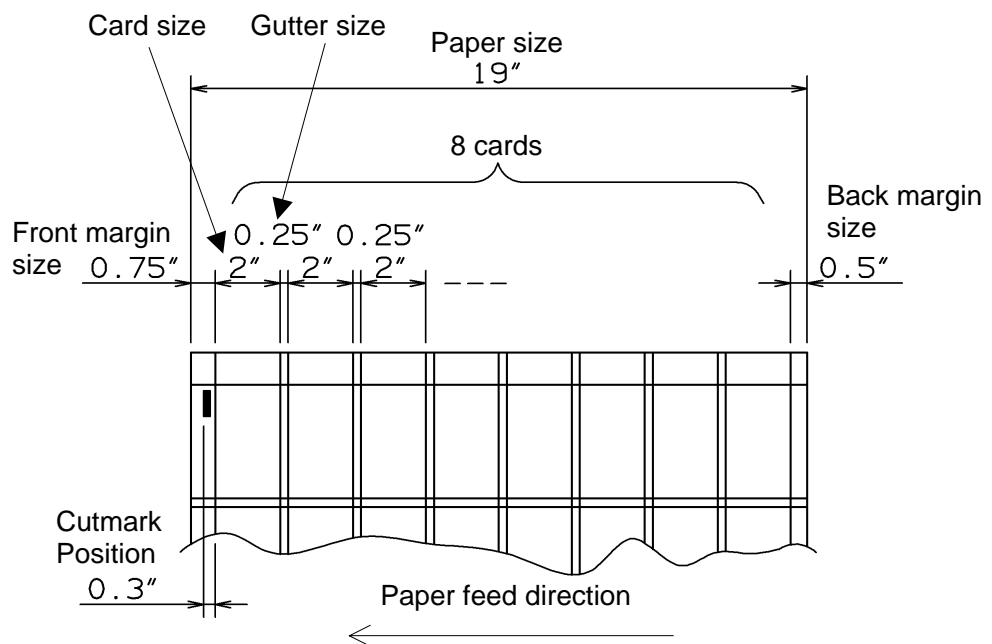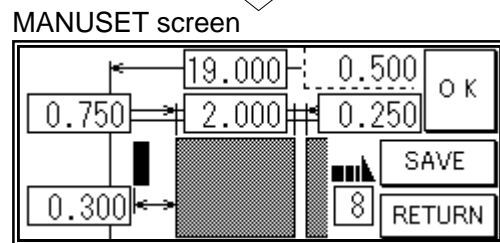
Press the START to get the machine started.

PRESET	CLR	Qty	MANUAL
MANUSET	0/	0	C/M OFF
START	JOB No:		STOP
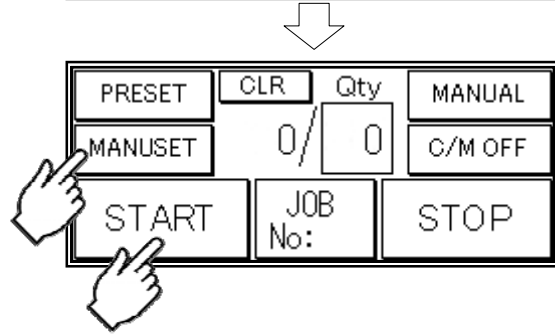
4.3 MANUSET/ SAVE

① Press MANUSET.

