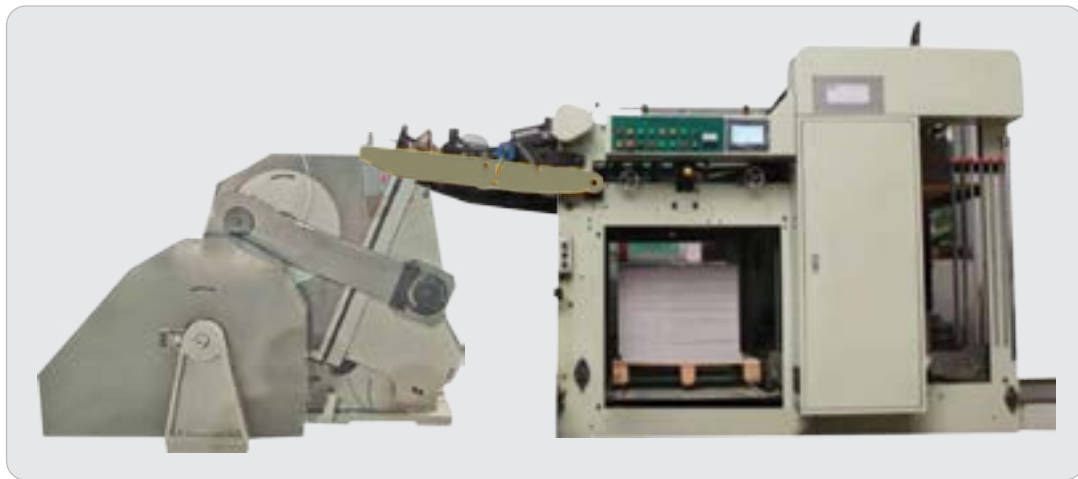


# friends



*Experience the Quality*

## HEAVY DUTY DIE CUTTING CREASING & EMBOSSING SERIES



# Automatic Die Cutting and Creasing Machine



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.

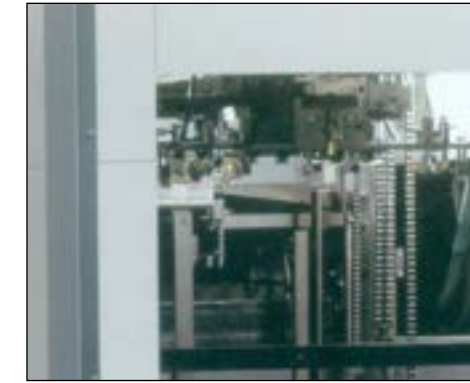
All our electrics and driven parts are international famous brands (SIEMENS and SCHNEIDER) so that we can ensure the high die cutting precision and steady when machines running. The PLC and electronic monitor control the system, which makes the problems adjusted and solved more easily. The electrical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

## Technical Specifications

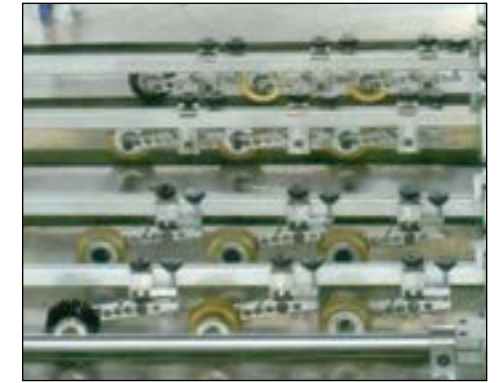
Model	FRIENDS 800	FRIENDS 1060	FRIENDS 1300	FRIENDS 1500	FRIENDS 1650
Max Sheet Size	800 × 620	1060 × 860	1300 × 950	1500 × 1100	1650 × 1100
Min Sheet Size	360 × 290	450 × 360	550 × 480	550 × 500	650 × 520
Max. Cutting Size	790 × 610	1050 × 750	1290 × 920	1490 × 1090	160 × 1180
Impression / Hr.	7500	7500	6500	5500	5000
Power Req.	7.5 H.P.	11 H.P.	15 H.P.	18.5 H.P.	18.5 H.P.
Working Pressure (Tons)	250	300	350	400	400
Weight (Tons)	12	14	18	20	22
Dimensions (mm)	4580 × 3450 × 1950	6823 × 4048 × 2182	7778 × 4379 × 2262	8891 × 4579 × 2489	9834 × 4764 × 2543



