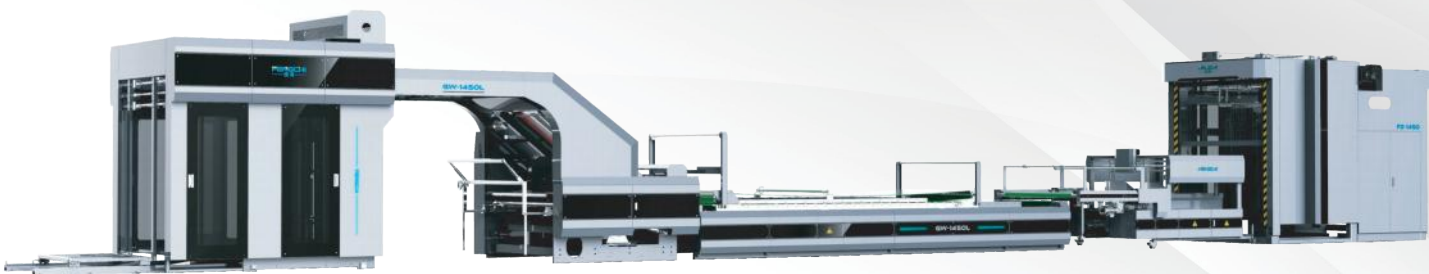


## GW Laminator Features

- Max speed **22,000** sheets/hour, stable high speed **16,000** sheets/hour for 24hours/day running
- Power consumption about **8KW/h**, saving about **20%** of power
- Digital intelligent design, automatic glue adjustment, pressure adjustment, automatic lubrication for bearing, the technical requirements for equipment operators reduced by **80%**
- Enlarged **150mm** diameter stainless steel roller, laser engraved anilox, glue apply evenly, fine glue line, no glue-splash, glue used about **18g/m2**, saving **30%** of the glue
- Full servo bus control systems, high-speed and stable laminating with the accuracy **±1.0mm**
- Reserved **35%** margin of servo motor and drive loading, prolong life cycle over 15 years, ensure the lamination accuracy unchanged

## FZ Stacker Features

- Full servo motion control system, high speed, smooth operation and trouble-free
- High-speed silent track, quiet operation, long-term life cycle
- Minimalist operating system, safe and reliable without training, easy to operate
- Max speed 16,000sheet/hour
- Safety protection with alarm and machine stop



## Company Profile

No.1 shipment supplier(**600+**/year)

**15** years experience

Plant size:**10,000 M<sup>2</sup>**

Employee:**150** persons

**ISO9001, CE**

High-Tech Enterprise

**PAPER FLUTE  
LAMINATOR MASTER**

Guangdong Fengchi Printing Machinery Co.,LTD. started business since 2008, who is the only manufacturer specialized in flute laminating machine/gluing and folding machine / folder gluer and stitcher machine/UV printer machine all the time. As master in this industry, we provide world-class laminating machines with reasonable price. We serve the paper printing & packaging industry such as color boxes and corrugated carton, help solve the manufacturing process of over-gluing laminating and stacking after the post-printing for color cardboard & corrugated cartons. Customized service is carried out according to the actual needs of users.

Be different from other multi-category equipment company, FENGCHI only focus on laminating machines and made continuous breakthrough innovations in laminating speed and self-developed patents in past years. All products are strictly granted by CE standard and factory is granted with ISO quality system.

FENGCHI is a technology-oriented factory with strong R&D team of nearly 150 people with more than 15 years in the printing and packaging industry, half of R&D team are Doctor Degree. Now we have have after-sale office in China, Europe, Vietnam, India, Malaysia, Korea, Indonesia, we aim to build global after-sale center before. Because of the professional design, stable quality, innovative technology, reasonable price and perfect after-sale service, FENGCHI became the top one turnover in China for paper laminator machine in.



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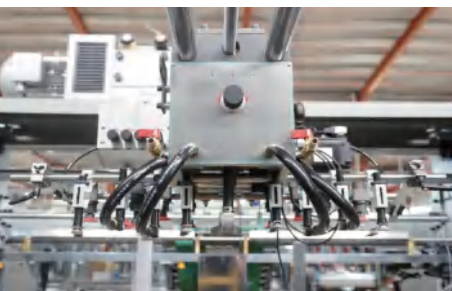
**FENGCHI 锋驰**

# Full Servo High Speed Auto Laminating Machine with Flip Flop Stacker

GUANGDONG FENGCHI PRINTING MACHINERY CO.,LTD.

