

The technology and other Changes will not be further Informed.
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MK 1060 M/MF



The excellent new cost effective alternative

Automatic Platen Die Cutting Machine/ Automatic Platen Die Cutting Machine With Stripping

MK1060M/MF

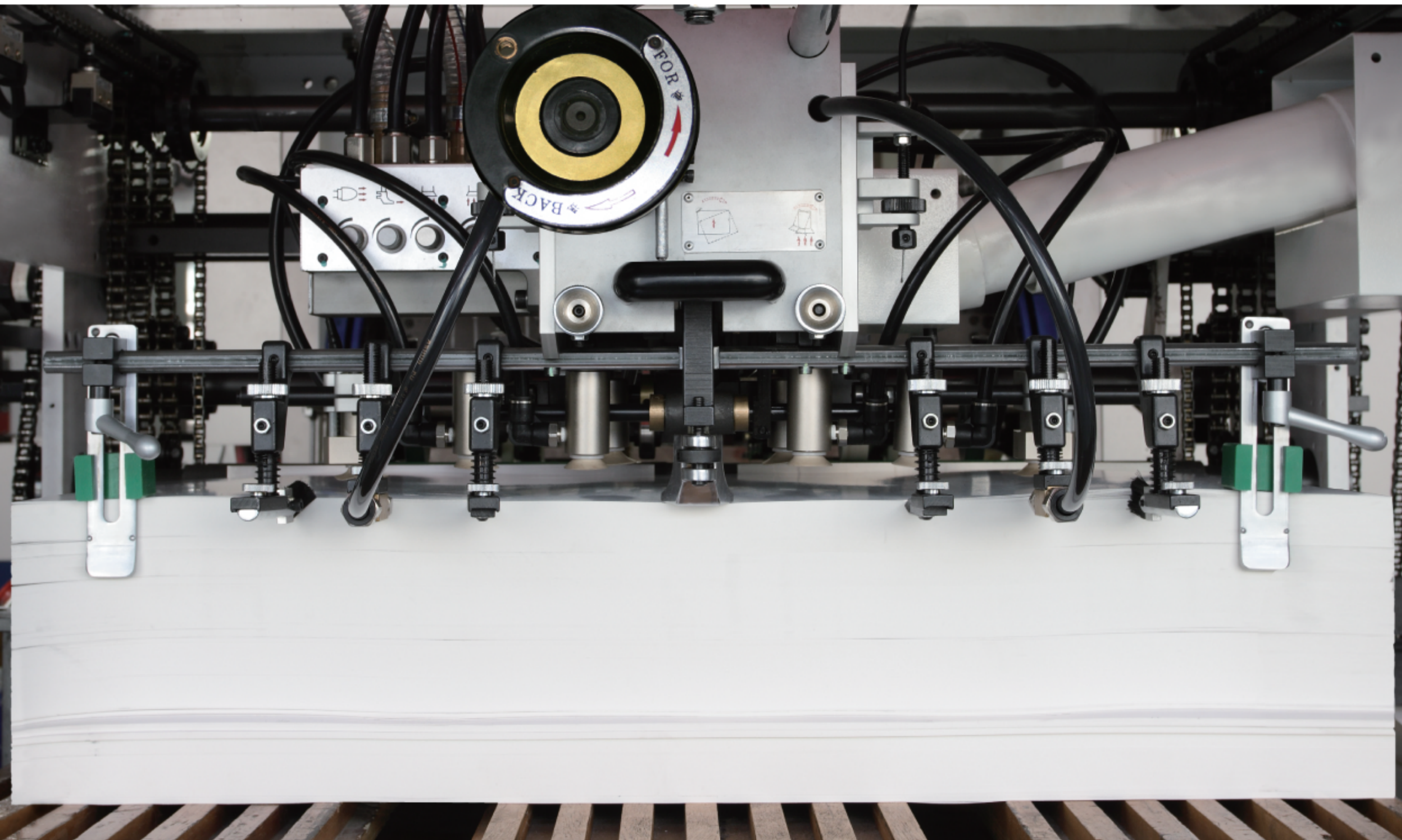
AUTOMATIC PLATEN DIE CUTTING MACHINE/ AUTOMATIC PLATEN DIE CUTTING MACHINE WITH STRIPPING

The print and packaging market changes from day to day as new products and materials are being used in complex packaging and print. High quality, speed and fast delivery are a “must” in today’s quick turn round packaging manufacturers. The companies have to be prepared for continuous large volume operation and be able to flexible to produce short term and small amount products. All of these changes make new demands on post-print finishing equipment, incl. die-cutting machines. Therefore, high accuracy and speed, user friendly and reliable operation are the standards of MK’s products.

