

SPECIFICATIONS

Subject: HPM PAPER CUTTING SYSTEM



Above machine photo's colour is only for reference.

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1. QZ1450F Loader

1.1. Machine Performance

Stack loading machine is with features of high production efficiency, reducing labor intensity and cost, shorter production time, and etc..

Automatic paper loading feature: transfer the paper sheets from paper stack to the work table automatically, in safe and reliable operation. Equipped with edge touching safety guard, to ensure the safety of the surrounding when machine is in running. The height of the loading can be adjusted. Using hydraulic structure to make sure movement steady. With pneumatic device, the clamp device force is adjustable according to different material of paper.

Placed right or left side of the paper cutting machine freely- convenience for the paper loading during the cutting. Provides a necessary precondition for the printing or folding process in future, saving time and effort. Automatic pickup function provides the simplified operation.

1.2. Technical Parameter

Model	unit	1450
Max.Loading Size	mm	1300*1600
Min.Loading Size	mm	650*900
Max. Loading Height	mm	210
Min. Loading Height	mm	30
Max. Stacking Height	mm	1600
Max.Loading Weight	kg	420
Air demand	bar	6
Main Power	kw	5.2
Max.Loading Speed	sec	30
Min.Loading Speed	sec	40
Air Consumption	Pa	4
Compressed Air	Pa	5-8
Noise Index	db	60
Gross Weight	kg	2800
Packing Size(L*W*H)	mm	4100*2500*2580

1.3 Configuration Listing

No.	Name	Brand and Model	Origin
1	Sensor	Schneider (TE)-XS2 12BLPAL2C	France
2	Air switch	Schneider (TE)-OSMC32N3C10	France
3	AC contactor	Schneider (TE)-LC1D09	France
4	Button	Schneider (TE)-ZB2	France
5	Speed reducer	Nord-SK1SI4DF-IEC71-71L/4 BRE6	Germany
6	Hydraulic gear pump	Yumeng- HGP-1A-F4R-X	Taiwan
7	Laser sensor	KEYENCE-LR-ZB250AP	Japan
8	Photoelectric sensor	Leuze- PRK 25B/66.3-S12	Germany
9	PLC	Siemens-S7-200CN	Germany
10	Frequency converter	Delta-VFD015EL21A	Taiwan
11	SMPS	Schneider (TE)-ABL 2REM24045H	France
12	Micro-relay	Schneider (TE)-RXM2AB2BD	France
13	Servo motor	Panasonic	Japan
14	Power switch	Eaton PC-25/SVB	USA

1.4.Machine Photo



2. SQZK137S16 Program Control Paper Cutting Machines

2.1 Computer System

1. Full touch display screen with 16 inch, made by Japan-based Sharp;
2. German operating system is equipped to meet the operating habits of domestic users and guarantee convenient operation;
3. Mainboard adopted industrial chip imported from Italy;
4. Highly sensitive of the touch screen has real-time responses;
5. Equipped with signal amplification function and excellent anti-interference to avoid dimension errors due to drive aging;
6. Dimension in front of knife will be displayed to facilitate sizes for cutting;
7. Program storage capacity is 300 programs, each program can store 200 items cutting size.
8. computing with four operations, output programs in real time;
9. Equipment has relative positioning function relative to current position;
10. With minimal compensation, it can rapidly correct program errors due to paper distortions;
11. It can rapidly find out user-defined number of cutters;
12. Each air cushion program can be programmed;
13. The time of automatic cutting signals can be set up and canceled; single automatic cutting can be started by inputting a password;
14. High and low speeds can be manually switched over rapidly;
15. A paper-pushing program is equipped to push paper automatically so as to guarantee safety and enhance operation efficiency;
16. Automatic cutting can be made as per instructed programming;
17. Display precision is 0.01mm; Max.backgauge speed is : 20m/min
18. Multiple languages such as Chinese and English are available for order management;
19. Manual and automatic operations can be rapidly switched over to enhance efficiency to the greatest extent;
20. Voice messages are equipped to make users judge equipment conditions correctly.

