

# friends

Automatic and Semi-Automatic  
Die Cutting and Creasing Machines  
with Stripping



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# Automatic Die Cutting and Creasing Machine



High Precise Feeder



Becker Vacuum Pump



Main Body

## TECHNICAL SPECIFICATIONS

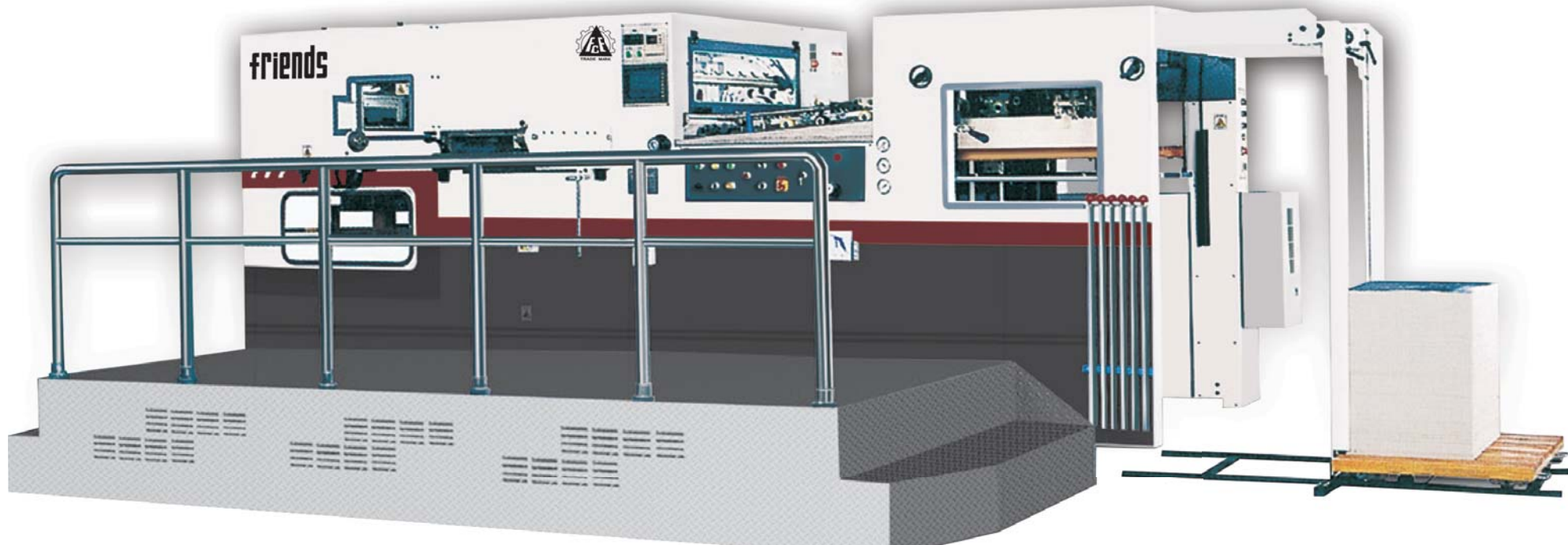
| Model   | FRIENDS 1060        | FRIENDS 1080       | FRIENDS 1100       |
|---|---------------------|--------------------|--------------------|
| Max Paper Size (mm)                                 | 1060 x 750          | 1080 x 780         | 1100 x 780         |
| Min. Paper Size (mm)                                | 400 x 350           | 400 x 370          | 400 x 370          |
| Max. Die Cutting Size (mm)                          | 1050 x 730          | 1070 x 760         | 1080 x 760         |
| Min Size of Mouth (mm)                              | 5                   | 5                  | 5                  |
| Max. Die Cutting Pressure (N/cm <sup>2</sup> )      | 350                 | 350                | 350                |
| Cardboard (g/m <sup>2</sup> )                       | 200 - 2000          | 200 - 2000         | 200 - 2000         |
| Corrugated Paper ≤mm                                | 6                   | 6                  | 6                  |
| Max. Die Cutting Speed (Sheets/Hr)                  | 7000                | 7000               | 7000               |
| Max. Feeding Pile Height (above the Level) in mm    | 1000                | 1100               | 1100               |
| Max. Collecting Pile Height (above the Level) in mm | 1000                | 1100               | 1100               |
| Power (kw)  | 13.5                | 15                 | 17                 |
| Weight (T)  | 15                  | 16                 | 17                 |
| Dimensions (mm)                                     | 5600 x 2170 x x2245 | 5700 x 2170 x 2245 | 5800 x 2170 x 2245 |

FRIENDS Automatic Die Cutting Machine is the main equipment for paper, carton, trademarks and all kinds of paper packing products die cutting.

Our machines equip with high precision intermittent structure, pneumatic plate-lock, air clutch and overload protection to ensure the high speed and high running steady of machines. And in order to make fulfill working efficiency of our machines, we also add the pre code paper part, twice paper feeding structure, variable speed paper feeding structure, auto paper collecting structure, pneumatic sampling structure, auto timing oil lubricating and the forced air cooling for main drive lubricating devices to this machine.

All our electrics and driven parts are international famous brands (SIEMENS and SCHNEIDER) so that we can ensure the high die cutting precision and steady when machines running. The PLC and electronic monitor control the system, which makes the problems adjusted and solved more easily. The electrical box is cooled by air convection device to protect the electric components running steady under the controlled temperature.