At Masterwork Machinery, all our designs and innovation are based on our concern for customers’ success. MK1060M/MF Automatic Platen Die Cutting Machine/Automatic Platen Die Cutting Machine with Stripping assists our customers in the post print finishing business with improved performance, quality and services!



MASTERWORK



**HAS ALWAYS BEEN
AHEAD OF ITS TIME**

MK1060M AUTOMATIC PLATEN DIE CUTTING MACHINE/MK1060MF AUTOMATIC PLATEN DIE CUTTING MACHINE WITH STRIPPING PROVIDES YOU WITH:

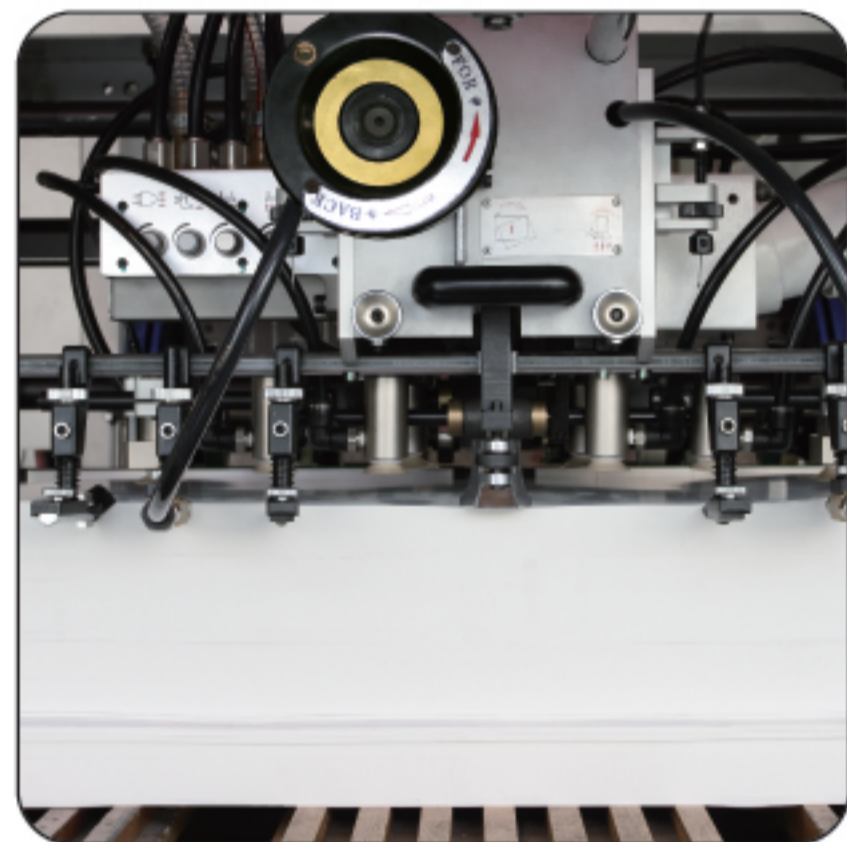
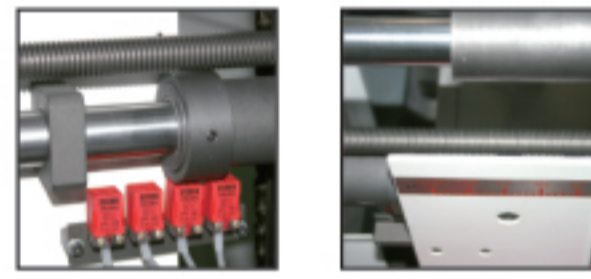
- **Shorter time for replacing plates:**
The central registering system substantially shortens the stamping plate changing time.
- **Shorter time for adjustment:**
The Plate Quick Lock Device (optional) substantially shortens the make ready time.
- **Less down time:**
The stripping pre-set stand(optional) can pre set both upper and lower stripping pins and board, for shorter make-ready time.
- **Less make-ready time:**
The 3mm+1mm steel plates improve make-ready times. The 1mm plate concept is ideal for repeat jobs and increase profitability.
- **User friendly operation:**
The electric and pneumatic functions make operation much easier and reduce the operators need for tools.
- **More direct management:**
Through the user-friendly man-machine interface, you can easily monitor and manage the production to satisfy customer requirements.
- **Greater accuracy:**
It is of an optimized structure design, with patented accuracy guarantee and a low material waste rate.
- **More safe features:**
The CE certification has been passed, with more guarantees for both workers and machines and more confidence for operation.