2.2 Machine Performance

1. Chrome-plated for main worktable and side tables, and has the device of air cushion, which is convenient for backgauge running.
2. Adopts high stiffness linear guides and high precision gap less lead screw to ensure backgauge accuracy and effectively improve the anti-impact capability against unidirectional impact.
3. Adopts double hydraulic system which is composed of two hydraulic circuits. When press the foot pedal, the hydraulic oil goes through the primary hydraulic circuit made up of reducing valve and spillover valve, and gives the cutting paper micro pressure. The pressure is only several kilograms and can't hurt operator's hands. At the time of cutting paper, put thousands of kilograms of high pressure to ensure the cutting quality and safe operation.
4. Uses Japan NSK bearing of low maintenance, Italy oil pump and German DICHTOMATIK sealing elements. Main electronic units are from French TE and Japanese ORMON brands.
5. It adopts inside electronic knife locker, which can effectively avoid knife-sliding.
6. Adopts main motor overloading protection safety device for cutting, infrared photoelectric protection, and buttons by two hands safety devices.
7. The large components adopt HT250 cast iron and has accepted vibration stress relief, so they won't deform after been used for long time.
8. It has mechanical assistance device for knife replacement, illuminated working surface/optical cutting line indicator and a tool box with tools, operating instruction, computer manual and spare parts list. It has total 2 standard steel knives.

2.3 Configuration Listing

No.	Name	Brand, specification & model	Origin of brand
1	Background LCD	16"Color touch Interface SHARP	Japan
3	Backgauge position motor	PANASONIC servo motor	Japan
4	Pick-up	Autonics	Korea
5	Limit switch	TE	France
6	Guarding motor	TE	France
7	Air switch	TE	France
8	AC Contactor	TE	France
9	Miniature relay	TE	France
10	Switching power supply	TE	France
11	Power switch	CANSEN	China
12	Press-button	TE	France
13	Ball screw	High accurate	Korea
14	Linear guider	High accurate double linear guides	Taiwan
15	Hydraulic system	Combination Valve	Germany
16	Oil Pump	HP	Italy
17	Bearing	NSK	Japan
18	Work Table	Slotless and plated chromium work table	China

2.4 Technical Parameter

Model	Unit	137
Max. Cutting Width	mm	1370
	inch	53.9
Max. Cutting Length	mm	1450
	inch	57.1
Max. Cutting Height	mm	210
Min.Cutting Size (without false clamp plate)	mm	30
Min. Cutting Size (with false clamp plate)	mm	90
Front Table Length	cm	73
Max. Clamp Pressure	N	45000
	Kg	4500
Max. Cutting Speed	time/min	46
Main Motor	KW	4
Gross Power	Kw	5.85
Net Weight	Kg	4100
Gross Weight	Kg	4500

Packing Size L×W×H	mm	2900*1750*2120
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2.4 Machine Photo



3. XZ1050F-2 Unloader

3.1.Machine Performance

1. Automatic unloader series is with automatic identification to paper stack size and position,automatic paper feeding and unloading functions. It can unload cutting products from the working table to the setted base quickly and neatly.
2. The whole process of paper feeding and unloading is accurate and effective, reducing labor intensity, improve work efficiency, the finished paper stack is ready to next step of production process at any time;
3. The electric system adopts programmable controller from Schneider(France) and Siemens(Germany), to monitor all electrical and mechanical;
4. High performance reducer motor from German is with smooth movement and low noise;
5. Equipped with Taiwan linear guide and oil pump, import Italy hydraulic system elements.

3.2. Technical Parameter:

Model	1050
Max.Paper Formal	900*1200mm
Max.Layer height	160mm
Max. Pile Height incl.pallet	1100mm
Max.Layer Weight	200kg
Min.Pallet Height	130mm
Connected Load	3.5kw
Air demand	6bar
Air Consumption	3L/min
Net Weight	1380kg
Gross Weight	1850kg
Packing Size(L*W*H)	3540*2180*2580mm

3.3.Configuration Listing

No.	Name	Brand,specification&model	Origin of brand
1	Sensor	(TE)-XS2 12BLPAL2C	France
2	Air switch	(TE)-OSMC32N3C10	France
3	AC Contactor	(TE)-LC1D09	France
4	Button	(TE)-ZB2	France
5	Reduction Box	Nord-SK1SI4DF-IEC71-71L/4 BRE6	Germany
6	Hydraulic gear pump	Honor- HGP-1A-F4R-X	Taiwan
7	Leaser sensor	Keyence-LR-ZB250AP	Japan
8	Photosensor	Leuze- PRK 25B/66.3-S12	Germany
9	PLC	Siemens-S7-200CN	Germany
10	Inverter	Delta-VFD015EL21A	Taiwan
11	Power Switch	(TE)-ABL 2REM24045H	France
12	Miniature relay	(TE)-RXM2AB2BD	France
13	Combination Valve	ET-02	China&Germany
14	Oil Cylinder	D70/d60*L455FAL	China
15	Air Pump	-XG-1100	China
16	Air Cylinder	TT1020 /DNC32-200	Japan
17	Motor	Zonglong 90-L	China

3.4. Machine Photo

