Product instruction manual Magnum MC-35A

MAGNUM



The Magnum has been designed to be user friendly, however we strongly recommend you take a few minutes to read through this manual to ensure correct operation.

Keep this manual safe for future reference.

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1 INTRODUCTION

1.1 Preface

This manual only applies to MC-35A Auto Creaser machine. Before using the machine, please read the instruction manual carefully first. Please keep the manual properly so that consulting it at any time in the future. Any question while operating please contact our technicians.



1.2 Specification

Paper thickness	60-400 gsm
Paper length	150-650mm
Paper width	140-330mm
Speed (One crease on A4):	75pcs/min (high)
Sniper Speed (One crease on A4):	50pcs/min (high)
Min crease gap	1mm
Min gap from leading edge to first cre	ase +/-0.2mm
Crease qty in one pass	0 -32
Max program qty	30
Crease counting	reversible counter
Total counter	for crease qty and paper qty
Skew adjustment	Standard
Crease depth adjustment	Standard
Feeding extension table	Standard
Output tray	Standard
Language	/EN
Linear perforating max	8 set, min gap between 2 is 30mmOption
Linear scoring max	8 sets, min gap between 2 is 30mmOption
Linear half cutter max	8 sets, min gap between 2 is 30mmOption
Linear Slitter max	8 set, min gap between 2 is 40mmOption
Stand	Option
Power	220V/50HZ/150W
Fuse rating	3.15A
Air blast	Infinity adjustable
Weight	63kg (NG) 70kg(GW)

2 SAFETY

Before or while operating this machine, you should pay great attention to the safety features.

2.1 Environment

Temperature : 10°C to 35°C Humidity: 30% to 70%

Altitude: Below elevation 1000m

There is no corrosiveness gas, flammable gas, oil mist and so on in room

2.3 Operating Instructions

English

Please read these operation instructions before putting the machine into operation and observe the safety precautions. Model: MC-35A Input: 110V/220V

- 1. Children must not operate the machine!
- 2. Do not reach into the machine!
- 3. Long hair can become entangled in cutting head!
- 4. Take care of ties and other loose pieces of clothing!
- 5. Remove any paper clips!
- 6. Components which may endanger the operator are covered!
- 7. Connect the power cord to a single phase socket 230 V / 10 A.
- 8. Ensure free access to mains.
- 9. Disconnect from the mains if not used for a long period.

10. Top fold plate must lock into position correctly.

11. Remove the plug before cleaning the machine! Do not perform any repairs on the paper folding machine!

12. the socket-outlet shall be installed near the equipment and shall be easily accessible.

- this equipment is not intended for use by children (the product is not a toy);

- avoid touching the document/media feed opening with the hands;

- avoid clothing touching the document/media feed opening;

- avoid hair touching the document/media feed opening; and

 keep aerosol products away [for equipment incorporating a universal (brush) motor only].

Be careful of any metal or flammable thing in internal machine, or it may cause fire or electronic shock. If it happens, first shut down the power, disconnect the cord, and then contact the technician.

If machine becomes heat, smoke, or smelly, shutdown at once, disconnecting the cord, and contact the maintenance staff.

Franch

Veuillez lire ces instructions d'utilisation avant de mettre la machine en marche et respectez les consignes de sécurité.

Modèle:MC-35A

Entrée: 110 V / 220 V

1. Les enfants ne doivent pas utiliser la machine!

- 2. Ne pas atteindre dans la machine!
- 3. Les cheveux longs peuvent s'emmêler dans la tête de coupe!
- 4. Prenez soin des cravates et des autres vêtements amples!
- 5. Retirez tous les trombones!
- 6. Les composants pouvant mettre en danger l'opérateur sont couverts!
- 7. Connectez le cordon d'alimentation à une prise monophasée 230 V / 10 A.
- 8. Assurer un accès libre au secteur.