## 10 Industry Initiatives

Shaft-less high speed feeder



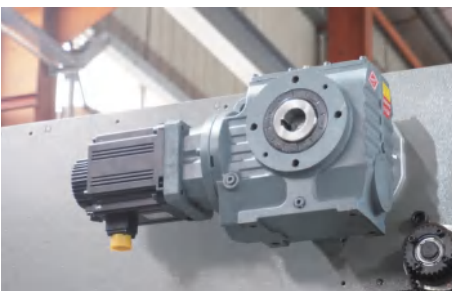
Servo controlled high-speed shaft-less feeder, front and rear auto adjustment

Original creation design of leading edge feeder



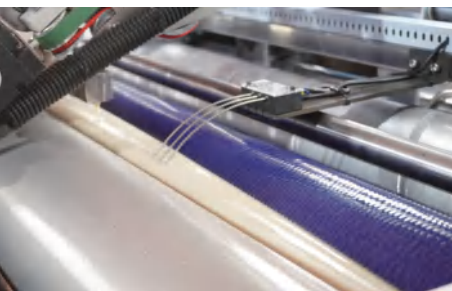
Patented leading edge suction sheet feeding structure design with high suction

Servo control lifting pile plate



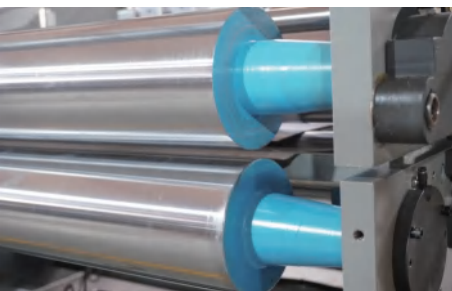
High speed feeder smooth feeding, single sheet lifting same as offset printing press, high efficient and stable

Enlarged glue roller



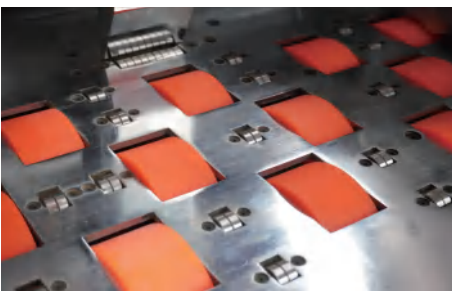
Enlarged 150mm diameter stainless steel roller, laser engraved anilox, high-speed and stable without glue splashing

Dual-bearing structure



Ensures efficient and stable operation of the machine with double life cycle

PU bottom feeding wheel



Unidirectional rotating feeding roller, without wear and tear, life cycle up to 10 years

One-button operation



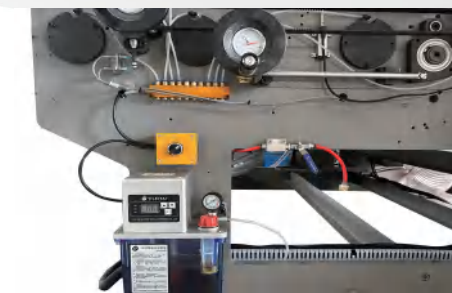
Adopting 12 servo motors bus control systems, digital intelligent input, automatic order change over in 2-3mins

Automatic pressure and glue adjustment



Intelligent control for automatic pressure and glue adjustment, reducing skill requirements of operator

Automatic lubrication of bearings



Intelligent control for automatic lubrication, no need for daily maintenance, saving labor costs, and improving production efficiency