MK1060M AUTOMATIC PLATEN DIE CUTTING MACHINE/MK1060MF AUTOMATIC PLATEN DIE CUTTING MACHINE WITH STRIPPING



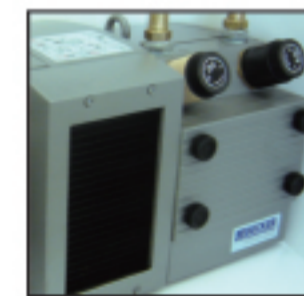
SHEET FEED SECTION

3 measures prevent feeder from crash. Left-right manual fine adjustment device is applied for paper pile. The powerful feeder is equipped with 4 lifting suction cups and 5 carrier suction cups; the directions of suction cups are adjustable according to the paper deformation. Blowers on both sides of the feed system separate the papers for smooth feeding process.



FEEDER

The high-speed feeder is made of lightweight aluminum alloy with anode treatment on the surface. The forward, backward, high and low positions can be adjusted according to the stock: for smooth feeding of thin paper, large gram cardboard, corrugated paper, etc. The feeder is equipped with a quick adjustment device making the feeder more user-friendly. There are 3 detectors to prevent the feeder from damage if the feeder pile accidentally ascends beyond the safety point.



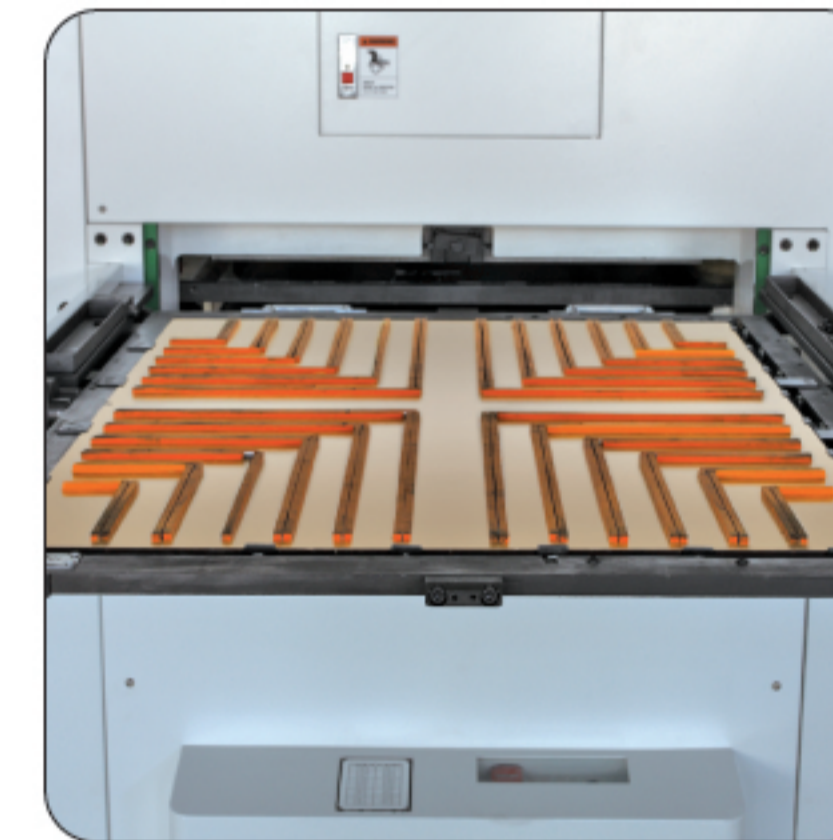
FEED TABLE

A timing belt is used for the feed table which improves presentation to the front and side lays. The slow-down device is useful when feeding thin paper. Sheet detectors and control systems reduce paper waste. The side guides can be changed from push to pull by the simple adjustment of one screw.



SINGLE-POSITION ENGAGEMENT CLUTCH

This clutch makes it possible to run the feeding and platen press sections separately in the setup of a new job. When an emergency stop occurs the clutch enables the platen press section to keep on running at a gradually reduced speed so that after the error is corrected and the machine is restarted, the die cutting unit can resume its speed in a very short period of time and the first sheet can be fed to the exact position at the die cutting unit. This clutch reduces time in the setup of a new job and decreases waste paper.



PLATEN PRESS SECTION

The worm wheel and worm set products are imported from Taiwan whilst the crankshaft is manufactured in our own machining center. The key transmission parts provide our customer with reliability and durability. The platen walls and seat are made of ductile iron in line with British Meehanite casting standard.