Home screen

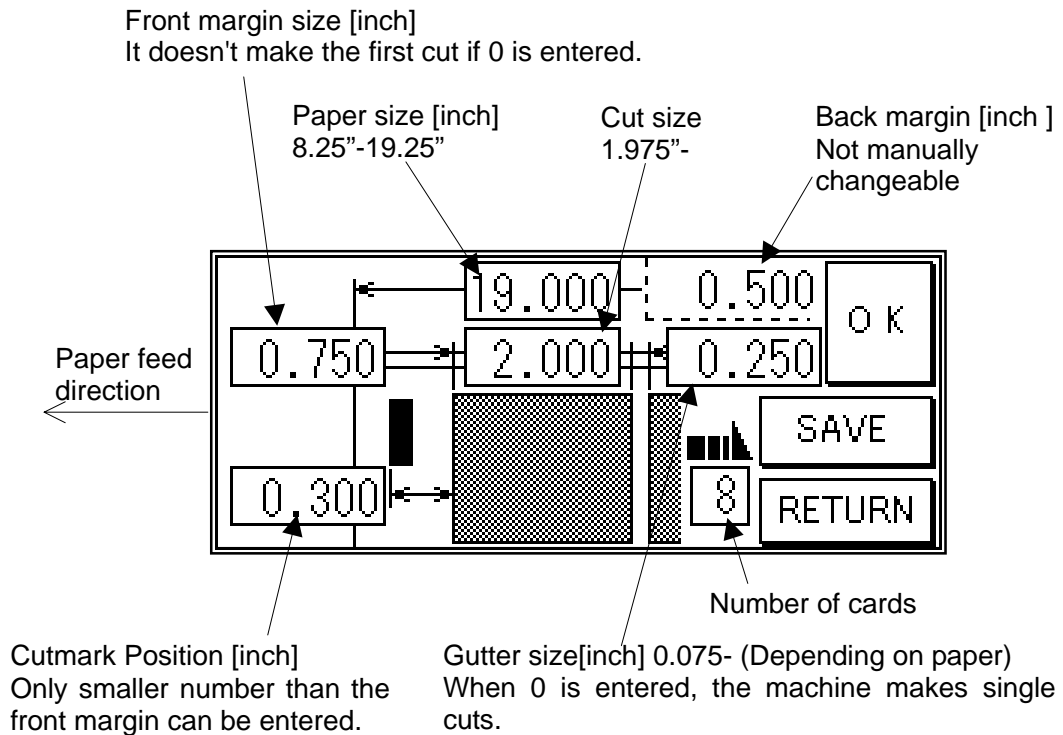| PRESET | CLR | Qty | MANUAL |
| MANUSET | 0/ | 0 | C/M OFF |
| START | JOB No: 1 | | STOP |

② The screen displays the current cut pattern.

The program shown in the picture is for the below cut pattern.

MANUSET screen

19.000	0.500	O K
0.750	2.000	0.250	
			SAVE
0.300		8	RETURN

Card size Gutter size Paper size 19″

8 cards

Front margin size 0.75″ 0.25″ 0.25″ Back margin size 0.5″

2″ 2″ 2″ - - -

Cutmark Position 0.3″

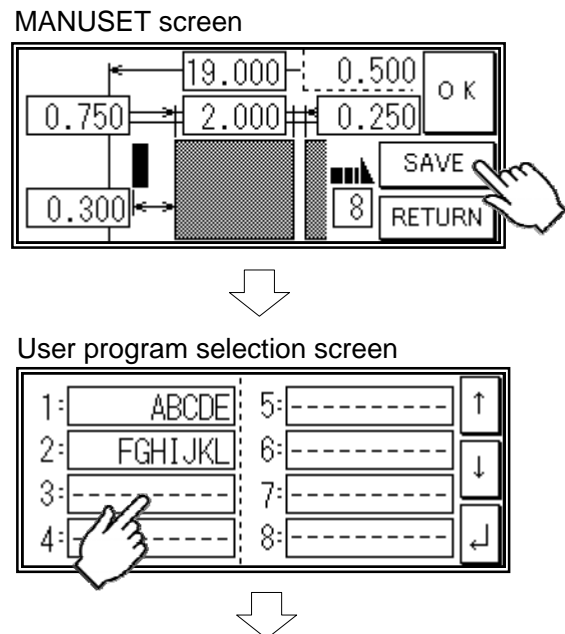Paper feed direction

19

③ Press the number to change the value.

The values that can be changed and the limits are as shown in the figure below.

Front margin size [inch]
It doesn't make the first cut if 0 is entered.

Paper size [inch]
8.25"-19.25"

Cut size
1.975"-

Back margin [inch]
Not manually
changeable

Paper feed
direction

19.000	0.500	O K
0.750	2.000	0.250
0.300		8	SAVE / RETURN

Number of cards

Cutmark Position [inch]
Only smaller number than the
front margin can be entered.