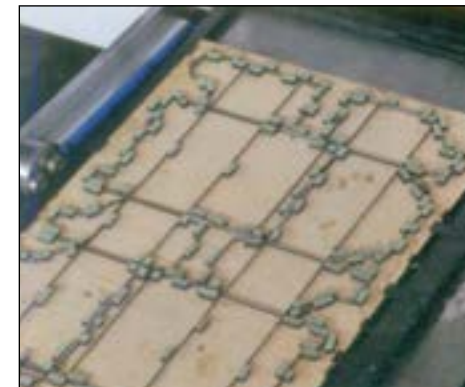
Feida head adopts European technology. The suction head can adjust various suction angles without stopping the machine according to the deformation of the paper, making the suction paper more stable. There are simple adjustment functions and precise use control functions. Both thickness and thinness, accurate, balanced and reliable paper feeding.



Triple safety protection device to prevent collision with feeder head. Fine—tune the paper stack from left to right. Powerful suction paper feeder head, four suction and four feeds, the suction head can adjust various suction angles according to the deformation of the paper; there are blowing devices on both sides to facilitate paper separation and ensure smooth paper feeding.



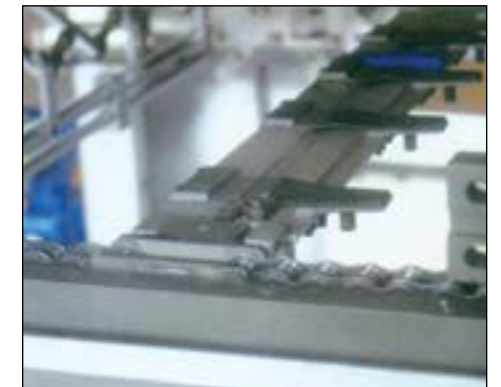
The imported paper conveyor belt is equipped with high wear—resistant paper pressing rubber wheels and wool wheels, which can easily adjust the pressure, so as to ensure that the paper is smoothly transported to the front specified position and reduce the number of stops during work.



The novel transmission realizes smooth die cutting, pneumatic plate lock, pneumatic clutch, fast and stable, and the unique die—cut plate frame can effectively prevent the die—cut plate from sagging and falling off.



Realize automatic paper collection, neat and orderly. Non—stop auxiliary paper delivery device improves efficiency. The non—stop sampling mechanism can check the die—cut paper at any time.



The tooth row body is made of special super—hard metal materials, and the surface is anodized, which can achieve precise die—cutting and embossing processes in high—speed operation, and perfect precision control. The main drive chain of the tooth row adopts Japanese chains to improve the accuracy and stability of the machine and prolong its service life.



The intermittent mechanism has large torque, high positioning accuracy, optimized operating curve and driving angle, improving the smoothness of paper running and positioning stability, and is durable, making it more stable, reliable and accurate at high speed.



Imported components are used to reduce the aerodynamic impact.



The whole machine adopts imported PLC program control, and various electrical components and detection switches are all produced by companies such as Japan, France, Germany, and Taiwan.



The professionally designed pneumatic sampling mechanism is convenient to take samples for viewing at any time during the startup process, and the operation is more convenient.



## Auto Feed Die Cutting Machine



Introducing first time in India automatic robo system feeder delivery attachment to be fixed on die cutting machine. Machine is equipped with multiple electric eyes check to reduce the paper waste. Delivery table is equipped with automatic support device. Precisely, safe and easy to operate.

The front block and side block can adjust freely in accordance with the paper size. Easy to adjust and precisely.

Collection and delivery table both adopt the vacuum inspiration to avoid the problem of the gripper biting no paper.

The device applies to common paperboard, e/b/a corrugated paper and plastic board.

Collection table & delivery table are equipped with automatic support device. Continuous operation without stop, work efficiently

The feeder part is equipped with track device, separating freely when you make plate.

The product has the advantages of low maintenance cost, high speed, convenient operation, saving labor cost and accurate paper feeding.

The feeder attachment can be attached with our latest model die punching machine to achieve the desired effect like the fully automatic flat die cutting machine. The use of the robotic feeding & delivery system makes the ordinary die cutting and creasing machine have the automatic paper feeding performance of the high speed machine, and is the most ideal feeding mechanism for the die cutting and creasing machine.

### Technical Specifications

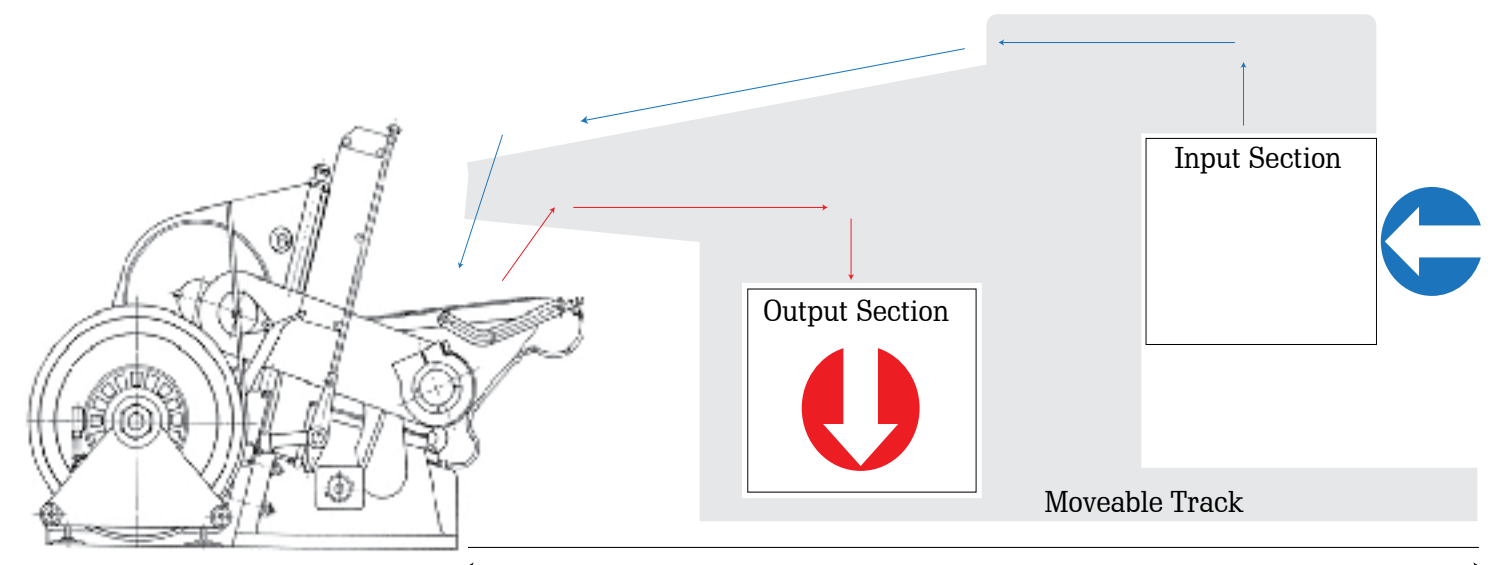
Model	Friends - 35	Friends - 40	Friends - 43	Friends - 46	Friends - 54	Friends - 57	
Platen Size	mm	635x889	711x1016	813x1092	914x1168	1016x1372	1092x1448
	inchs	25×35	28×40	32×43	36×46	40×54	43x57
Inside Chase	mm	559x813	635x940	737x1016	838x1092	940x1295	1016x1372
	inchs	22×32	25×37	29×40	33×43	37×51	40x54
Impressions / hr	2000	1850	1700	1600	1500	1400	
Power Reqd. (HP)	5+2	5+1+2	5+2+2	7.5+2+3	7.5+3+3	10+5+3	
Pressure Reqd. During Impression (Tons)	210	250	280	320	360	375	
Wt. approx. (Tons)	5.75	6.5	7.25	8	9	10	

## Auto Feed Die Cutting Machine



The Machine is composed of :

