

Product	-	Duo Press Automatic Hot Stamping & Die Cutting Machine with 600 Tons Cutting Pressure
Model	-	MHK-2S-1050 TMC
Warranty	-	2 Years



Please note that the picture is for **ILLUSTRATION ONLY** and may vary from the equipment offered.

Processed Material:



Features:

- ✓ **CE Approved**
- ✓ **Centre Line System**
- ✓ **Auto Non-Stop Collecting Device**
- ✓ **Four Side Stripping System**
- ✓ **600 & 300 Tons Cutting Pressure**
- ✓ Human Machine Interface and PLC from Siemens
- ✓ **Overload Protection Torque Limit Controller**
- ✓ **Belt Driven Main Drive**
- ✓ **Sheet Slow Down Device**
- ✓ **Automatic Lubrication Device for Main Driven Chains**
- ✓ **Motorized Micro-Adjustment of the Feeding Platform**
- ✓ Max. Working Speed 7200 sheets/hour
- ✓ Wide Stock Range for Corrugated Board and Card Paper
- ✓ Photoelectrical Device for Safe Operation
- ✓ **Automatic Oil Cooling Device**
- ✓ High Speed and Precision Feeder Equipped
- ✓ ISO 9001 and CE Approved Manufacturing Process
- ✓ European, Taiwan and Japanese Standard Spare Parts

Machine Configuration:

S. No.	Features	Include	Qty.
1	Operation Platform	Y	1 No.
2	Die Chase (Installed in Machine)	Y	1 No.
3	5 + 2mm Sandwich Plate (2mm Cutting Plate Made in Germany)	Y	1 No.
4	Spare Gripper Bar	Y	1 No.
5	Gripper Bar Safety Lock	Y	1 No.
6	Set of Tools	Y	1 No.
7	Optional Extra Die Chase	N	1 No.
8	Optional Extra 5mm Hardened Die Cutting Plate from Germany	N	1 No.
9	Optional Extra 2mm Hardened Die Cutting Plate from Germany	N	1 No.
10	Optional Extra 2mm Hardened Die Cutting Plate from China	N	1 No.
11	Optional Extra Gripper Bar Assembly with Connectors	N	1 No.
12	Optional Stripping Waste Basket	N	1 No.
13	Optional Speed Display	N	1 No.
14	Optional Tape Inserter (Including 8 Tapes)	N	1 No.
15	Optional PLC Remote Controller (For Software Upgrade and Maintenance)	N	1 No.
16	Optional Die Chase Loader (Without Die Chase) - For Pre-Make Ready of Next Job	N	1 No.

Technical Specifications:

Max. Sheet Size	1050 X 750 mm
Min. Sheet Size	400 X 360 mm
Max. Cutting Size	1040 X 720 mm
Inner Chase Size	1080 X 745 mm
Stock Range	80~600g/m (Card Paper)
	≥ 4mm (Corrugated Board)
Die Cutting Accuracy	± 0.1 mm
Max. Cutting Pressure	600 Tons (Press 1) & 300 Tons (Press 2)
Max. Machine Speed	7200 sheets/hour
Feeder Pile Height	1600 mm (Including Wooden Pallet)
Delivery Pile Height	1400 mm (Including Wooden Pallet)
Max. Foil Diameter	250mm (Longitudinal) & 200mm (Lateral)
Foil Width	20-1020 mm
Press 1 Foil Shaft	3 Longitudinal + 2 Transversal
Electric Heated System	20 Temperature Zones, 40-180 degree adjustable
Servo Motor Power	15 kw/15 kw
Total Power Required	72 kw
Machine Dimensions Including Work Platform (LXWXH)	8500 X 5500 X 2450mm
Net Weight	27 Tons
Air Pump Displacement	0.6~0.7Mpa, ≥0.37m ³ /min

Feeder:

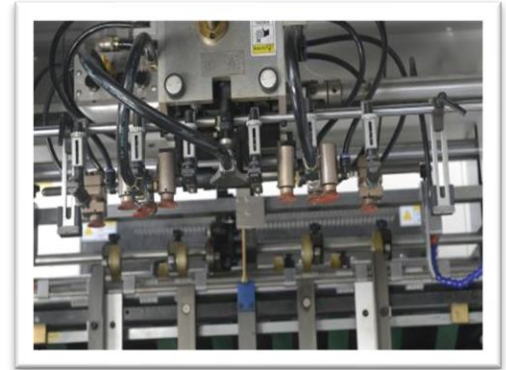
1) Three lifts up and four forwarding sucker heads with angle adjustment to handle different kinds of materials.

2) Preloading device with rail cart and scaled gate.