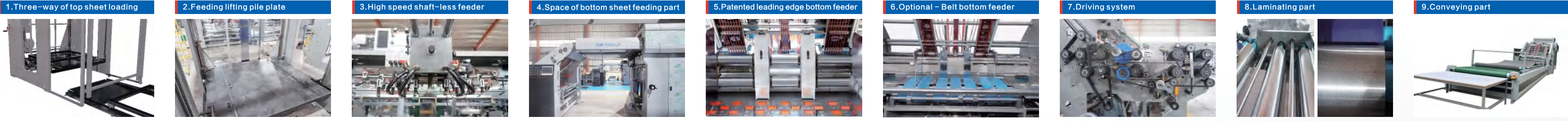
Pre-stacking system



Whole pallet loading platform, saving labor costs and time



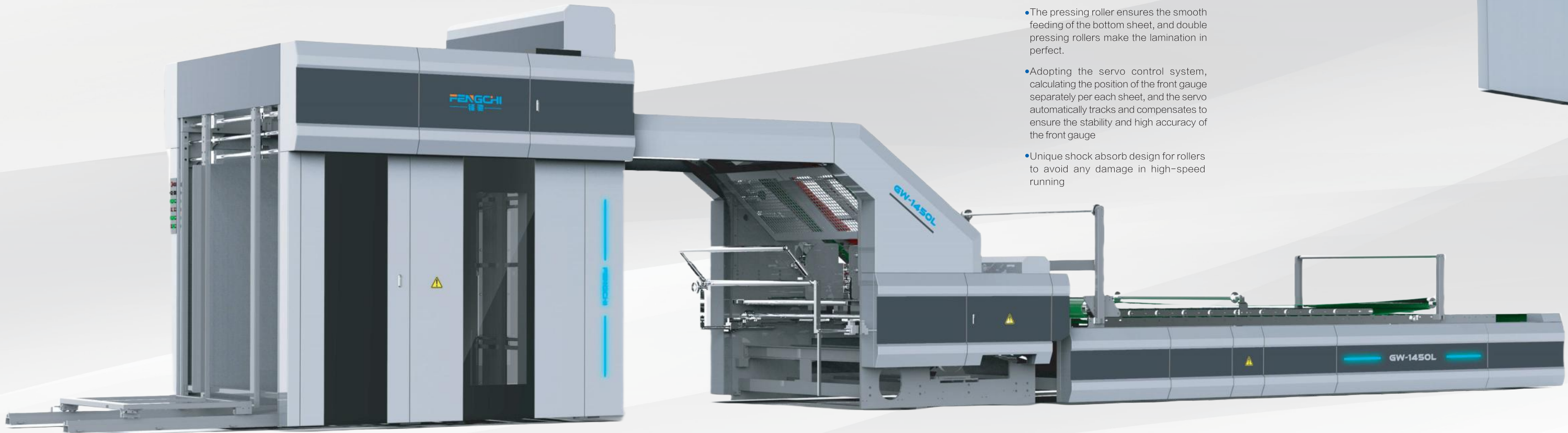
Details



- 1.Three-way of top sheet loading
  - Pre- stacking loading: for sheet uneven stacking or with static electricity, manual pre-stacking on pre-loading platform, and keep the job-change over within 3mins.
  - Whole pallet loading: adopt the whole pallet loading design to save the manpower and time. After the pallet is loaded against the gear gauge, aligning the zero position to make left and right adjustment
  - Separate manual stacking: when the platform descend, manual stack the paper on the pallet
- 2.Feeding lifting pile plate
  - The lifting platform is controlled by 4 sets of double chains to ensure the smooth and safety operation
  - 10 limits and protective sensors, real-time detection and adjustment to ensure safety production
  - Industry Initiative of servo control lifting platform, single sheet lifting same as offset printing press, without wear, and can be set as from 1-50 sheet/lifting.
- 3.High speed shaft-less feeder
  - Industry Initiative of high speed shaft-less feeder, smooth feeding, maintenance-free, max speed up to 22,000sheet/hour
  - The correction system of paper feeding ensure the high speed feeding smoothly without any skew
  - The sheet delivery stopper make sure the single sheet feeding, optional to upgrade by adding double sheet detection system
  - Becker vacuum pump with large suction, strong blowing, good stability and durable
- 4.Space of bottom sheet feeding part
  - Standard space is 3m, option shorten to 2.3m
  - large working space, available for more pallets place and convenient operation
- 5.Patented leading edge bottom feeder
  - Industry Initiative of leading edge bottom feeder, suitable for a variety of warped deformation, rough and heavy bottom board feeding
  - Unidirectional rotation feeding roller, without wear, life cycle up to 10 years
  - Standard equipped with right cylinder to pile up the paper in neat, available to adjust in a whole or on the right side, greatly saving manpower.
  - Patented non-stop suction with 5.5KW power, air flow adjustable at will
- 6.Optional – Belt bottom feeder
  - Extra heavy wear-resistant belt, suitable for cardboard/flute laminating, without scratch in conveying
- 7.Driving system
  - Using 60mm extra widening timing belts to instead of traditional wheel chain, make sure the synchronous wheel and timing belt perfect transmission, truly achieve zero wear, and ensure the lamination in high accuracy at any time.
  - Industry initiative of double bearing design, effectively extend the life span of the bearings
  - Industry initiative of auto bearing oiling injection system, maintenance free to saving manpower
- 8.Laminating part
  - Industry initiative of enlarged diameter 150mm stainless steel roller, uniform pressure, high-speed and stable without glue splashing
  - Laser engraving glue roller, special rhombic pattern, even and fine glue line, effective saving about 30% of glue
  - Unique long wheelbase roller to avoid damage caused by glue/water spilling into the bearing during laminating and cleaning
  - Automatic glue refueling device, coordinated with automatic monitor and recycling glue system to ensure glue quality and avoid the waste
  - The pressing roller ensures the smooth feeding of the bottom sheet, and double pressing rollers make the lamination in perfect.
  - Adopting the servo control system, calculating the position of the front gauge separately per each sheet, and the servo automatically tracks and compensates to ensure the stability and high accuracy of the front gauge
  - Unique shock absorb design for rollers to avoid any damage in high-speed running
- 9.Conveying part
  - Belt length can be adjusted automatically to fit with different size of products
  - Thickened sponge carpet to avoid crack at top edge of board
  - Standard with 6m length of enhanced conveying part (optional shorten to 5m)