9. Débranchez du secteur s'il n'est pas utilisé pendant une longue période.

10. La plaque de pliage supérieure doit se verrouiller correctement.

11. Retirez la prise avant de nettoyer la machine! N'effectuez aucune réparation sur la machine à plier le papier!

12.la prise de courant doit être installée à proximité de l'équipement et doit être facilement accessible.

- cet équipement n'est pas destiné à être utilisé par des enfants (le produit n'est pas un jouet);

- évitez de toucher l'ouverture du document / support d'alimentation avec les mains;

- éviter que les vêtements ne touchent l'ouverture du flux de documents / supports;

- éviter que les cheveux ne touchent l'ouverture du flux de documents / supports; et

- conserver les produits aérosols à l'écart [pour les équipements intégrant

uniquement un moteur (à brosse) universel].

Faites attention à tout objet métallique ou inflammable dans la machine interne, ou cela pourrait provoquer un incendie ou un choc électrique. Si cela se produit, coupez d'abord l'alimentation, débranchez le cordon, puis contactez le technicien. Si la machine devient chaude, fume ou malodorante, arrêtez-la immédiatement, débranchez le cordon et contactez le personnel de maintenance.

3 MAIN PARTS AND ACCESSORIES



No.	Parts	Description
1	Slide-in bar lock	Locks the tool in position
2	Slide-in bar	Could be crease bar or perforate bar
3	Screw	To assist user slid in/out the tool
4	Optional Stand	Option with caster
5	Power socket	Mains lead socket
6	Power switch	Power On/off
7	Loading table	To load sheets
8	Back Stop	Rear paper guide
9	Fixed Side guide	With skew adjustment

10	Air gate	Infinity adjust to control air flow
10	Front quide	sheet feed with double sheet detector
12	Skew adjust wheel	To change the angle of fixed side guide
13	Press wheel	To press the paper tail
14	Stack height sensor	To trigger the feeding job after loading table rise
15	Vacuum feed system	Blow to make vacuum and feeder
16	Front guide knob	To adjust the height of front guide
17	Blower knob	To adjust the air flow
18	Press plate	To press the paper when it is feeding
19	Control panel	To input and display
20	Side guide -exit tray	
21	Output tray	Sheet collection tray
22	Clip	Release to uninstall the shaft
23	Outfeed shaft	Clip for rear shafts
24	Outfeed counter roller	Work together with Linear tools
25	Depth adjust screw	To adjust the depth or crease or perforate
26	Roller screw	To adjust the depth of linear tools
27	Linear tools	Roller, scorer, kiss cutter,slitter or perfoater
28	Installing bar	To install the slid-in tool

4 INSTALLATION

4.1 Uninstall the protection bar



The first thing after unpacking and putting machine on table is to uninstall the protection bar.

4.2 Set the balance bracket



Balance bracket

Please be careful of the bracket from your hand when you are moving it to the stand. Inset screw drive through the hole in red cycle, release the bracket to fall, and then set them again.

4.3 Output tray, stops and guides

Unpack it , install the parts as per above illustration.

Note: Set guide and stops according to the paper format.

The capacity of the tray should always less than 30mm(A3) to keep machine balance.



Auto creaser

4.4 Feeding extension



We can see there are 2 screws on rear of feeding table, and there are 2 holes on side of extension table.

4.5 Power socket and switch



Before the operation, please connect the socket to the electricity with attached cord, press the switch (when the red point is down, the machine is power on.) Fuse under the socket is to protect the system in case the current is over 3.15A, to replace the Fuse, we firstly un-clip the cartridge with a straight screw driver. Secondly remove the broken fuse from the cartridge and load a new one back. At last, we reload the cartridge.