# Automatic Die Cutting and Creasing Machine with Stripping



Double Paper Pre-Alarm



Collecting Part



Servo Motor



Feeder Table

## TECHNICAL SPECIFICATIONS

| Model   | FRIENDS 1060        | FRIENDS 1080       | FRIENDS 1100       |
|---|---------------------|--------------------|--------------------|
| Max Paper Size (mm)                                 | 1060 x 750          | 1080 x 780         | 1100 x 780         |
| Min. Paper Size (mm)                                | 400 x 350           | 400 x 370          | 400 x 370          |
| Max. Die Cutting Size (mm)                          | 1050 x 730          | 1070 x 760         | 1080 x 760         |
| Min Size of Mouth (mm)                              | 5                   | 5                  | 5                  |
| Max. Die Cutting Pressure (N/cm <sup>2</sup> )      | 350                 | 350                | 350                |
| Cardboard (g/m <sup>2</sup> )                       | 200 - 2000          | 200 - 2000         | 200 - 2000         |
| Corrugated Paper ≤mm                                | 6                   | 6                  | 6                  |
| Max. Die Cutting Speed (Sheets/Hr)                  | 7000                | 7000               | 7000               |
| Max. Feeding Pile Height (above the Level) in mm    | 1000                | 1100               | 1100               |
| Max. Collecting Pile Height (above the Level) in mm | 1000                | 1100               | 1100               |
| Power (kw)  | 13.5                | 15                 | 17                 |
| Weight (T)  | 15                  | 16                 | 17                 |
| Weight Stripping (T)                                | 16                  | 17                 | 18                 |
| Dimensions (mm)                                     | 5600 x 2170 x x2245 | 5700 x 2170 x 2245 | 5800 x 2170 x 2245 |
| Stripping (mm)                                      | 7100 x 2170 x 2245  | 7200 x 2170 x 2245 | 7300 x 2170 x 2245 |



Stripping Part

- Match with the centerline registration system, molde is changed easily and accurately.
- Double action movement structure and male/female mode are available for different products.
- The edge gripper paper waste system realises the four edges waste stripping.

- Free-Pressure lead edge feeder can prevent the surface of the cardboard from damaging by leader.
- High precise servo system provide the power independently, this can assure accuration and stabilize of the cardboard.



Lead Edge Feeder



# Semi-Automatic Die Cutting and Creasing Machine



Semi-Automatic Die-Cutting and Creasing Machine is professional for cutting offset print box, combining the advantages of domestic and foreign products. There is high strength gripper, advanced open gripper structure can adapt to a variety of signal paper, corrugated board; Front, back and side gauge assure the cutting accuracy It also has intermittent mechanism with high precision, sensitive pneumatic clutch, pneumatic lock plate, PLC, HMI. Working speed, paper account, total running time are very clear on the screen; Input and output monitor make it easy to exclude the breakdowns. It adopt the frequency converter to the main motor, using for stepless governor. There are many protection sensor to ensure the workers safety. What's more, the front and back pressure can be adjusted individually, manual running is very convenient, die-cutting without clipper margin can be realized.



**Die Cutting Part**

Die Cutting Part Safety Window and pneumatic die chase locking system

Air Floation Device make the die cutting plate in and out easily.

**Electric Part**

All main electric parts are imported brands, for example : Siemens, Schneider



**Pneumatic Clutch**

Long life, low noise, brake quickly with strong driving force. It is instlled according to European exported standards.

**Main chain Drive**

The main RENOLD chain is imported from Britain that has a minimum error of length, high tensile and anti-wear.

## TECHNICAL SPECIFICATIONS

| Model  | FRIENDS -1200      | FRIENDS -1300      | FRIENDS -1500      |
|--|--------------------|--------------------|--------------------|
| Max. Paper Size (mm)                           | 1230 x 850         | 1320 x 940         | 1510 x 1120        |
| Min. Paper Size                                | 350 x 450          | 350 x 450          | 450 x 500          |
| Max. Die Cutting Size (mm)                     | 1210 x 830         | 1300 x 920         | 1490 x 1100        |
| Min. Size in Mouth (mm)                        | 8                  | 8                  | 8                  |
| Max. Die Cutting Pressure (N/cm <sup>2</sup> ) | 350                | 350                | 380                |
| Cardboard (g/m <sup>2</sup> )                  | 200 - 2000         | 200 - 2000         | 200 - 2000         |
| Max Thickness of Corrugated Paper (mm)         | 10                 | 10                 | 10                 |
| Max Die Cutting Speed (Sheets / hr)            | 4600               | 4600               | 4600               |
| Max. Feeding Pile Height mm above the level    | 1400               | 1400               | 1400               |
| Max. Collecting Pile Height mm above the level | 1200               | 1250               | 1250               |
| Total Power (kw)                               | 11                 | 13.5               | 13.5               |
| Weight (T)                                     | 13                 | 14.5               | 18                 |
| (Second Fix)                                   | 14.5               | 16                 | 19.5               |
| Dimensions (mm)                                | 4200 x 2200 x 2250 | 4200 x 2200 x 2250 | 4200 x 2300 x 2250 |
| (Second Fix)                                   | 5800 x 2200 x 2250 | 5900 x 2298 x 2250 | 6000 x 2398 x 2250 |



Push / Pull Lay



Die Cutting Section

# friends ENGINEERING COMPANY



an ISO 9001:2008 certified Company

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