

High Speed Roll Die Cutting & Creasing & Embossing Machine



PY-950/1200 is an ideal and professional machine in die-cutting, creasing, embossing and full-stripping various PE coated paper, normal paper, corrugating paper and plastic material. It applies to paper cup, paper box, medical package, wine package, food package and other environmental protection products. It adopts micro-computer, HMI, servo positioning, alternating current frequency converter, automatic counting, photoelectric rectifying, and pneumatic lock cutting plate, electromagnetic clutch, centralized oil lubrication, overload protection and distinctive gearing. All of these is the guarantee of steady pressure, precise positioning, smooth running, safety and reliability operation.

Technical Specification		
Type	PY-950	PY-1200
Paper Convey Width:	950mm-400mm	1200mm-400mm
Max Roll paper diameter	1800mm	
Cut Precision:	± 0.10mm	
Production capacity	150-200 times/min	
Maximum cutting size:	950 x540mm	1200 x640mm
Suitable Material:	100-800g/m ² white cardboard, PE coated paper, Kraft paper.etc	
Maximum Pressure:	350T	
Power:	14.5KW	
Total Weight:	6.3T(standard)	8.4 T(standard)
Overall Dimension:	4200 x 2100 x 1850 mm	
Working Air Source:	Air pressure: 0.6Mpa;	

	Working air: 0.3m ³ /min;
other size can be customized.	

Main Feature:

- 1.The working speed is 150-200times per minute, the level of the capacity in China is 120times per minute. It has the ability to die-cutting, creasing and embossing for various shapes.
2. Paper conveyed by servo motor to ensures steady and accurate conveying. photoelectricity sensor checks the color code of printing to ensure fix the paper position accurately.
3. Electric control system uses PLC and HMI. Equipped with safety refinements to make acoustic - optical alarming and auto stop when some faults.
4. Worm wheel and worm transmission system ensures the powerful and steady pressure;It is very convenient and accurate to adjust pressure through HMI.



- 5.Lubricating with oil circulation and alarming when lack of oil to ensure smooth running and prolong the machine life.



6. The die-cutting frame uses pneumatic locking system to convenient operation. Die-cutting down steel board from Taiwan is accurate and lasts forever.
- 7.It adapts electric control pneumatic clutch to protect the machine when start and emergency stop..The flywheel provides a mounting location to the clutch and also can increase the pressure.

Advantage and improvement:

1.Machine Host. New design: Worm and Worm wheel together with crankshaft same as the sheet die-cutting machine. The previous design: off-center shaft.

The New Design



The Previous Design



2.Pressure Adjusted. New design: The pressure is automatic adjusted through the motor to control the four feet by HMI. And the pressure can be shown in the HMI. It is very convenient and accurate. The previous design: manual adjusted through gear wheel or the screw.

The New Design



The Previous Design

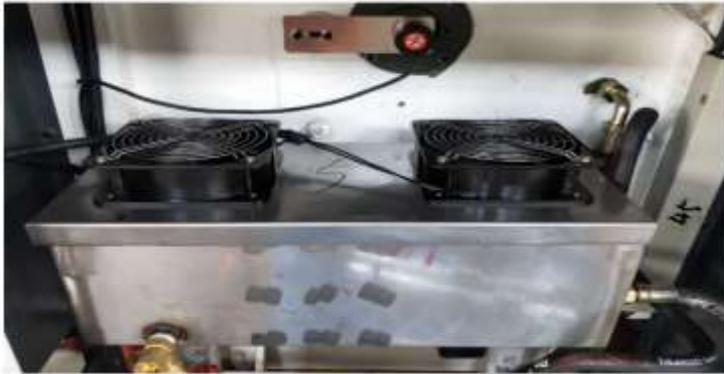


3.Positioning block in movable platform we add one more positioning block in movable platform. It makes the pressure of the platform more stable, and endurable.