Auto creaser

5 QUICK START

Paper must be flat and not curled ,not hooked, cut straight and square

1. Turn on machine,

2. To lower tray feed, press

STOP

3. Put paper in the tray, against the fixed guide, front and side.

4. Fit tray and outfeed tray extensions as required if over A3, Pile must be even and square.

5. Position side guides close to the side and the end with enough gap to let the paper move freely.(Ca. 0.5 mm gap) **Never put the guides under the feed head or they may get trapped when the tray lifts and destroy the feed head, and invalidate the warranty**

6. Set the guides on the output tray to catch the paper

7. Adjust front air blast by left knob according to paper weight. Heavy=>more =anti clockwise ,light=>less=clockwise

8. Adjust pile height limiter as needed, clockwise = higher, anticlockwise =lower

9. Adjust front separator by right knob according to paper caliper, thick= down= clockwise, thin=up=anti-clockwise.

10. As necessary, adjust crease steps, using the 4 screws on crease bar, clockwise=down, anti-clockwise= up, adjust max 1/4 turn evenly on all 4 at a time.

11. Adjust skew as needed to correct front cut errors, knob down =paper to the right, knob up =paper to the left

12. For thin paper you may need to use 1 or 2 magnetic deflectors to stop the paper lifting.

13. Input line position from front edge from 0-32 lines, min 1mm max 650, spiacing 0.5mm.Press M enter 1st line value, press enter 2nd line value...... press enter twice to quit.

14.Input quantity max value 999, counter will count down and stop at 0,

15.For test press gray button once,=1 cycle, tray will lift and fans will run up.

16.Check the result, and compensate as needed.

17.Press green button to run, tray will lift and fan will run.

18.Press red to stop, or the machine will stop when preset is reached, tray will drop.

6 OPERATION

6.1 Control panel

The control panel consist of keys and screen, as per following picture.



No	Кеу	Description
1	STOP	Stop the machine.
2	START	Run the machine.
3	TEST	Machine will run one test sheet
4	CLEAR	Clear the data or clear the error display
5	KEY PAD	Input data
6	SCROLL	Turn the page
7	INDICATOR-	If the machine didn't find a paper for ca. 20s while it
	NO PAPER	is running, it lit and return a error report."C-4 No
		paper or Jam"
8	INDICATOR-	If the crease motor locks, it lighten and return a
	BLADE JAM	error report"E-1 CR Motor Error"
9	INDICATOR-	If the paper is jammed inside the machine, it lighten
	PAPER JAMMED	and return a error report. "C-2 Jam at infeed" or
		"C-3 Jam at outfeed"
10	INDICATOR-	If the safety cover is not well setting, it lighten and
	SAFETY COVER	returned a error report."C-1 CR cover open"
11	UNJAM FORWARD/	When paper jams, press them to move rollers, so
	REVERSE BUTTON	that the paper can be easily cleared.
12	MODE	Change the modes
13	SCREEN	Display information.
14	ENTER	After the data input, press it to confirm.

6.2 Operation Screen

6.2.1 Welcome Screen

Turn on the machine, Welcome Screen will appear firstly as follow.

We	lcome		

It will last for 2 sec, then jump to Ready Screen automatically

6.2.2 Ready Screen

When Ready Screen comes on it means machine has finished selfchecking process.



All system screens are divided into 10 MODES as per different functions, we

can scroll the mode by pressing the key M. In each MODE, there may be over 1 page to display different information, we can scroll the page by pressing Page Up Key or Page Down Key to browse. Scan all information of the Ready Screen by pressing Page Down Key. The information is divided into 4 kinds except the main ready screen: Crease data, total sheets, crease qty., software version & serial number.



Namely, press Page Up Key for 2 times from main ready screen.

6.2.3 input Crease Data Screen

Input CR Data 1) 10.0 2) 20.0

Initially in this Mode, cursor flashes in Line 1), (which means data can be input), input the data, from 0-650.0, accurate to one decimal place.

Press ENTER, cursor turns from 1) to the next line, namely line 2) and flashes in line 2).Input a data, press ENTER. cursor turns from 2) to the next page, namely line 3) and flashes in line 3). The rest can be done in the same manner. **Note:** 1. Each value has to be greater than last value.