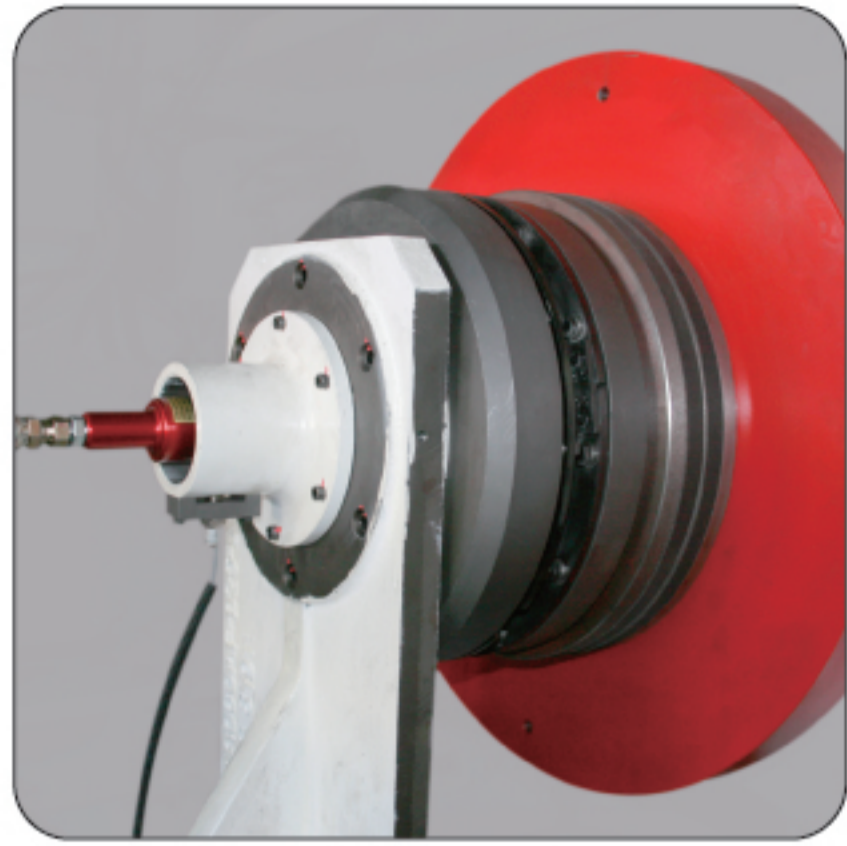
MOVABLE PLATEN

The movable platen is made of special casting structure, with reliable strength to bear the operating pressure. The precision machining procedures ensure the platen's flatness and balance, this can shorten pressure adjustment time. The plate position detector ensures correct position and the pneumatic locking device eliminates the need for tools.



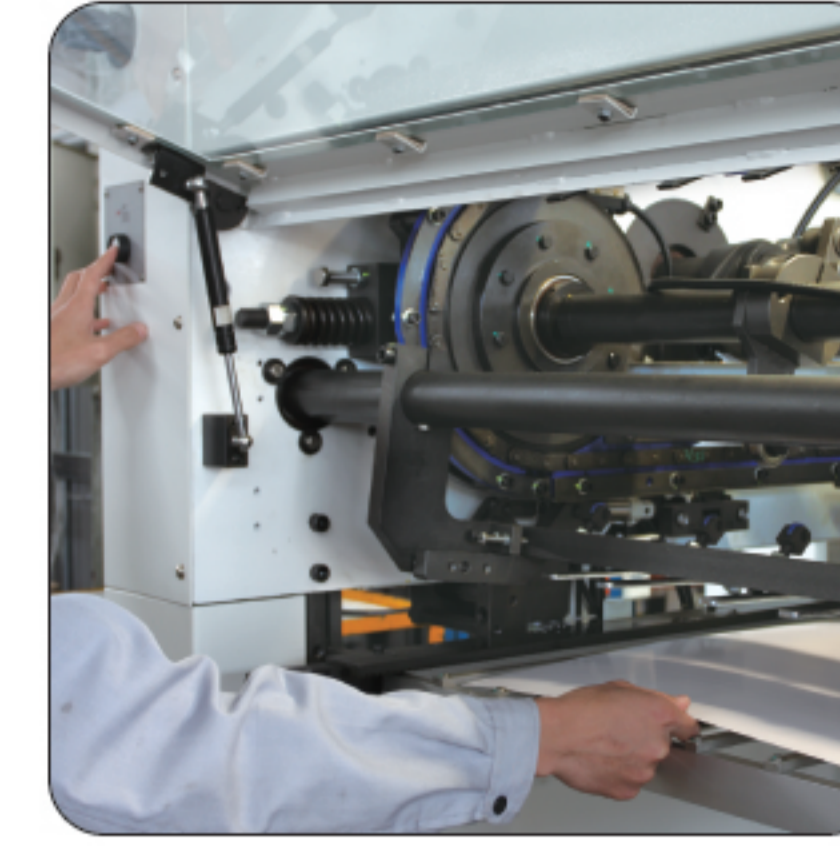
LOWER SUPPORTING PLATE

The lower plate is made with high-quality imported materials. The 3mm+1mm steel plates improve foiling and embossing make-ready times. The 1mm plate concept is ideal for repeat jobs and increase profitability. The lower plate is equipped with a fine adjustment and central registration system which reduces plate changing and positioning dramatically.