4.Oil circuit. New design: The outside oil circuit adds a filter to clear the oil and a flow switch to monitor lacking oil. The previous oil circuit is crude and confused. (the first machinery equipments with alarming of oil lacked)

The New Design

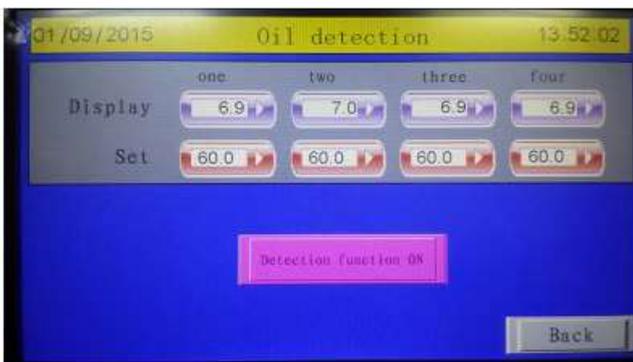


The Previous Design

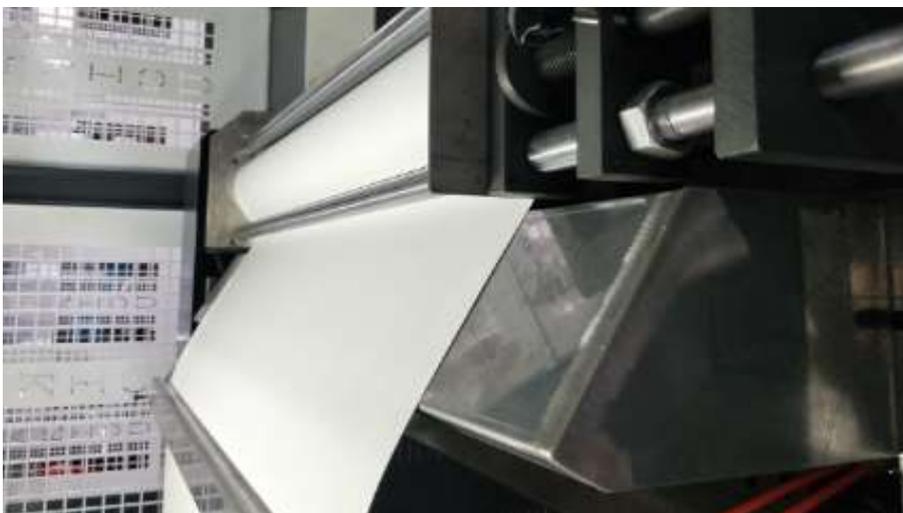


4.The main driving part in host is protected by the lubrication system. If the data shows problem, the machine will stop and alarming. Then you must check the driving parts.

The New Design



5. Air cylinder paper pressure system. In front of the paper feeding platform, we add the air cylinder paper pressure system to ensure the paper convey more smoothly and quickly. We are the first one and the only one machinery who adds this system.



6.PLC program: The new design: We make two PLC program to fit for the different quality of printing. Be more functional and accurate.

7. **Paper feeding balance regulator** add new type paper feeding balance regulator to adjust the minor unbalance situation.



8. **Paper damper**. In order to avoid the paper shaking, we add one damper to make the paper tractable. The paper leech on the damper when machine is running. So, we can feed paper more stable and faster.



9. **Roll Paper Loading**: The new design: the hydraulic cylinder pushes downward, so it is stronger than the previous design.

The New Design



The Previous Design



10.Paper blocked alarm system. The new design adds the alarm system to make the machine stop when paper feeding blocked.



Components Brand:

Motor	Main motor	GONGTAI (CHINA)
	Servo motor	INOVANCE  Inovance
	Stepper motor	SOYO®
	Pressure adjusting motor	MAILI (TAIWAN)
Electric elements	Servo driver	INOVANCE  Inovance
	HMI	WEINVIEW(TAIWAN) 
	PLC	INOVANCE  Inovance
	Frequency converter	INOVANCE  Inovance
	All other electrical parts	SCHNEIDER  施耐德电气
	relay	OMRON®
	bottom	Autonics Sensors & Controller:
	encoder	
	Photoelectric switch	
photoelectric color mark	Panasonic	
Pneumatic	Main air cylinder	AIRTAC(TAIWAN)



		AirTAC
	Solenoid valve and other parts	
	pneumatic clutch	

Maintenance manual

change or add if necessary	1 month	1 season	1 year
lubrication oil		√	
oil pump		√	
sensors		√	
motors			√
electric and cylinder			√
pressure adjustment		√	
sealing system			√
tension system			√
hydraulic			√
shaft unwinding		√	
vacuum feeding		√	
cutting steel board		√	
convey belt		√	
clear:			

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oil pipe		√	
sponge of leak proof			√
filter	√		
rubber roller		√	
other parts			√

If abnormal noise or unknown fault, please contact with manufacturer immediately.