2. If all 6 lines are needed, after we Enter the 6th data, screen will automatically jump to MODE 1, page 1. Input finished.

If less than 6 line is needed, after we finish the last data (say, the 3rdline), Enter, Line[4] flash, press ENTER again when line[4] is 0, screen will jump to main operation mode, input finished.

6.2.4 read Crease Data Screen



Press **TEST** Key and feed one sheet. Machine will read the data by scanning the mark. Then go back to Ready Screen.

Note: In this mode, machine only read data as per register mark not creasing.

6.2.5 Read and Test Screen



Press TEST Key and feed one sheet. Machine will read the data by scanning the mark and Crease at the same time. Then go back to Ready Screen.

Note: In this mode, you can check the crease position is correct.

6.2.6 cover Hinge Screen

This is a mode specially for book covers make. Following are 2 pages of this mode, in which you can input 2 parameters. SPINE and THK, Spine means the first spine line to the leading edge, THK means the thickness of the book, namely the spine width.

Cover hinge SPINE:200

THK: 10

Then it will go back to Ready Screen:

Ready	0/0
1)192.0	2) 200.0

3) 210	4) 218
5) 0	6) 0

2 parameters leads to 4 line, the other 2 is 8mm outside of 2 spine lines as hinge lines. Following drawing illustrates:



6.2.7 progressive Screen

Progressive		
1=OFF*	2=ON	

Input <mark>1</mark> and Enter, it means turning off progressive function and goes back to Ready Screen:

Ready	0/0
[1] 0	[2] 0

Input <mark>2</mark> and Enter, it means active progressive function. Screen will jump as following to setting for the progressive crease:

1= Inc*	2= Dec
3= I&D	4= V

Progressive Type Inc: Increase Type; Dec: Decrease Type I &D: Increase and Decrease Type V: V-shape Type

Sheet : 2

Initial:1.0

Depth:1.0

Progressive crease performance is shown as above, it contains 4 types.

And each job has 4 basic parameters:

- 1. Progressive type: Inc(+)/Dec(-)/I&D(±)/V(V).
- 2. Initial: Initial Position
- 3. Depth: Unit for Progressive type crease.
- 4. Sheet: Total sheets for Progressive type crease

ning unless pressing <mark>Stop </mark> Key
11

It means job is Inc type Progressive crease, starts from 1mm increase by 1mm and runs for 2 sheets.





If all the sheets creased on same position, the bounded book cannot be turned over lay flat like this drawing.

With 3 kinds of crease mode, even thick paper can be turned over very easily and lay flat after binding.

The illustration for V-shape is as following



In this way the book can be folded with a square back after saddle stitched Affection of above 4 parameters are as above drawings

6.2.8 feed Mode Screen



User can choose Auto feeding mode or Manual feeding mode,

Press 1 to choose Auto or 2 to choose Manual, the chosen has a * symbol

beside, Press –, it is selected.

In Auto Mode, user put a thick stack on loading table, after press START button, loading table rise, after the top paper touch the Stack height sensor, feeding system work.

In Manual Mode.user does not put stack on loading table, after press start button, table will rise,and it stops after the stack height sensor is triggered. User could feed paper one by one into the machine under the friction of the belt.

6.2.9 recall Job Screen



Recall a job, you have already save a job inside firstly. About how to save job referred to 6.2.10.1.

6.2.9.1 How to Recall Job?

a. Press Mode Key 7 times to go to Recall Job Screen, seeing following screen.



b. Input a number between 1-30 (10 as per following example.).

Recall Job

Job No. 10

c. Press Enter, Success comes out. It means job is recalled successfully.



d. Screen jumps to Ready Screen, and the data become 10, 20, 30,40, 50, 60.

Ready	0/0	
[1]10. 0	[2]20.0	

[3]30.0	[4] 40. 0
[5] 50. 0	[6]60.0

e. If Press Enter, Failure comes out. It means the job No. doesn't exist inside. And you have to input another data again.

