

MHK-820T

Fully Automatic Hot Stamping Flatbed Die-cutting Machine



TECHNICAL PARAMETER

MODEL	MHK-820T
Max. Paper Size	820 × 600 mm
Min. Paper Size	310 × 260 mm
Max. Die-Cutting Format	800 × 580 mm
The Largest Bronzing Format	800 × 600 mm
Mouth Blank	9-17 mm
Inner Board Size	910 × 605 mm
Paper Specifications	90~2000g/m ² (cardboard), 0.1~2mm (cardboard), ≤4mm (corrugated paper)
Die Cutting Accuracy	≤±0.1mm
Ordinary Ironing Precision	≤±0.1mm
Holographic Positioning Accuracy	≤±0.1mm (optional)
Working Pressure	200 T
Working Speed	7500 s/h (die cutting); 7500 s/h (hot stamping)
Max. Paper Height	1500 mm (including wooden pallet)
Max. Delivery Height	1300 mm (including wooden pallet)
Maximum Gold Foil Diameter	250mm horizontal, 200mm vertical
Electric Heating System	20 temperature zones, 40-180 °C adjustable
Aluminum Foil Width	20-780 mm
Overall Size	6579 × 3826 × 2388 mm (L×W×H) (long with pre-loading track; wide with foot pedal)
Total Machine Weight	14,5 T
Main Motor Power	11 W
Full Load Power	52 Kw
Gas Source Requirements	Pressure: 0.6~0.7Mpa, Flow: ≥0.37m ³ /min



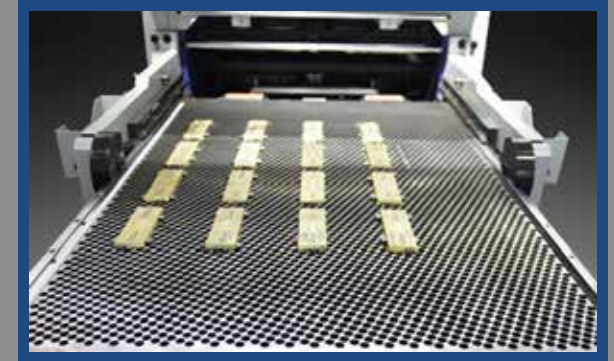
Feida

The high-speed paper feeder head can be adjusted freely according to the paper condition.



Paper Feeding Table

Adopt gas spring auxiliary power, in-position deceleration mechanism device, and the paper pressing frame is equipped with an integral adjustment paper pressing wheel device, which is convenient and quick to adjust.



Fine-Tuning Honeycomb Panel in Bronzing Department

20 independent temperature zone control system, effectively control the heating temperature of the bronzing plate. Ensure that the temperature control of the entire heating system is more balanced and stable.



Foil Putting Department

The independent feeding system of three vertical and two horizontal aluminum foils ensures stable and accurate transportation of electrochemical aluminum at high speed, reliable tension control, and small aluminum foil stretching.



Fine-Tuning The Die-Cut Bottom Plate

The central positioning structure (3.5mm+1.5mm) of the combined lower backing plate has a fine-tuning function to facilitate the adjustment of the bottom mold.



Synchronous Belt Drive, Intermittent Mechanism

Taiwan's high-precision intermittent divider can ensure high positioning accuracy even after long-term use.



Main Engine Lubrication Mechanism

The automatic pump oil circulating cooling device imported from Taiwan ensures the lubrication of the main engine running at high speed for a long time. Equipped with oil pressure display and abnormal oil pressure alarm device.



Receiving Department

Rolling curtain type auxiliary paper-receiving rack can realize non-stop paper-receiving, paper-receiving two-way auxiliary blowing, manual sampling mechanism, easy to operate.



Electronic Control Department

This machine adopts electrical components from Germany's Muller and Japan's Omron, which is easy to operate and easy to maintain.



German Vacuum Pump

Germany BECKER oil-free blowing and suction dual-purpose vacuum pump.



Automatic Fuel Supply System

The whole machine adopts a centralized automatic oil supply system to ensure that the transmission parts are not short of oil.

CONFIGURATION ITEM

Paper Feeding Department

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|---|---|
| <i>01. Integral conveying wall panel of ductile iron.</i> | ● |
| <i>02. Fish scale type powerful suction paper feeder head, 4 suction 4 feeds, the suction head can adjust various suction angles according to the deformation of the paper.</i> | ● |
| <i>03. Adjustable suction tube, suction head and air valve are treated with super hard alloy.</i> | ● |
| <i>04. 3 Doofy head anti-collision device.</i> | ● |
| <i>05. Horizontal paper separating and blowing device.</i> | ● |
| <i>06. The main and auxiliary stackers do not stop alternately, and the feeder does not stop operation.</i> | ● |
| <i>07. Electric left and right fine-tuning device for main feed stack.</i> | ● |
| <i>08. The pre-stacking device is equipped with a track so that the operator can accurately and conveniently feed the paper stack into the feeder.</i> | ● |
| <i>09. Push-pull dual-purpose side gauges, one set for operation side and transmission side. Side gauges can be adjusted between push and pull gauges to meet different paper needs.</i> | ● |
| <i>10. Side gauge and front gauge paper photoelectric detection.</i> | ● |
| <i>11. The function of reducing the speed of paper feeding when the paper reaches the front rule.</i> | ● |
| <i>12. Electromechanical double sheet detector.</i> | ● |
| <i>13. Imported paper conveyor belt and stainless steel conveyor plate.</i> | ● |
| <i>14. Pneumatic lifting device for paper feeding frame.</i> | ● |
| <i>15. Single-Point Clutch: The conveying part and the host part can be separated and synchronized at any time, which simplifies and facilitates the operation sequence. Regardless of proofing, test pressure, etc., the conveying part can be separated and closed at will.</i> | ● |
| <i>16. PLC and electronic cam control the timing of the whole machine.</i> | ● |
| <i>17. German Baker brand blowing and suction dual-purpose vacuum pump.</i> | ● |

CONFIGURATION ITEM

Die Cutting Department

01. The main body of ductile iron, the left and right wall panels, the upper platform and the lower moving platform.	●
02. Imported worm gear, worm and 40cr crankshaft.	●
03. Die-cutting bottom plate and knife template rotating device.	●
04. Lubricating oil automatic cooling and lubrication system in the main transmission box.	●
05. Imported torque limit overload protector.	●
06. Servo motor pressure regulating device can realize accurate pressure control through PLC touch screen buttons, and the adjustment is accurate to 0.01mm.	●
07. A complete set of imported anodized aluminum alloy tooth rows and 5 groups of positioning structures, each tooth row adopts an adjustable tooth row structure.	●
08. Servo control system is used for positioning after the tooth row, and the accurate accuracy of each tooth row can be adjusted through the PLC touch screen buttons to ensure the accuracy of the tooth row, which can permanently reach an accuracy of $\pm 0.1\text{mm}$ (patented product).	●
09. Imported main drive chain.	●
10. Imported intermittent divider.	●
11. Imported synchronous belt and pulley drive.	●
12. Main drive imported pneumatic clutch brake device.	●
13. Japanese SMC air pressure detection device, alarm when air pressure is too low.	●
14. The center positioning structure (3.5mm+1.5mm) of the combined lower backing plate, with fine-tuning function, to facilitate the adjustment of the bottom mold.	●
15. The die-cutting plate frame adopts the device structure of the center line quickly positioning.	●
16. The die-cutting frame and the die-cutting lower backing plate are locked by Japanese SMC air volume regulator to avoid the situation that the upper frame is locked and installed incorrectly, and effectively avoids the loss caused by human factors.	●
17. Siemens brand main motor drive.	●
18. The whole machine adopts a centralized automatic oil supply system to ensure that the transmission parts are not short of oil.	●
19. Equipped with gas storage tank to ensure stable air pressure of the whole machine.	●

CONFIGURATION ITEM

Receiving Department

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| <i>01. Paper-receiving left and right wall panels of ductile iron.</i> | ● |
| <i>02. Adjustable mechanical delivery brush and paper pressing mechanism to help teeth unload and stack paper.</i> | ● |
| <i>03. Collecting and arranging paper device.</i> | ● |
| <i>04. Photoelectric detection of upper and lower limit switches to prevent the paper stacking table from being too high and paper rolling.</i> | ● |
| <i>05. Rolling curtain type auxiliary paper-receiving rack can realize non-stop paper-receiving.</i> | ● |
| <i>06. The delivery department can control the entire machine through a 7-inch touch screen.</i> | ● |
| <i>07. Two-way auxiliary blower for receiving paper, manual sampling mechanism, easy to operate.</i> | |

Electrical Department

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| <i>01. The die-cutting department adopts a 10.4-inch touch screen from Germany's Siemens and a 7-inch touch screen for the delivery department.</i> | ● |
| <i>02. All the machines adopt German Moeller relays, AC contactors, air switches and buttons to ensure the stability and reliability of the electrical parts.</i> | ● |
| <i>03. The whole machine adopts the photoelectric switch, optical fiber, encoder and sensor of Japan Omron to ensure the accuracy and stability of the action of each part of the electrical detection.</i> | ● |

CONFIGURATION ITEM

Bronzing Computer Control System

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| 01. Independently researched and developed AC801 hot stamping computer control system, which has accurate operation accuracy and fast speed, which can realize high-speed intelligent jump operation of large-format electrochemical aluminum foil (patented technology). | ● |
| 02. Three vertical and two horizontal aluminum foil independent feeding systems ensure stable and accurate transportation of electrochemical aluminum at high speed, reliable tension control, and small aluminum foil stretch. | ● |
| 03. The large-format double-axis foil collecting device on the inner side of the three-longitudinal bronzing and collecting foil (patented technology). | ● |
| 04. Intelligent foil collecting cabinet device on the outer side of three-longitudinal bronzing and collecting foil. | ● |
| 05. The three-longitudinal foil feeding rack adopts a push-pull device, which is convenient for the foil feeding rack to be pulled out of the machine to replace the aluminum foil, and the operation is simple and safe. | ● |
| 06. The bronzing servo adopts a direct-connected foil feeding shaft device with high precision. | ● |
| 07. Equipped with a broken foil detection system to prevent hot stamping waste caused by accidental breakage of anodized aluminum, and improve the yield of hot stamping products. | ● |
| 08. 20 Independent temperature zone control system, effectively controlling the heating temperature of the bronzing plate. Ensure that the temperature control of the entire heating system is more balanced and stable. | ● |
| 09. The holographic anti-counterfeiting foil holder device is quick to operate, safe to replace and easy to install, ensuring the accuracy and stability of holographic hot stamping (for holographic hot stamping). | ▲ |
| 10. Equipped with aluminum foil separation and blowing device in vertical and horizontal directions, suitable for large-area hot stamping. | ● |
| 11. The length of the aluminum foil is shorter than the set parameters, an alarm will be triggered, and the computer processing aluminum foil monitoring system will display the remaining and used aluminum foil lengths. | ● |
| 12. The operating table of the bronzing department adopts a 10.4-inch touch screen. | ● |

Note: This configuration sheet is for reference only, and the formal configuration sheet is subject to the contract.
Standard: ●; Optional: ▲

SCHEMATIC
DIAGRAM