PNEUMATIC CLUTCH

The imported high quality pneumatic clutch reduces noise and minimizes impact when stopping the machine at a high speed.



SAMPLING FUNCTION

The pneumatic sampling unit has been designed as a user friendly system for checking finished product without the need to stop the machine.



STRIPPING SECTION

The high quality transmission mechanism and cam movement curve provide stripping stability and accuracy. The central registration system used for the stripping boards provides accurate positioning and easy adjustment. The pneumatic raising device for upper stripping board creates more internal working space.



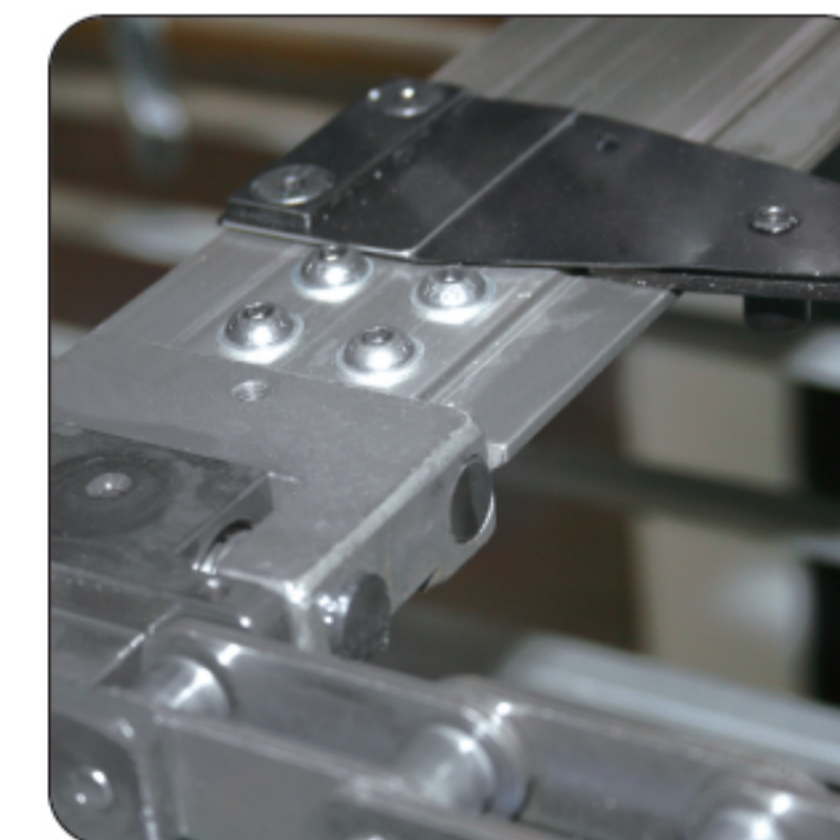
COMPONENT QUALITY

All key components are made by Masterwork Machinery own machining center, with strict control at each step. The PDM software is applied to ensure the design requirement and machining quality of key components. MK machining center owns most CNC equipments with high quality among all competitors in China. 20 CNC machines now and equip with grating scale and close-loop control system to provide accuracy during manufacturing.