- Paper feeding unit with Safety Guard System - This unit is mainly used to Feed the sheets into the System. The Suction head collect the Sheet from the Bunch and precisely shift the sheet into the conveyor System. The safety guardrail encloses the machine's paper feeding work area to prevent personnel from entering the danger zone.
- Conveyor Belt With Roller System : This Unit is Equipped with High Wear Resistant paper Pressing Rubber Wheels & Wool Wheels Which can easily Adjust the Pressure, so as to ensure the Paper is Smoothly Transported to the Front Specified Position, Preventing the Collision of Sheets.
- Paper Replacement unit with Vacuum pump - This Unit Lift the Punched Sheet from the Machine and feed the New Sheet into the Die Cutting Machine smoothly with the help of the Pneumatic Suction Head and High wear resistant Rubber and Wool Rollers.
- Paper Output unit - All the Output Sheets Discharged From Die Punching Machine is stacked into the Tray which can be Easily Collected out. This Units is Equipped with Multi Protection Safety System to ensure Neat and Orderly collection of Sheets.







Multiple electric eyes check to reduce the paper waste. Delivery table is equipped with automatic support device. Precisely and Safely, Easy to operate.



Delivery table is equipped with automatic support device. Continuous operation without stop, works efficiently.



The front block and side block can adjust freely in accordance with the paper size. Easy to adjust and precisely.



Collection and delivery table both adopt the vacuum inspiration to avoid the problem of the gripper biting no paper. The device applies to common paperboard, E/B/A corrugated paper and plastic board.



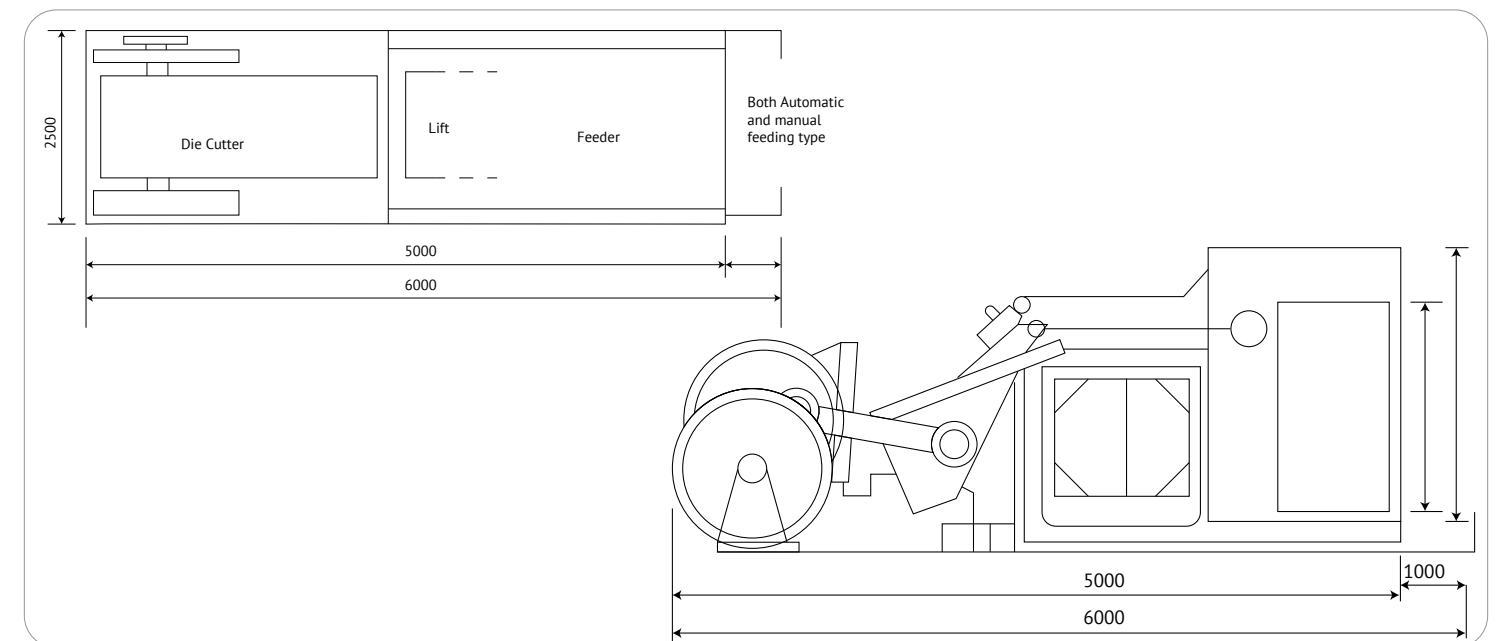
Collection table is equipped with automatic support device. Continuous operation without stop, work efficiently



The feeder part is equipped with track device, separating freely when you make plate.

### Technical Features

- The machine wall panels and main frame steel plates and profiles are connected by fastening, with reasonable structure, strong and durable, no welding, no deformation. Easy maintenance, standardized accessories, serialization
- The transmission adopts linear guide synchronous toothed belt drive along with a Gear Box Mechanism which is Silent, maintenance-free, high-precision and durable.
- The Machine is Equipped with a vacuum generator to provide suction for the nozzle, which is maintenance-free and ensures the normal operation of the nozzle. The exclusive split differential lifting paper feeding mechanism effectively prevents accidents of double or multiple sheets. The suction nozzle adopts a special suction nozzle for flat die-cutting machines, which has strong suction force and stable paper suction.
- Each machine's gas station interface has a 10MM gas pipe to the machine location, connectable with a 7.5 kW air compressor, a 6-kW power supply, and an independent air switch to the machine location.
- The machine is powered by a servo motor and runs in absolute synchronization with the digital control of the box machine.
- The machine has a simple structure and is easy to adjust. It is equipped with a non-stop paper collection function to improve work efficiency.
- It adopts PLC control and has three operating speeds: medium, high and low to cope with the processing of cardboards of different thicknesses. The 7-inch human-machine exchange interface is convenient for operation and counting.
- An electric bell is used to sound a warning when the equipment is turned on, thereby improving safety warning.
- When the cardboard is fed into the carton palletizer, the movable side stopper will correct the cardboard, and the deviation will not exceed 0.3 mm, thus improving the paper feeding accuracy.
- This machine has a partial leveling effect on corrugated cardboard, and the unevenness is within 30 mm.
- This machine adopts the ground track walking structure, which makes the main machine and auxiliary machine separated automatically. The main machine can be operated manually, which is convenient for adjusting the machine.





# Platen Punch Die Cutting Machine

Whatever your niche, the FRIENDS BRAND Platen Punch is your long run solution. The no more make-ready increases production, whether you're Die Cutting, Creasing, Half/Kiss Cutting, Embossing, Foil Stamping, or more. The machine precisely die cuts Paper, Card board, Corrugated board, Leather, MDE, Kappa Board, Foam Etc.

**Grow your business with the FRIENDS Platen Punch that fits your sweet spot!**



## Technical Specifications

Model	Friends - 35	Friends - 40	Friends - 43	Friends - 46	Friends - 54	Friends - 57	Friends - 66	Friends - 68	Friends - 76	Friends - 85	Friends - 95
Platen Size	mm	635x889	714x1016	813x1092	914x1168	1016x1372	1092x1448	1168x1676	1219x1727	1422x1930	1397x2413
	inchs	25x35	28x40	32x43	36x46	40x54	43x57	46x66	48x68	56x76	55x95
Inside Chase	mm	559x813	635x940	737x1016	838x1092	940x1295	1016x1372	1092x1600	1143x1650	1346x1854	1321x2083
	inchs	22x32	25x37	29x40	33x43	37x51	40x54	43x63	45x65	53x73	52x82
Impressions / hr		1700	1500	1400	1300	1100	1000	950	900	800	750
Power Reqd. (HP)		5	5	5	7.5	7.5	10	10	15	15	20
Pressure Reqd. During Impression (Tons)		210	250	280	320	360	375	390	395	425	460
Wt. approx. (Tons)		4	4.5	5	6	7	7.5	10	10.5	13.5	15.5
Area reqd.	mm	1880x1470	1980x1880	1960x1880	2330x1980	2280x2080	2350x2230	2410x2410	2450x2450	2670x2670	2670x2920
	inch	74x66x58	74x71x60	77x74x63	88x78x66	90x82x71	93x88x72	95x95x80	97x102x88	105x105x86	105x115x86

Note : Continuing research, development & improvement may result in specifications & appearance changes at any time. The above sizes are standardized any special size can be supplied on request.