Recall Job	
Failure	

6.2.10 Save Job Screen



Frequently used crease data can be saved and recalled, so that user don't have to input data each time. The system at most saves 30 jobs.

6.2.10.1. How to save a job?

a. Press Mode Key Monce entering Input Crease Data Screen, Let's input

a job, say, 10, 20, 30,40, 50, 60.

Input CR Data	
1)10.0	2)20.0

[3] 30. 0	[4] 40. 0	
[5] 50. 0	[6]60.0	

Then it will go back to Ready Screen.



- b. Press Mode Key 8 times, We go to Save Job Screen.
- c. Input a number between 1-30, such as 10.



d. Press Enter, Success comes out.



Note: It is quite advisable for users to remember jobs of each number, since job will be overwritten without any notice.

6.2.11 Speed Screen



1. If you want low speed, Press 1, "*" become beside "Low", Press Enter, screen jumps to Ready Screen, low speed is selected.

2. If you want high speed, Press 2, "*" become beside "High", Press Enter, screen jumps to Ready Screen, high speed is selected.

6.2.12 Recalibrate Screen

If the Crease line gap is stretched or shrinked, the crease tolerance will be accumulated as crease line increased. For a quick calibrate, we operate on

Recalibrate Screen. Press Mode Key 28 times entering Recalibrate Screen. And Length flashes.

	-
Recalibrate	
Length:	

1. Measure the true length of a paper

2. Input the true length of the paper as following (say 420mm)

Recalibrate]
Length: 420	

3. Press -, machine runs one sheet.



4. Pass the paper. And the Recalibration is done automatically.

Note: If the input date is more than 3% tolerant to the real length, it fails.

OK!	
Length:	420.0

Failure!	
Length:	420.0

6.3 Sniper Patent Technology

Using the sniper mode there is no need to input crease data one by one to create a job. Print a mark on the position where you want to crease. Machine will crease on the mark on the fly.





Input CR Data 1) 10.0 2) 20.0

Input 0 and press Enter, Use REG Mark Screen will come out.



 Input 1, "*" appears beside "Yes", Press Enter, screen jumps to Ready Screen, Sniper is activated.



2. Input 1, "*" appears beside "No", Press Enter, screen jumps to Ready Screen, Sniper is not activated.

Ready	0/0	
[1]0	[2] 0	

6.3.2 How to Use Sniper?

6.3.2.1 Read Mark and Crease Finished In One Cycle.

Use this function , all sheets have to be printed with register mark.

1. Put a pile sheets on loading table. The side with register mark must in non-operation side.

- 2. Activate Sniper as per 6.3.1.
- 3. Press Start Key to run machine. It will crease as per register mark.
- **Note:** 1. In this condition, press **Test** Key machine will only pass one sheet without crease.
 - 2. In this condition, Use <u>Read CR Data</u> to read the mark position data.
 - 3. In this condition, Use <u>Read and Test</u> to check if the crease line is matched with the mark well.

6.3.2.2 Read Mark First and then Crease.

This function is aimed to create a job quickly and crease on the sheet without register mark. You only need one sheet with register mark on it to get the data. 1. Turn off Sniper as per 6.3.1.

2. Press Mode Key twice entering Read CR Data or three times entering Read and Test.

3. Pass through one sheet with register mark. And machine will read all data.

4. Feed sheet without register mark and machine will crease as per the data.

6.3.3 How to Create a Register Mark ?

The register mark (black area) is always at right edge. The Mark only works if it is in right size and right place.



1. Mark size (L*W) should be more than 5^2 ,(L ≥ 5 , W=2.0 ± 0.5 mm). Optimum length (L) is 7~10mm. Mark right edge keep abreast with the right edge while

positioning on the template.

2. When creasing in the middle of register mark, accuracy is ±0.3mm.

3. Distance from the leading edge(D1) is over 10mm. Distance to the tail(D2) is over 50mm.

4. (1) When the distance between two mark(D) is over 5mm, the function 6.3.2.2 is available.