3) Motorized side adjustment of pallet table.

4) Non-stop feeder with automatic pile lift.

5) Side blowers adjustable according to sheet size for smooth feeding, especially for thin paper transport.



Feeding Table:

1) Left and right-side push lays to ensure accurate alignment and power registration.

2) Synchronizing device to adjust the sheet positioning to the front lay by hand during production.

3) Feed table inlet equipped with lateral ramps.

4) Four individually adjustable front lays at the operation side of the machine.

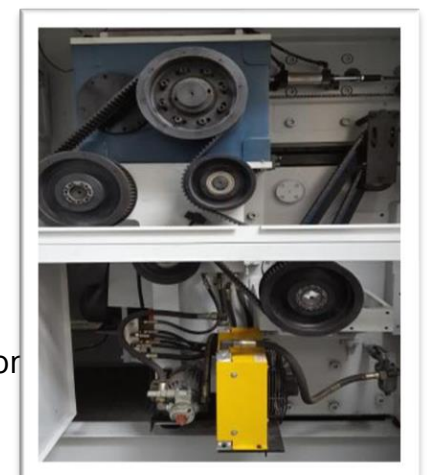
5) Electro-mechanical double sheet detector.

6) Sheet hold-down device (guiding the sheets to the front lays) Pull and push convertible side lays (OS and OOS) with photo sensor sheet arrival control



PRESS 1 (Hot Stamping):

- 1) Man-machine interactive touch function, can set different long pull and short pull.
- 2) The alarm will be triggered when the foil is shorter than 6cm.
- 3) The computer deals with foil monitoring system, used to display remaining and have used foil length.
- 4) Comprehensive foil feeding system, can realized longitudinal and lateral hot foil stamping at the same time, reducing the foil usage and saving foil replaced time.
- 5) Three sets of longitudinal foil advancing shafts and two sets of lateral foil advancing shafts are driven by servo motors individually programmable for short and long foil stepping.
- 6) Foil feeding devices are controlled by Schneider servo motor and Schneider PLC control system.
- 7) Foil breaking control.
- 8) Tension roller and foil advancing rollers each driven servo motors and controlled by the Foil Control System; new pressing roller on tension roller with easy pressure adjustment hence quick set up.
- 9) Foil control, such as foil advancing step combination setting, automatic most efficient stepping combination calculation as well as motion stepping combination simulation and, hologram stamping is of the latest technology the Foil Control System and provides reliable and precision foil advancing control.

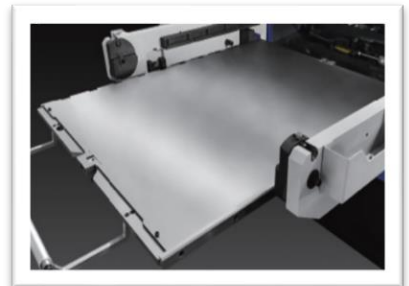
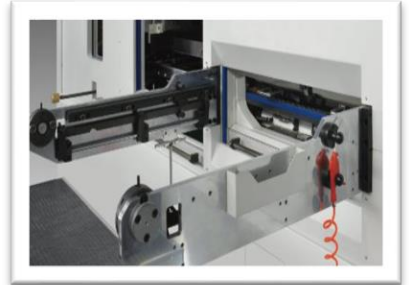




10) Waste foil rewinding unit outside the delivery controlled by the Foil Control System for efficient waste foil rejection and keeping foil tension constant by synchronizing the waste foil pulling with foil advancing.

PRESS 2 (DIE-CUTTING):

- 1) Pressure-containing member adopts high-strength nodular cast iron-QT600 and special casting process, thus it has high strength and never deforms.
- 2) The Ni-Cr-Mo metal steel crank shaft Through the special craft processing, imported from Germany.
- 3) Super wear-resistant worm and gear imported from Taiwan.
- 4) Knife template turnover device that is convenient and fast
Strong Auto forced lubrication system.
- 5) Pneumatic locking device, safe and fast.
- 6) Double cam driven gripper opener and front lay swing frame without position restore spring for smooth and accurate sheet register and take off.
- 7) High-speed rotary joint from Italy.
- 8) Adopt advanced Servo motor, to increase the die cutting speed to 7200 sheets/hour.
- 9) Die cutting plate frame, adopting central positioning system.
- 10) 10.4-inch colour screen, displaying the working state of machine all the time.
- 11) Micro adjustment for quick set up.