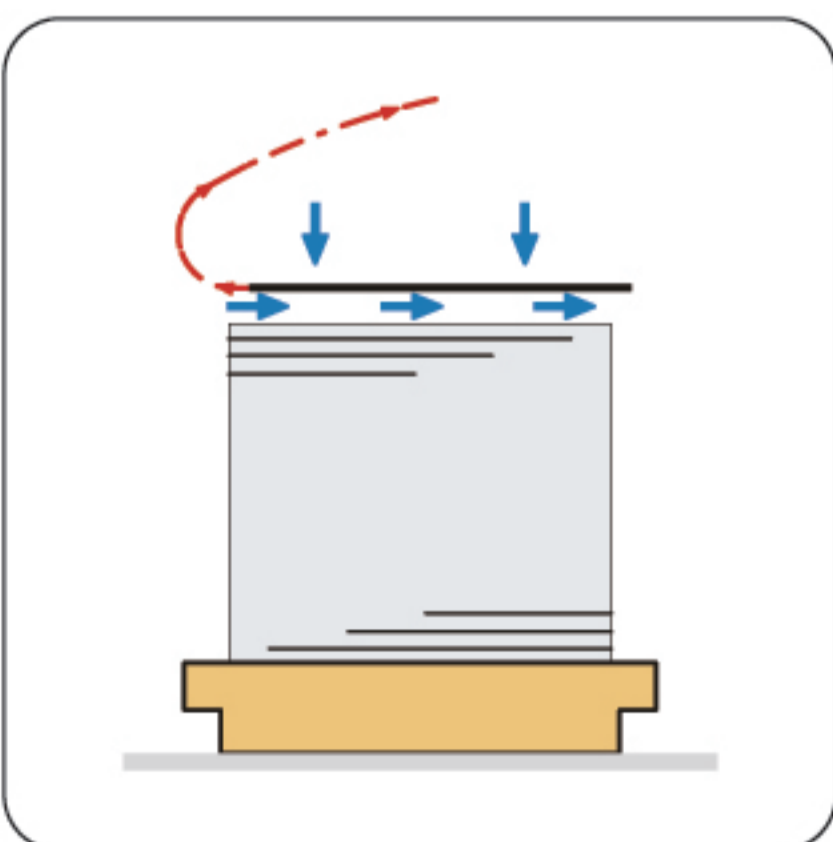
SHEET DELIVERY SECTION

An adjustable air blow-down system and air curtain helps delivery of the sheets from the gripper bars resulting in accurate stacks of finished product. For thin paper, a braking brush slows down sheets after they are released from the gripper bars. There is also a pneumatic sampling device in the delivery which allows the operator to check finished product without stopping the machine. The optional non-stop delivery device (patent ZL200520130714.0) allows the finished stack to be removed from the machine while the machine is still in operation.



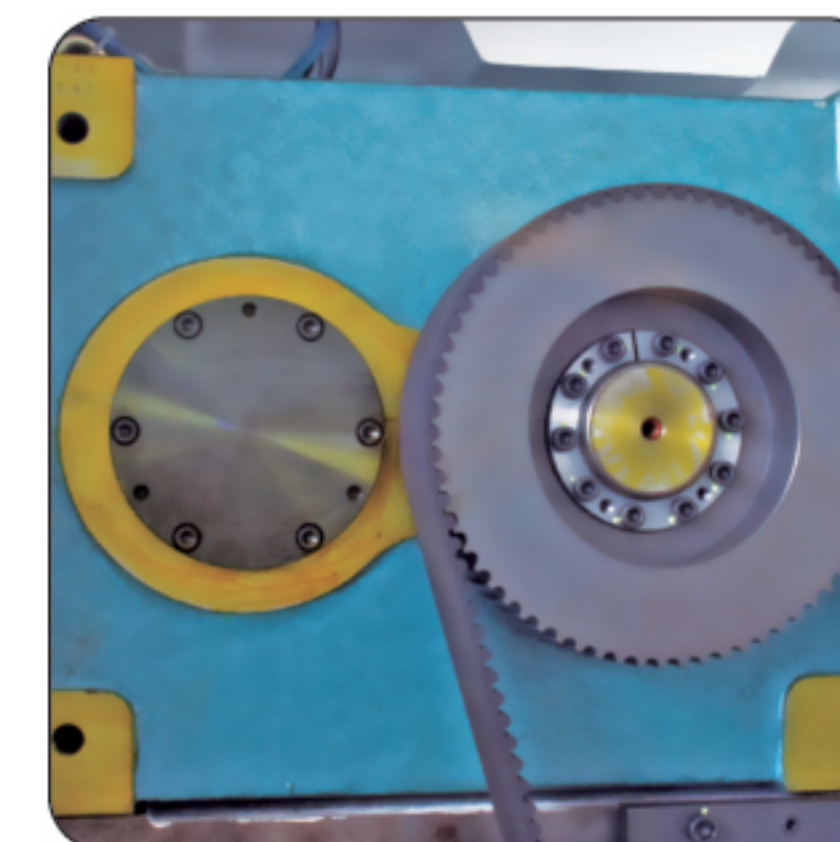
GRIPPER AND CHAIN

The grippers are made of special extra hard aluminum alloy, with anode treatment on the surface, ensuring accurate die cutting and embossing, etc. at high speed. The adjustment mechanism, patent design (patent No. ZL01267630.6) guarantees very accurate control. An imported chain is used for the main gripper transmission, with strength increased by 45% for accurate stability and prolonged life.