Gutter size[inch] 0.075- (Depending on paper)
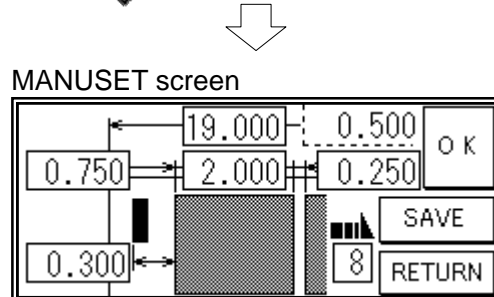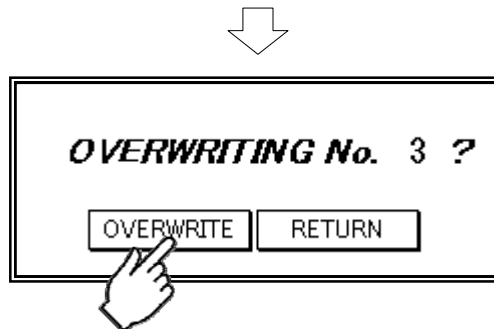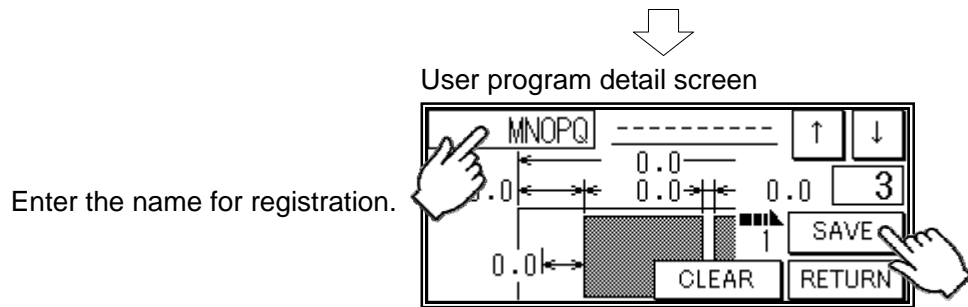When 0 is entered, the machine makes single
cuts.

・ If an error message is displayed. ☞ Page 24

④ Can store the contents of the MANUSET Press the SAVE .
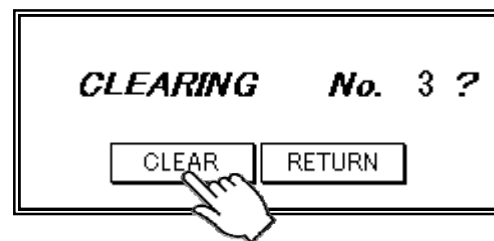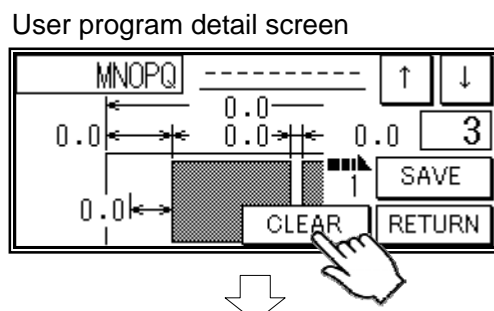
40 user program can be registered.

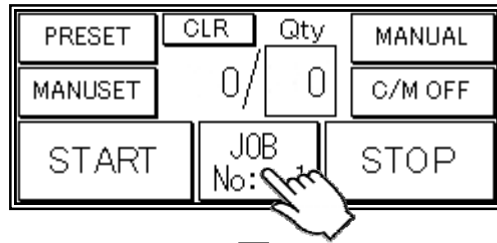MANUSET screen

User program selection screen

1:	ABCDE	5:	--------	↑
2:	FGHIJKL	6:	--------	↓
3:	--------	7:	--------	
4:	--------	8:	--------	↵

User program detail screen

Enter the name for registration.

```
MNOPQ  ----------  ↑  ↓
          0.0
0.0       0.0      0.0    3
                          ▪▪▪▶
                          1   SAVE
0.0       CLEAR       RETURN
```

OVERWRITING No. 3 ?

| OVERWRITE | RETURN |

MANUSET screen

```
        19.000    0.500    O K
0.750   2.000    0.250
                          SAVE
                 ▪▪▪▶
0.300            8    RETURN
```

Note.

Press CLEAR to delete the user program.

User program detail screen

```
MNOPQ  ----------  ↑  ↓
          0.0
0.0       0.0      0.0    3
                          ▪▪▪▶
                          1   SAVE
0.0       CLEAR       RETURN
```

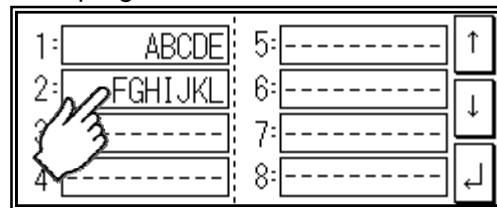**CLEARING   No. 3 ?**

| CLEAR | RETURN |

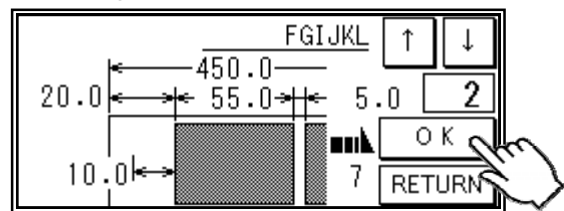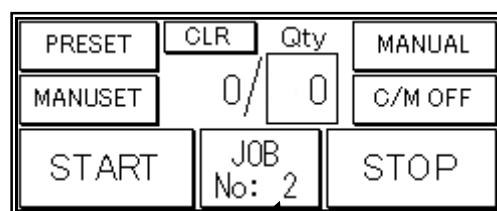## 4.4 User program selection

Home screen

Home screen

User program selection screen

User program detail screen

Home screen

The screen indicates the user program number.

5   Manual control

5.1 Manual control screen

Home screen

MANUAL CONTROL screen
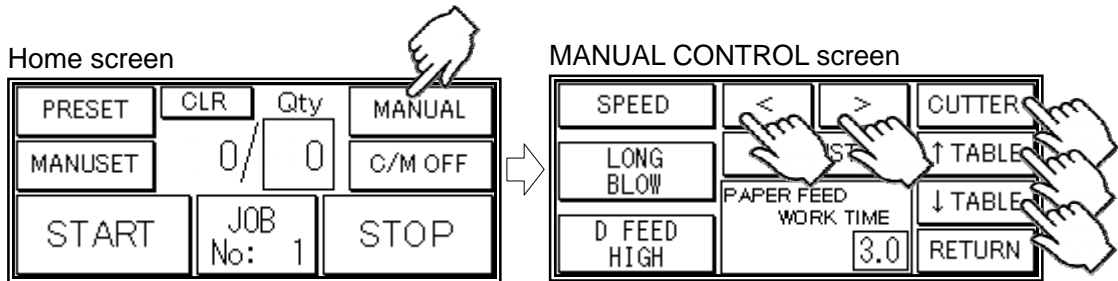
· [<] [>]   Feed roller will rotate.
    Inching

· [CUTTER]   Guillotine will move once.

· [↑ TABLE]
  [↓ TABLE]   Feed table will move.

5.2 Paper jam

① Enter MANUAL CONTROL screen, press < > buttons to inch the rollers forward/backward and remove the jammed paper.
If paper is stuck around the guillotine section, press CUTTER to cycle the guillotine to chop jammed paper.

MANUAL CONTROL screen
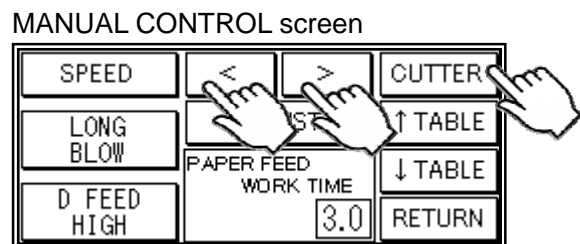
② If the Main motor doesn't rotate, slow down the speed.

MANUAL CONTROL screen
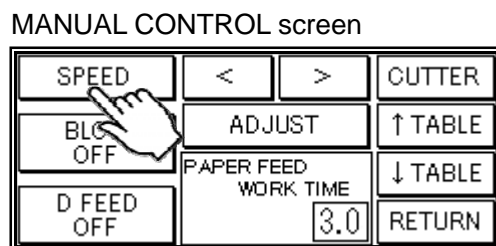
6 Error messages

1.

COVER OPEN !!
CLOSE COVER.

Safety cover (☞ Page 6) might be open.
Make sure to close the Safety cover closed.

2.

TIME OUT ERROR !!
CHECK PAPER PATH.
[RETURN]

Timeout error 1
Paper was not fed within a set time period.
Check the paper feeder.

3.

TIME OUT ERROR !!
CHECK PAPER PATH.
[<] [RETURN] [>]

Timeout error 2
Paper did not pass through within a set time period.
Remove the paper remaining inside the machine.

4.

DOUBLE FEED DETECTED !!
[<] [RETURN] [>]

Check the paper or paper path.

5.

CUT-MARK NOT READ !!
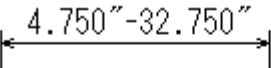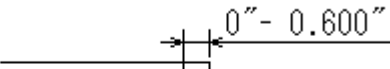**CHECK CUT-MARK**
or SENSOR!!
[<] [RETURN] [>]

Cutmark was unable to be detected.
Check the cut mark.
Eject the paper inside the machine.

Note.
Cut-mark sensor detects the black mark by infrared light. Some types of toner or ink may reflect the infrared light and cause the sensor not reading the cut-mark. Please inactivate the cut-mark registration in such cases.

6.

CUT PAPER JAMMED !!
REMOVE JAMMED PAPER.
| < | RETURN | > |

Paper remains inside the machine. Remove the paper.

7.

OVERLOADED !!
CHECK KNIFE UNIT !!
| RETURN |

Overload error 1

Cutting did not complete within a set time period.

Remove the paper remaining inside the machine.

8.

OVERLOADED !!
CHECK PAPER
FEED TABLE !!
| RETURN |

Overload error 2

An overloading error occurred at the feed table.

Check the feed table.

9.

COMMUNICATIONS ERROR!!
Cut off the power supply!
ERROR CODE: -✳✳✳✳

Communication with the touch panel is not possible.

Turn off the power, and turn it on again after 5 seconds or longer.

10.

4.750"-32.750"
| RETURN |

Paper size error

Correct the paper size to fit in the value range below.

11.

0"- 0.600"
| RETURN |

Back margin error

Correct the back margin to fit in the value specified below.

12.

≧2.500″

RETURN
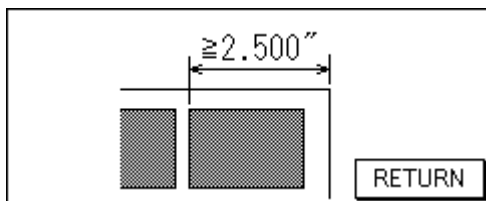
Final cutting measurement error
Correct the final cutting measurement to exceed the value specified below.

13.

A | A≧B

B

RETURN
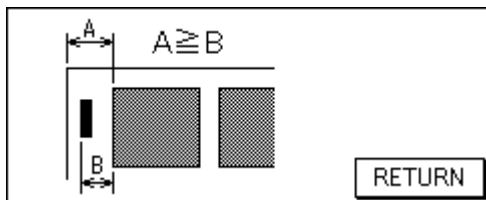
Leading edge margin and cut mark margin warning
Correct the measurement so that the leading margin becomes larger than the cut mark margin.

14.

1.975″- ✳✳.✳✳✳″

RETURN
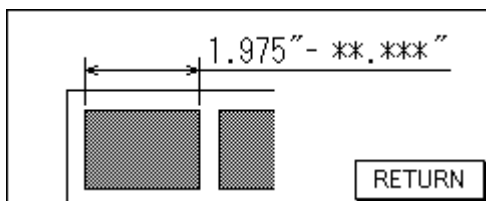
Cutting measurement error
Correct the cutting measurement to fit in the value range below.
The maximum value is subject to change depending on the entered paper size.