(2) When D is over 25mm, the function 6.3.2.1 is available.

5. All area above or the Grey Area (Area \overline{A}) should be blank, because other colour may affect the mark reader.

6.4 Hardware Settings

6.2.1 Crease Depth

Crease depth is important to crease quality. It just depends on the gap between male die and female die. Depth should be adjusted according to the paper thickness. Low Depth will perform a not clear crease. But a high Depth may cause cracking or system take it as a double feed.

The adjustment is also needed if the crease depth are not balance on both sides.



To adjust the Depth:

Open the safety cover and you will see following picture



Find 4 screws on both side, turn the Allen screw according to the label

beside to make the crease line deeper or lighter

The 3 screws in the middle are not to be adjusted

6.3.2 Front Guide Adjustment



Turn the knob clockwise to make the gap small, and vice versa. Make it small when there are double feeding, make it large when paper can not pass.

6.3.3 Air Gate Adjustment



Turn the knob clockwise to make the blow small, and vice versa. Make it small when the paper is too thin or small, make it large when paper is thick and large. The blow is a main factor for good feeding 6.2.4Stack height sensor



In Auto feed Mode, Turn the knob clockwise, the loadting table will rise higher , vise versa.

In Manual Mode, the knob should be turned to be max clockwise, or there will be error report E-2 (Elevator moter error)

Fixed side plate Skew adjust wheel

6.3.5 Skew Adjustment

If user finds the crease/perforate is skewed, you need to adjust the angle of fixed side guide to change the crease angle. As per above picture, if we turn the wheel downward, the fixed side plate will turn leftward. And vise versa. Normally, if the paper is perfectly square, it needs no adjustment.

7 OPTIONAL PARTS

7.1 Slid-in Tools



There are 2 kinds of cross bar, Crease tool and Perforate tool. To make the sliding easy, we install the screw on the bar. To insert the tool, please do as per following.



To slid out the tool, please do as per following.



For Crease tools, 1.0mm version is standard, Optional version is 0.6mm, 1.2mm, 1.5mm

For Perforate tools, there are 8 TPI , 12 TPI and 24TPI version, all are for option.

IVIC-35A

7.2.1 Introduction





Perforator

Kiss cutter

Scorer

There are 4 kinds of linear optional blades, Scorer, Perforator, Kiss cutter and Slitter. Each tool consist of blade and anvil.



7.2.2 Installation

Install the Blades on the tools mounter as follow.



Screw 1 to fix the blade with the machine.Screw 2 to adjust the tool depth of the blade, like crease depth, perforate depth, Kiss cutter depth etc. This screw is very important to kiss cutter.Mount the anvil on the outfeed shaft after it is uninstalled from the machine.1. Remove the clip at the operate side of the roller



2. Grab the shaft, pull rightward to loosen it and remove it from the machine.

3. Remove the clip from the other side, loosen the set screw of anvils and install the new anvils in order. Mind the flat part of the shaft, all set screw should touch this flat surface.



4. After anvil is mounted again, reinstall the shaft, so to the clip. Note: There are 2 thread whole in each tool, but we need only 1, The Counter roller are all different among different tools.

Kiss cutter and Slitter looks similar but cannot be interchangable or the blade will be damaged. The kiss cutter is both side chamfered, but slitter is one side.

Warranty & Incorrect Use

IMPORTANT INFORMATION

Your MC-35A should reach you in perfect condition and is guaranteed for 1 Year from date of purchase covering defective parts and general wear and tear, this does not cover film jams, misfeeds or other operator related errors, which would be chargeable. Your MC-35A is covered against manufacturing defects, it does not cover against any damages caused by misuse.

Your warranty will be void if the system has been modified by a third party not approved by the manufacturer (Vivid Laminating Technologies) to carry out such alterations.

E&O.E