# NO MORE MAKE READY MEANS MORE REVENUE



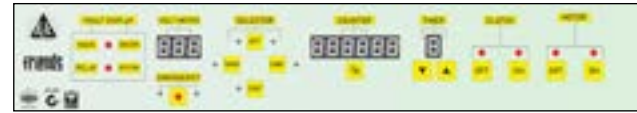
## Technical Features

- "FRIENDS" Brand Heavy duty Platen Punching Machine is designed for Die Cutting, Creasing & Embossing on Paper, Card board, Corrugated board, Leather, Plastic, P.V.C. Etc.
- The Main Platen Body is quite sturdy, ensuring smooth operations under trying condition to provide Maximum Rigidity; Platen Body Structure is carefully designed strictly in accordance to Aero Dynamic Study and calculations to withstand the heaviest loads to provide unsurpassed Cutting & Creasing Precision and many years of Reliable Service.
- Machine is Equipped with 4 No. EN Graded High Strength Steel shafts with good ductility and wear resistance characteristics. The main driving shaft is equipped with two sets of double helical self-lubricated imported Polyimide / steel pinion.
- Machine is Equipped with Both sided Helical Steel EN Graded gears of hardening steel and tensile strength along with steel pinion with main driving double set double helical steel gears.
- Machine is Equipped with Bearings from SKF/ NBC / NACHI.
- All Pins are grounded & Bushes from Phosphorus Bronze Alloy.
- Fastest Platen Opening to Provide Press Operator increased time to feed, Delivering greater productivity and more safety.
- Machine is Advanced with Quick & Simple Adjustment devices, working through Equalization of worm gears with Eccentric Bushes provided in the Cam up to microns for Left, Right, Up and Down of platen leveled to easy make ready (All Steel Graded)
- Machine is equipped with Centralized lubrication system to provide needed lubricants to machine through pipes connected to every moveable system.
- For Safety Measurements, Main Flywheel system is locked with Auto - Check nut system.
- Machine is equipped with Fail Safe combination – Electro Magnetic Clutch Break system with Adjustable system up to microns.
- Machine is equipped with main electric panel (operational & control) connected via detachable socket system with international standardized components i.e. Siemens / L&T / Schneider (France) / ABB etc.
- Machine is having quite silent running and outlook is excellent with best quality paint and powder coated fitting.
- All features that make the "FRIENDS" Platen Punching Machine most Simple, Reliable and Maintenance free.





Operational Panel Front Mounted (Detachable Socket System)



Programmable Operational Panel Front Mounted (Detachable Socket System)



Control Panel (Detachable Socket System)

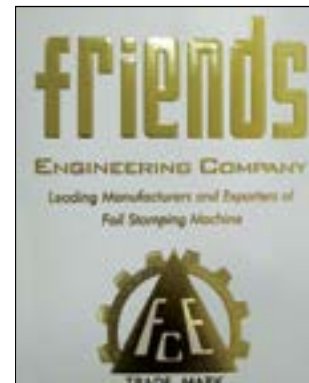


Operational Panel Side Mounted (Detachable Socket System)

# Hot Foil Emboss Die Cutting Machine

## "FRIENDS" SINGLE SHOT HOT FOIL EMBOSS MODEL WITH AUTO REWINDING SYSTEM

This Combo Machine is a comprehensive solution that Provide Single shot Foiling - Embossing & Texture Hologram Output on Duplex, Leather, PP, PVC, Kraft Paper, Kappa board, MDF, Butter paper, ETC. . Equipped with stepper motors our pulling station enables operators to handle larger foil sizes without compromising machine speed, specially designed for maximum efficiency. The honeycomb-like heater plate includes a PID temperature controller with a solidstate relay for precise temperature management. Its high-quality aluminum construction makes it lightweight, easy for operators to handle, uniformity in even heat distribution. The Machine includes an integrated control panel designed for Single/Double/Triple foil pulling stations.