ADVANTAGES OF DOUBLE STATION:

- 1) Double Station with 600 Tons & 300 Tons Cutting Pressure.
- 2) **Foiling + Die Cutting** can be done in single pass.
- 3) **Micro-Embossing + Die Cutting** can be done in single pass.
- 4) **Foiling + Micro-Embossing & Die Cutting** can be done in two passes.
- 4) Productivity will be higher compare to single station machine or two pass processes.
- 5) Registration Accuracy will be perfect compared to Single Station Machine.

ADDITIONAL BENEFITS:

- Advanced Technology
- Make Ready time will be lesser.
- Can save time by avoiding 2nd process.
- No need to stop the machine for cool down the heating platen to do die cutting in 2nd pass in case of **Foiling + Die Cutting & Micro-Embossing + Die Cutting**.
- Wastage will be lesser compare to two passes process.
- Less Consumables Cost
- Less Manpower Required
- Less Running Expense Cost
- Electricity Consumption will be lesser compare to two passes process.
- Many possibilities to save many processes cost and generate more revenue compared to present process.

PROGRAMED PRECISION ADJUSTMENT SYSTEM:

- 1) Available Only in MHK series.
- 2) It adopts two individual servos to control the gripper stopper in order to adjust the precision of each gripper bar by input value in HMI, which is more operator friendly and easier to maintain the precision.



Stripping Section:

- 1) Foil feeding section can be replaced by stripping section for stripping use.
- 2) Triple action movement of the upper and lower stripping frames with lower spring-loaded stripping pins.
- 3) Motorized upper frame suspending hoister.
- 4) Upper and lower stripping tool mounting frame can be pulled out for job set up and make ready.
- 5) Adopt central positioning device that matches with the die cutting part to reduce plate replacing time.



Delivery Section:

1) Automatic paper aligning device and two blowers for paper collection can ensure neat collection of thin and thick papers.

2) Paper collection part with touch screen control, it is convenience for operation and has data display, and all operations can be performed through the touch screen.

3) Automatic delivery with non – stop curtain. This curtain moves into the delivery to catch the arriving sheets during the pile exchange.

4) Air blower to press down the sheets.

5)Rear and side jiggers with easy position adjustment.

6)Gripper edge stripping and removing system with conveyor belt to remove the gripper edge waste sideways to the drive side.

7) Safety device to prevent the steel pile plate from clamping on the foot when it reaches at ground level.



Electrical Control Section:

1) Adopts electrical components of world-famous brands for better performance and in time and local after-sale-service and maintenance.

2) Siemens latest PLC technology to ensure safe and trouble-free running



Main Machine Parts:

NO.	MAIN PARTS	BRAND	COUNTRY(REGION)
1	Main Motor	SIEMENS	Germany
2	Man-Machine Interface	SIEMENS	Germany
3	Chip	SIEMENS	Germany
4	Control Centre	SIEMENS	Germany
5	Program Controller	SIEMENS	Germany
6	Inverter	SIEMENS	Germany
7	Cutting Plate	5 + 2mm HIGH ALLOY PLATE	Germany
8	Vacuum Pump	BECKER	Germany
9	Intermittent Segmentation	HANDEX	Taiwan
10	Rotary Joint	OMPI	Italy
11	Electromagnetic Clutch	OMPI	Italy
12	Electromagnetic Gear Clutch	OMPI	Italy
13	Crankshaft Material	Ni-Cr-Mo METAL STEEL	Germany
14	Main Drive Chain	IWIS	Germany
15	Secondary Chain	TSUBAKIMOTO	Japan
16	Grip Bar, Gripper	KUI	Japan
17	Indicator Light	MOELLER/EATON	Germany
18	Circuit Breaker	MOELLER/EATON	Germany
19	Safety Relay	MOELLER/EATON	Germany
20	Security Module	MOELLER/EATON	Germany
21	Button	MOELLER/EATON	Germany
22	Motor Protector	MOELLER/EATON	Germany
23	Magnetic Switch	MOELLER/EATON	Germany
24	AC Contactor	MOELLER/EATON	Germany
25	Button	MOELLER/EATON	Germany
26	Relay	MOELLER/EATON	Germany
27	Photoelectric Switch	OMRON	Japan
28	Relay Seat	OMRON	Japan
29	Proximity Switch	OMRON	Japan
30	Encoder	OMRON	Japan
31	Sensor	OMRON	Japan
32	Bearing	NSK	Japan
33	Cable	TKD	Germany