AIR CURTAIN IN DELIVERY

The dual auxiliary blowing device creates an air cushion on the paper pile for smooth paper delivery. The air volume of both sides can be controlled independently. The upper blowing tube can be adjusted outside the machine as per paper sizes, for operator convenience.



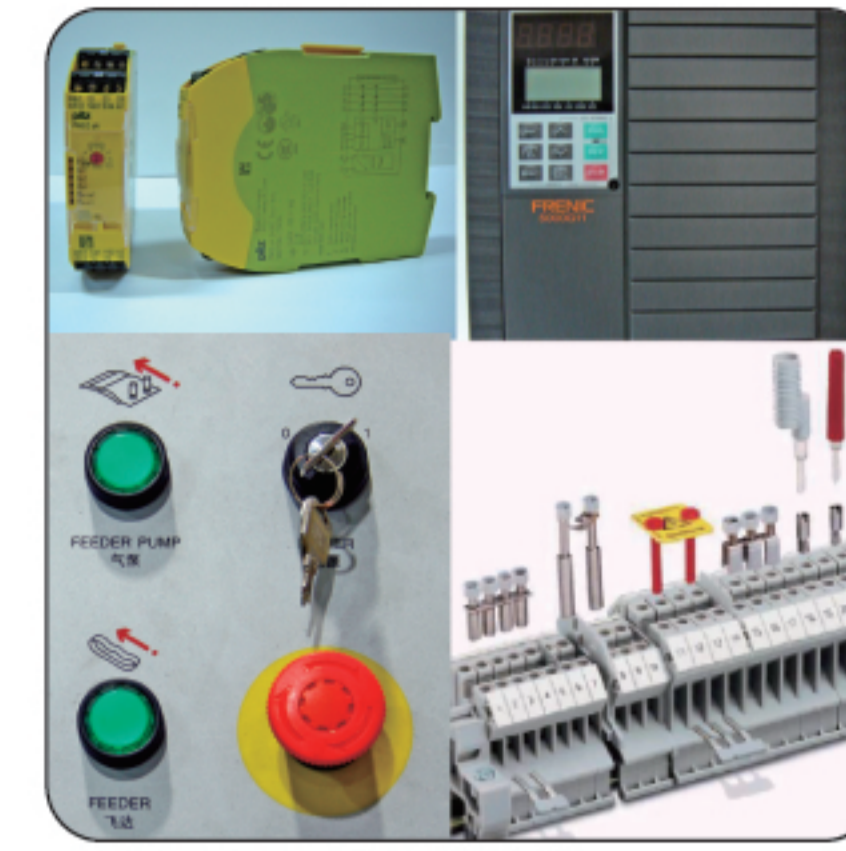
HIGH SPEED INDEXING DEVICE

The intermittent mechanism has large transfer torque, high positioning accuracy and excellent durability, making high-speed operation possible and long operating life of the machine. This intermittent mechanism has an inbuilt torque limiter that stops the gripper bars immediately and disengage the electromagnetic clutch on the main motor when an overload occurs.



LUBRICATING SYSTEM

With a programmable lubrication system, the accurate control of PLC ensures balanced lubrication of the whole machine.



ELECTRONIC MANAGEMENT SYSTEM

The Fuji vector transducer uses the most up to date mechanical features for constant speed and torque control, with strong pressure alarms, reliable performance and low breakdown rate, which satisfies customer demands. The top quality European imported parts are used to provide safe operation of the system.



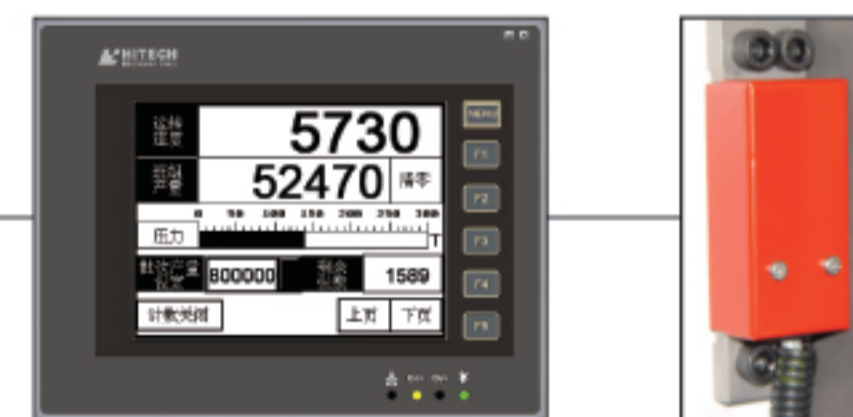
CONTROL AND SAFETY SYSTEM

The machine has passed the CE certification of German Rheinland TUV. The system uses top class European safe circuit modules of Class 4 protection, with dual loop wiring for more safe control. With the Japanese Mitsubishi PLC, the speed of calculation and operation is much faster and more reliable, implementing all actions simply and flexibly. The modular design makes maintenance more simple and convenient. There are around hundred detectors on the machine for more reliable safety.