Specification

Model	GW-1450L/B GW-1450LP/BP	GW-1700L/B GW-1700LP/BP	GW-2200L/B GW-2200LP/BP
Max.Sheet Size (W x L)	1450mm x 1450mm	1700mm x 1650mm	2200mm x 2100mm
Min.Sheet Size (W x L)	420mm x 380mm	420mm x 380mm	450mm x 480mm
Bottom Paper Sheet Thickness	GW-1450L/1700L/2200L: Approx 400gsm(0.45mm)~10mm GW-1450B/1700B/2200B: Approx 250gsm(0.30mm)~10mm		
Upper Paper Sheet Thickness	Approx 120g~700g (for 3ply paper, maximum 3ply E flute )		
Max. Working Speed	20,000 Sheets/hour (17SM/Min)		
Laminating Accuracy	±1.0mm (Standard Sheet Paper)		
Applicable Glue	Resin adhesive, starch glue and etc. (PH6-8 will be suitable for laminating glue)		
Machine Weight	8000kg	8500kg	9000kg
Dimension (LxWxH)	15700mm* 2400mm* 2550mm	16300mm*2650mm* 2550mm	18500mm* 3050mm *2880mm
Voltage	380VAC/3P		
Power	26kw	30kw	32kw
Applicable Corrugated board	A, B, C,E, F,3ply, 5ply, and other deformed, warped corrugated papers.		

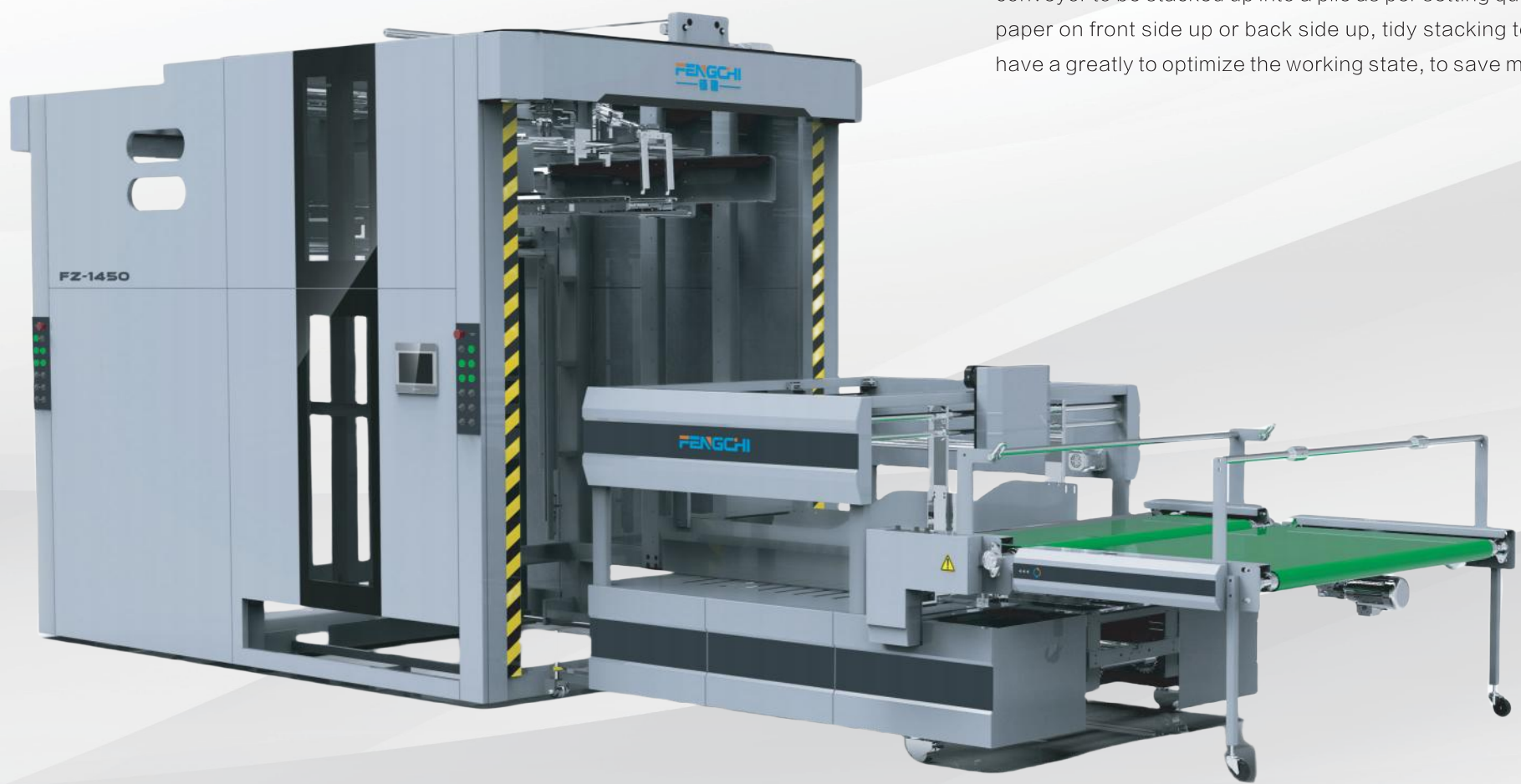


Full-servo high speed laminating machine

Guangdong Fengchi Printing Machinery Co., Ltd., as a leader in the industry of high-speed flute laminating machine, has been committed to the research and development of high-speed flute laminating machines over 15 years. With the design concept of intelligence, digitization, automation, high energy efficiency and Eco friendly, our high-speed flute laminating machine and flip flop stacker have adopting of 12 servo motors plus bus control systems. The industry imitative of high stable and efficient control system has achieved the integration of laminating, turning, and paper collection which greatly improved the post-press paper laminating capacity, and promoted the intelligent development, transformation, upgrading of the carton and printing industries.

Full-Servo Flip Flop stacker

FENGCHI vertical full servo flip flop stacker is designed to interconnect with FENGCHI full servo high speed cardboard/flute laminating machine as the automation of laminating production line. The laminated and pressed sheet is through the conveyor to be stacked up into a pile as per setting quantity. It combines the functions of flipping paper intermittently, stacking paper on front side up or back side up, tidy stacking to pallet and finally come out automatically. FENGCHI full-servo flip flop have a greatly to optimize the working state, to save manpower & labor intense, and to increase the production capacity.



Specification

Model	FZ-1450	FZ-1700
Max.Sheet Size (WxL)	1450mm x 1450mm	1700mm x 1650mm
Min.Sheet Size (WxL)	500mm x 380mm	500mm x 380mm
Max. Working Speed	16000 sheet/hour	16000 sheet/hour
Machine Weight	3800kg	4000kg
Dimension (LxWxH)	6955mm* 2432mm* 2892mm	7555mm * 2682mm * 2892mm
Power	380VAC/4P	
Power	10kw	11kw
Gas source	0.8MPa >5.5KW	

Details



- 1.Bus control system
  - The lamination machine control flip flop stacker with one button operation. Digital input the sheet size on lamination machine, and interconnect with flip flop stacker to adjust the flap and location block automatically. In addition, the flip flop is with independent touch screen to control and fine turn.
- 2.Transition conveying part
  - Multi-pharse sheet separating design, make sure the sheet conveying smoothly and tidy stacking.
- 3.Multi-speed servo control
  - Using 5 sets of servo control, precise positioning, unimpeded sheet push, multi-speed control of the whole process of paper collection, perfect separate different length of the paper. The collecting speed increase over 30%.
  - The stacking height of the paper can be adjusted at will
- 4.Collection platform
  - Servo controlled slap in front and two sides to make the paper filed neatly.
  - Non-stop collection with pre-stacking device, stacking height up to 1700mm
  - The servo controlled lifting platform is supported by 4 sets of double chains to ensure the smooth and safe operation
- 5.Non-stop auto logistics (optional)
  - Auto pallet makeup function: when the full stacked pallet come out automatically, the makeup pallet will be pushed and lifted automatically to keep the collection non-stop.
  - Auto logistic system: automatically supplying the empty pallet and full stacked pallets come outtokeepthe receiving smoothly, saving the manpower.