ROBUS INDIA INDUSTRIES PVT LTD

GST IN.: 09AAKCR4872J1ZQ CIN No- U29300UP2020PTC135617 info@robustindia.com

34	Air Cylinder	AIRTAC	Taiwan
35	Air Volume Regulator	SMC	Japan
36	Main Solenoid Valve	SMC	Japan
37	Linear Guide	ABBA	Taiwan
38	Worm and Gear	WANCENG	Taiwan
39	Wallboard and Machine Body Structure	QT600-7 nodular cast iron	China
40	Feeder	YONGCHUAN	Taiwan
41	Main Paper Feeding Motor	CHENGBANG	Taiwan
42	Lift Motor of Paper Collecting Platform	CHENGBANG	Taiwan

Current Product Range Covers

BHT Model (Most Advance Series)

1. Automatic Die Cutting Machine with Four Side Stripping, Heating System and 600 Tons Cutting Pressure
BHT-1060/1060A/1060AR/1060CE/1060ACE/1060ACER/1060SCE/
1060ASCER

MHK Model (Efficient Series)

1. Automatic Die Cutting Machine with Four Side Stripping
MHK-820/820CE/MHK-1050/1050CE
2. Automatic Die Cutting & Hot Stamping Machine
MHK-820T/1050AT
3. Automatic Die Cutting & Hot Stamping Machine with Four Side Stripping
MHK-/820TC/1050ATC
4. Automatic Lead Edge Feeding Die Cutting Machine with Four Side Stripping
MHK-1300FC/1500FC/1650FC/1900FC
5. Automatic Bottom Feeding Die Cutting Machine with Four Side Stripping
MHK-1300EFC/1500EFC/1650EFC/1900EFC
6. Automatic-Manual Die Cutting Machine with Four Side Stripping (Top Feeding)
MHK-1300EC/1500EC/1650EC/1900EC
7. Duo Press Automatic Die Cutting Machine with Double Station
MHK-2S1050RMC/2S1050TMC/2S1050TRC/2S1050TTC
8. Trio Press Automatic Die Cutting Machine with Triple Station
MHK-3S1050TRMC/3S1050TTMC/3S1050TTRC

MHC Model (Economical Series)

1. Automatic Die Cutting Machine (Top Feeder)
MHC-820/1060
2. Automatic Die Cutting Machine with Three Side Stripping (Top Feeder)
MHC-820CE/1060CE
3. Automatic Die Cutting & Hot Stamping Machine (Top Feeder)
MHC-820T/1060AT
4. Automatic Die Cutting & Hot Stamping Machine with Three Side Stripping (Top Feeder)
MHC-820TC/1060ATC
5. Automatic Lead Edge Feeding Die Cutting Machine
MHC-1300F/1500F/1650F/1900F
6. Automatic Lead Edge Feeding Die Cutting Machine with Three Side Stripping
MHC-1300FC/1500FC/1650FC/1900FC
7. Automatic Bottom Feeder Die Cutting Machine
MHC-1300EF/1500EF/1650EF/1900EF
8. Automatic Bottom Feeder Die Cutting Machine with Three Side Stripping
MHC-1300EFC/1500EFC/1650EFC/1900EFC
9. Automatic Die Cutting Machine (Tiptronic Feeder)
MHC-1100E/1300E/1500E/1650E/1900E
10. Automatic Die Cutting Machine with Three Side Stripping (Tiptronic Feeder)
MHC-1100EC/1300EC/1500EC/1650EC/1900EC
11. Semi-Automatic Die Cutting Machine
MHC-1100B/1300B/1500B/1650B/1900B
12. Semi-Automatic Die Cutting Machine with Three Side Stripping
MHC-1100BC/1300BC/1500BC/1650BC/1900BC

13. Semi-Automatic Die Cutting Machine with Feeding Table
MHC-1100BL/1300BL/1500BL/1650BL/1900BL
14. Semi-Automatic Die Cutting Machine with Feeding Table & Three Side Stripping
MHC-1100BLC/1300BLC/1500BLC/1650BLC/1900BLC

Company Introduction:

Zhejiang Dayuan Machinery Co., Ltd. (Origin RuianRuiyang Printing Machinery Co., Ltd.) is headquartered in No.105, Haize Road, Binhai New Area, Pingyang county, Wenzhou city, covering an area of over 40000 square meters and construction area of over 80000 square meters.

Founded in 1999, Dayuan now owns modern production facilities and over 400 employees with annual production capacity of 600 sets.

At Dayuan, we are proud that every machine has been under manufacturing in strict accordance with ISO 9001 Quality Management System and CE Standards. There are over 3000 machines running in 30 countries, such as UK, Spain, Egypt, Saudi Arabia, Poland, Czech, Russia, South Africa, Brazil, Argentina and etc. Since started the partnership with world leading packaging companies of European, Asian, Middle East, North & South America companies, Dayuan will continually satisfy our customers by offering high quality machines and first-class service.

Factory:



Workshop:

