

TYM1050-H Auto Foil Stamping & Die-cutting Machine

● Picture



● Features:

TYM1050-H automatic foil stamping and die cutting machine is mainly used for the die cutting, creasing, foil stamping, cold and hot embossing of cigarette box, drug box, wine box and label in the packing and decorating industries.

This kind of machine is a new generation of foil stamping series on the basis of TYM1050, it's incorporated with fully automatic feeding, die cutting, stamping, delivering foil, delivering sheet, up-press, down-press, and leap step, counting, heating, pre-heating, and obstacle indicating, checking and measuring. It has the features of easy operating, reliability, high speed, press and precision.

Video link: <https://www.youtube.com/watch?v=tt9YjQ9n96U>

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● Specification

Max.paper size(mm)	1060×760mm
Min.paper size(mm)	450×370mm
Max.cutting size (mm)	1050×750mm
Max.stamping speed(mm)	1030×700mm
Electrical heating power(kw)	16.8kw
Heating temperature()	0-199
Max.foil length (mm)	210mm/3" Core volume100mm/1" Core volume
Pressure(t)	300T
Max.cutting speed (s/h)	7000s/h
Max.stamping speed(s/h)	5000s/h
Total power (kw)	41.5kw
Net weight (t)	20T
Sheet thickness (mm)	Cardboard:0.1-1.5mm

● The list of main import units:

- a. PLC
Main unit: Omron, Japan
Expansion: Omron, Japan
- b. Vary speed: Yaskawa, Japan
- c. Human machine interface: Hitech, Taiwan
- d. Main feeder motor: Omron, Japan
- e. Non-stop feeder motor: Pension, Taiwan
- f. Delivery motor: Pension, Taiwan
- g. Adjusting motor: Pension, Taiwan
- h. Servo motor: made in Japan
- i. Button: Schneider, France
- j. Circuit breaker: Siemens, Germany
- k. Limit switch: Omron, Japan
- l. Photo-electric switch: Omron, Japan Contrinex Switzerland
- m. Proximity switch: Omron, Japan Contrinex Switzerland
- n. Gearing (main place): NSK, Japan

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- o. Intermittent construction: DEX. Taiwan
 - p. Main chains: IWIS, Germany
 - q. Other chains: Taiwan
 - r. Socket head cap screw ,Cylindrical screw: Taiwan

● Features of units

1. Feeding unit

- (1) Main and auxiliary feeding devices are used to accomplish non-stop feeding.
- (2) Feeding head with special design ensures continuous feeding of sheets for different thickness and materials.
- (3) It's easy to operate adopting sheet-conveying frame which can be lifted up.
- (4) Double-sheet detector is used to control double-sheet and reduce waste.
- (5) There are 4 front lay installed 4 approach switches which are used to check if the sheet reaches the right position, so the waste products are avoided, you can easily to adjust them through the knob outside the machine.
- (6) Adjusting hand-wheel is installed on the feeding board which is used to mini-adjust the feeding time to coordinate the die cutting time.
- (7) The left and right side lay are used with two functions of push and pull, which is easy to change; the position and press of side lay can be adjusted to fit for the side registering of sheet of different size and thickness.
- (8) Over-high preventing device is installed on the feeding head to prevent it from damage.
- (9) Adjusting hand-wheel of lay is installed on both sides of feeding units, which is easy to locate pile.
- (10) The feeding pile can rise up automatically.
- (11) Up and down- limit switch are installed on inner side of wall frame, ensuring the pile can stop automatically at the highest or lowest location.

2. Die cutting unit

- (1) The machine can keep running stable even under high speed and long life by adopting the driving of big modulus worm shaft and worm wheel.
- (2) 230° big angle intermittent device is used to ensure the running stability, low noise and long life.
- (3) The die cutting frame is used to install die cutting plate, the quick-locking device on it can easily lock die cutting plate of any size.
- (4) The die cutting frame is installed on the machine, it has precise registering system and easy to lock or loosen, it can be turned over to change or adjust die cutting plate

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with the use of supporting arm.