OVERLOAD PROTECTOR

An imported pressure sensor is used for detecting side wall deformation. It gives a warning when the machine reaches its maximum pressure limit, this ensures machine safety.



TORQUE RESTRAINER

It is of high sensitivity, for safety of both the machine and operators. It is made professionally for prolonging the life of the machine.

TECHNICAL DATA

Max sheet size	1060mmx760mm	41.73x29.92 (in)	Max feeder pile height	1150mm (wooden pallet included)	45.28 (in)
Min sheet size	450mmx360mm	17.72x14.17 (in)	Max delivery pile height	1000mm (wooden pallet included)	39.37 (in)
Max die cutting size	1045mmx745mm	41.14x29.33 (in)	Main motor wattage	11 KW	
Gripper margin	9~17mm	0.35~0.67 (in)	Overall dimension	7230mm(L:Pre-load paper device included) X4550mm(W:Platform included)X2050mm(H) (MK1060MF)	24x15x7 (ft)
Inner chase size	1120mmx786mm	44.09x30.94 (in)		6240mm(L:Pre-load paper device included) X4550mm(W:Platform included)X2050mm(H) (MK1060M)	21x15x7 (ft)
Stock range	90~2000g/m ² paper		Net weight approx	MK1060M about 15 tons	
	0.1~2mm paper	0.0039~0.078 (in)		MK1060MF about 17 tons	
	≤4mm corrugated	≤ 0.160 (in)			
Die cutting accuracy	≤ ± 0.075mm		Full load wattage	16.9 KW	
Max die cutting force	320 tons		Air requirement	0.6~0.7Mpa, ≥0.37 m ³ /min	
Max die cutting speed	7700 s/h	Die cutting	Power supply	380V ± 10%/50Hz/3-phase with grounding	

OPTIONAL ACCESSORY

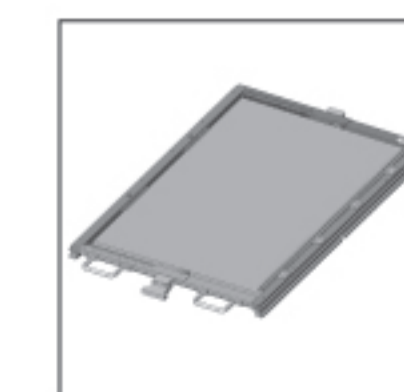
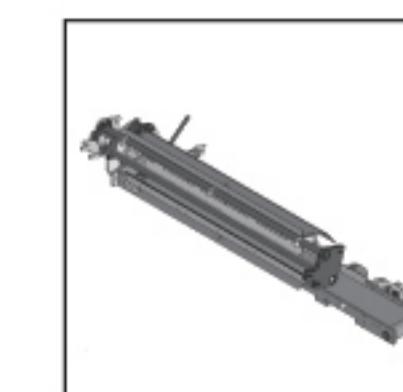
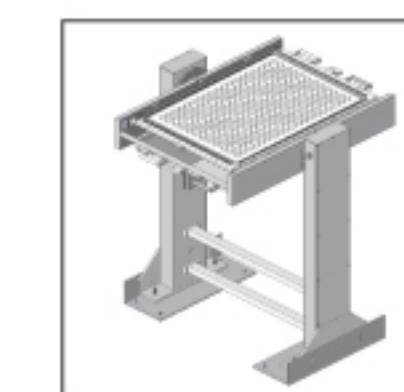


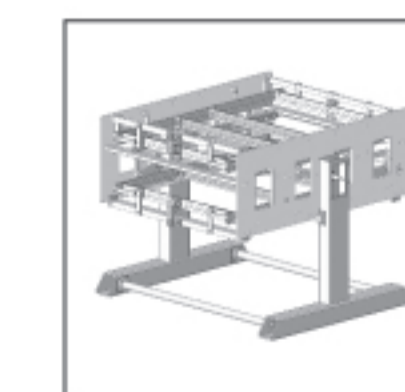
Plate Quick Lock Device



Gripper Cleaning Device



The Chase Preparation Stand



The stripping preparation stand



Pneumatic Side Guide



Vacuum Feeding System