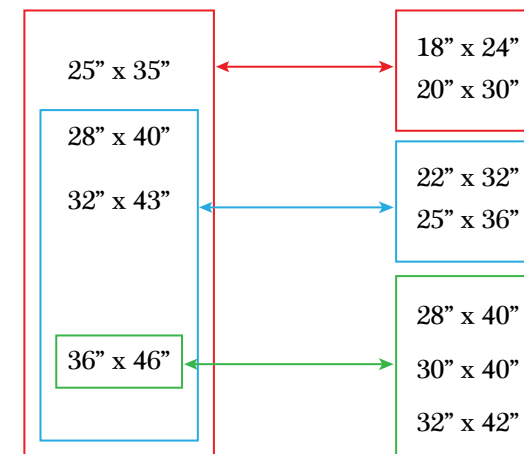
All new Self Adjustable Impression System



All New Multi-Frequency Auto Clutch - Brake System



3 in 1 Auto Lubrication Pump



Size of Die Cutting

Size of Foil Stamping Machine

Applicable sizes of Leaf Foil printing Attachments (with Single, Double, Triple Pulling System) to be attached with specific Die Punching Machine Sizes



## Thermal Die Cutting Machine

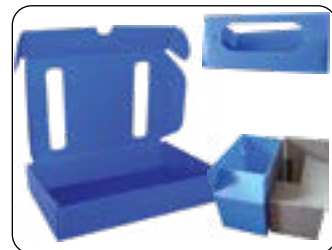
A special Machine Designed to Work on Flexible sheets of PVC, PP, Pet Sheet, BEP Sheets. Easy to Cut, Crease & Perforate without getting any Cloudy Effect and Cracks on Sheet. This Machine is Also Used to Puff the Sheets with the help of Customized Male Female Dies.

Machine is equipped with advanced Hybrid heater system with multiple chambers having separate compartments connected to independent circuit module on control panel to operate any or all the compartment at the same time with independent temperature controller to eliminate power wastage and minimize power consumption. It is Designed for maximum efficiency. Aluminum plate is affixed on the high tensile steel heating plate to provide best quality impression. This heater plate is seamlessly fitted into the Main Bed of Machine with Proper Insulation avoiding transfer of Heat on to Machine body. The Heat generated is absorbed by the Metallic Blades on wooden die. Its high-quality aluminum construction makes it lightweight , easy for operators to handle, uniformity in even heat distribution. This reduces make-ready time and ensures consistently superior.



### Technical Specifications

Model	Platen Size	Heater (KW)
Friends 35	25" x 35"	3
Friends 40	28" x 40"	4
Friends 43	32" x 43"	5
Friends 46	36" x 46"	7



## Extended Arm Platen Die Cutting Machine



Increase your productivity For Cutout on Thicker Corrugated Sheets, Honey Comb Corrugated Sheets, Foams Sheet Such as PU, PE, EVA, EPA, Latex & Polypropylene with All New Model of Friends Brand Extended Arm Platen Punching Machine.

The Machine Beds get parallel, much before compared to Regular Die Cutting Machine Enables to Solves Curve or Angular Cuttings, Results in edge quality Cutting. Apart from Advanced Structural Design of Main Body, Connecting Arms, Moving Platen, Cam Pin Set, Helical Gear Set are also Customized According to Maximum Thickness of Sheet to be used in Machine, which enables Wider Opening and Non Slanting - Non Curved Cutting Results.

### Technical Specifications

Model	Platen Size	Power (H.P.)
Friends - 35	25" x 35"	5
Friends - 40	28" x 40"	5
Friends - 43	32" x 43"	5
Friends - 46	36" x 46"	7.5
Friends - 54	40" x 54"	7.5

Model	Platen Size	Power (H.P.)
Friends - 57	43" x 57"	10
Friends - 66	46" x 66"	10
Friends - 68	48" x 68"	15
Friends - 76	56" x 76"	15
Friends - 85	55" x 85"	15



# Rotary Die Cutting Machine



## Technical Specifications

Parameter	FRIENDS - 2200		FRIENDS - 2400		FRIENDS - 2600		FRIENDS - 2800	
Sizes	1400 × 2200	1600 × 2200	1400 × 2400	1600 × 2400	1400 × 2600	1600 × 2600	1400 × 2800	1600 × 2800
Max Feeding Size	1400 × 2200	1600 × 2200	1400 × 2400	1600 × 2400	1400 × 2600	1600 × 2600	1400 × 2800	1600 × 2800
Min Feeding Size	350 × 680	400 × 680	350 × 680	400 × 680	350 × 680	400 × 680	350 × 680	400 × 680

# Our Clintage





## OUR GLOBAL PRESENCE



*Since 1960*

# friends

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**OVERSEAS EXPORTS**

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