- (5) The registering system accomplishes re-registering of sheet from the front and side direction, ensuring high precision of die cutting.
- (6) Auto. Press-adjusting device is adopted which makes the press adjustment of the machine more easily, and effectively prevents the idle-stamping of aluminum foil.
- (7) The steel plate is made of high hard and elastic materials, smooth and durable; it also has registering device to ensure exact registration.
- (8) The main driving adopts auto. Lubricating system which extends the life of main units.
- (9) The gripper bars are made of alloy aluminum, running stable and without quivering.
- (10) Pneumatic plate-locking device is equipped which improves the level of automation.
- (11) The main driving chain adopts big-pitch chains, which reduces the inertia of running, improves stability of precision, force moment controller is used which improves the coefficient of safety.
- (12) The front-and-back registration of gripper bars adds adjustable device, convenient to register the precision of front lay.
- (13) The front lay adopts numerical control from former adjustment by hand, convenient and audio-visual.
- (14) Cooling device for lubricating oil is added which reduces the wear of parts when they are heated, ensures the constant pressure of die cutting and foil stamping.

3. Foil stamping unit

- (1) The electric-heating plate adopts heatproof cast iron, without deformation; its 12 heating zones can be controlled separately.
- (2) The honeycomb plate also adopts heatproof cast iron, it's processed by imported equipments which ensures high smooth, reasonable layout is convenient for the installation of foil-stamping block.
- (3) The machine installs 5 groups of foil step-rollers which are controlled by 5 servo-motors, you can accomplish leap step and step function at the same time or separately.
- (4) Many rubber press-wheels are installed on every step roller, easy to move, convenient to install or press.
- (5) Foil running is very sharp, longitudinal and lateral running of foil making foil stamping more easily and more foil can be saved.
- (6) Blowing system has the function of blowing flat and separating which ensuring foil stamping quality of then paper, and it also solves the difficult problem of separating for large layout stamping.

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- (7) Tension controller ensures the constant tension effectively.
- (8) The longitudinal foil-delivering unit can be pulled out when you install the foil, convenient for operation.
- (9) Foil-stringing device by hand is used which improves the efficiency of work.
- (10) The registration of foil stamping steel plate adopts side-press registering structure, which improves the accuracy of repeat registration.

4. Delivering unit

- (1) It accomplishes automatic delivery.
- (2) Delivering railings ensures non-stop delivery, when the pile reaches a certain height, insert the railings into the pile then you can change the pile without stopping the machine.
- (3) Side and back joggers ensures the neat of delivery, delivering brush and turning plate can avoid quivering and loosening of sheet, every position of device can be adjusted to fit processing of different layout.

5. Electrical unit

- (1) The electrical system adopts such advanced control devices as PLC, Interface.
- (2) The interface monitors the input, output points of PLC, all kinds of troubles, double languages (Chinese, English) make the workers convenient to operate machine or solve stoppage.
- (3) The main motor is controlled by vari-speed, running stable and saving electricity.
- (4) The main driving adopts pneumatic brake, running safe and reliable.
- (5) Many photo-electric switches are installed at the feeding, die cutting and delivering unit, which ensures the safe running of machine.
- (6) Heating, foil stamping and all kinds of leap-step are controlled by industrial computer; you can be convenient to accomplish date-inputting and setting reference by multi-media technology.
- (7) The machine sets many operating panels in order to control it from different place such as feeding unit, driving side, operating side and delivering unit.
- (8) The machine adopts three phase, four wires, power supply for AC, 380V, 50HZ, equips special safe wire PE.
- (9) The foil stamping system has powerful function to check itself, such as checking the stoppage of servo-motor, thermo junction, inner system and foil breakage.
- (10) Safe switches are set on every unit, which ensures safe operating, the safety facilities coincide CE standard of Europe.
- (11) Cooling device for electrical box is added which improves the life of electrical parts.

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● Enclosure

Serial NO.	Name	Quantity	addition
0101021106	Rubber ring of sucker	8	
010107050	Small brush	2	
01050131	Left push guide	1	
01050206	Right push guide	1	
GB825-76	Ceiling screw	4	M24
GB825-76	Ceiling screw	4	M36
020309	Steel plate	1	
02041700	Combined iron chase	1	
02042000	Combined honeycomb plate	2	Including the one in the machine
	Combined gripper bars	1	Finished assembling
03093500	Delivering plate	2	
	clamp	200	four type, 50 of every type

Name	quantity	addition
Special wrench	1	
Manual driving handle	1	
Special wrench	1	
Special wrench	1	
Double-head wrench	1	5.5x7、8x10、12x14、17x19、22x24
Inner hexagon wrech	1	3、4、5、6、8、10、12
Press oil gun	1	
Special spanner for foil stamping	2	

Plate-making materials

1. Hard plywood: 18mm thickness
 Cutting rules: 23.8mm height
 Creasing rules: 23.24mm thickness and height according to the material being processed.
2. In order to make the processing of die cutting smoothly and continuously, stick forming rubber pads on either sides of cutting rules and creasing rules.
3. The foil stamping block adopts 7mm copper materials.