15

1 ～ 48

RETURN
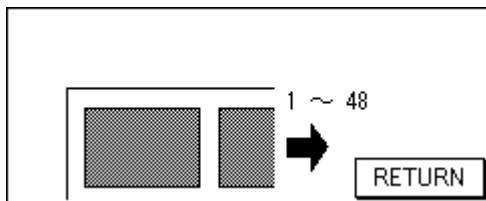
Cut piece number error
Correct the number of cut pieces to be in the value range below.
The maximum number of pieces is subject to change depending on the operation.

7 Troubleshooting

1. Papers are not fed well.

・Check if the paper guides on the feed table hold sheets too tight.

・Make sure that the paper edges are not curled or waved.

・Make sure that the papers are not heavily electric static charged.

・Shorten the PAPER FEED WORK TIME.　i.e. 1.0　(☞ Page 16)

・Lengthen the air blow adjustment.　(☞ Page 16)

2. The machine feeds double-sheets.

・Make sure that the papers are not heavily electric static charged.

・Lengthen the air blow adjustment.　(☞ Page 16)

・Lengthen the PAPER FEED WORK TIME.　i.e. 3.0　(☞ Page 16)

3. The machine doesn't detect double-feed properly.

・The machine detects the density of the first fed sheet and compares the density of the next sheet to the first one.　Therefore, the machine cannot detect double-feed when it occurs with the first fed sheet.

・Adjust the sensitivity of the double-feed detection sensor.　(☞ Page 16)

・The detection sensor detects double feed by checking the edge of sheets as shown on the drawing.　It is recommended not to print on the sheet edge. (☞ Page 16)

4. The machine detects double-feed mistakenly.

・Adjust the sensitivity of the double-feed detection sensor.　(☞ Page 16)

・The detection sensor detects double feed by checking the edge of sheets as shown on the drawing.　It is recommended not to print on the sheet edge. (☞ Page 16)

5. Cut skewing

① Make sure that the stock is put on the feed table correctly. (☞ Page 11)

② Check whether the skewings are consistent or inconsistent.

If skewings are consistent :

+ Make the skewing adjust via the skew adjustment dial. (☞ Page 15)

+ Set the paper guides without play.

Do not set them too tight as the sheet may not be fed well.

If skewings are inconsistent :

+ Make the blower and separation time adjustments properly. (☞ Page 16)

+ Make sure that the sheets are printed consistently and aligned well.

6. Paper jam often occurs.

・Make sure that papers, paper strips or paper dusts not remain inside of the machine.

・Check the conditions of the paper stock.(☞ Page 7)

8 Product specifications

Specifications	
Slitter	4 sets (6 slitter blades)
Guillotine	1 set
Maximum paper size	13" x 19"
Minimum paper size	8.25" x 8.25"
Minimum work size	3.5" x 2"
Paper weight	32 lbs (Bond) – 130 lbs (Cover stock) (120-350g/㎡)
Maximum paper curl size	0.125"
Paper type	Offset, Coat, UVcoat, Glossy, Laminate
Paper feeding method	Air Suction
Input tray capacity	MAX1.2"
Speed	6 sheets per minute (21 business cards from A3)
Machine dimensions	W22.2"x D24.9"x H37.9" (Occupancy area: W46.9"x D24.9"x H46.5")
Net weight	154lb (70kg)
Power supply	Single phase 100- 240VAC, 50/60Hz,
Power consumption	100W
Use temperature	-5℃～+40℃
Preservation temperature	-25℃～+65℃
Use temperature humidity	45～85%RH
Preservation humidity	25～100%RH
Use the uplands	～1000M
One's tolerance level	100～240V +6%, -10%
Over voltage category	Category Ⅱ according to IEC60664-1
Pollution degree	Degree 3 according to IEC60664-1

Keep this "Operation Manual" at an appointed place with care so that it may be available whenever required.

If this "Operation Manual" is stained or lost, make contact with the distributor or our salesman or customer service section to ask for a new operation manual after making sure of its contents.

When ordering consumables or parts, be sure to specify the machine model.

UCHIDA YOKO CO., LTD., TOKYO, JAPAN