

# FENGCHI

## Case Center



### CASE 1

Delivery of fully automatic local UV spot coating machine.



### CASE 3

High-speed fully automatic local UV spot coating machineshipping site real shot.

### CASE 2

Fully automatic local UV coating machine C square customer site real shot.



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

## Company Profile

Guangdong Fengchi Printing Machinery Co.,LTD. started business since, 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 people with more than 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

# Fully Automatic High-Speed UV Coating Machine

## Automatic Paper Feeder

- High-reliability suction heads with linear slide rails ensure fast paper feeding, tightly delivering sheets of all sizes.
- Sensitive electro-mechanical double-sheet detector automatically stops feeding upon detecting multiple sheets.
- Maximum paper stack height: 1,150mm.
- Precision front and side guides (front guide and pull guide) with quick-adjust mechanisms for accurate positioning.

## Multi-functional Coating Oil Head

- Dual-roller differential-speed coating head ensures flat, uniform, and glossy oil film with precision.
- Optional ceramic anilox roller with chambered doctor blade configuration.

## Automatic Paper Collector

- Integrated auto-loading platform with maximum stack height of 1,200mm.
- Photoelectric pneumatic dual-side alignment system for precise stacking.
- Thin-paper guiding device guarantees smooth and orderly sheet delivery.

## Electrical Control System

- Full-machine variable frequency drive (VFD) with PLC programmable controller ensures high stability and low failure rate.

## Paper Feeding and Printing Unit

- Swing-arm sheet transfer mechanism supports maximum speed of 8,000 sheets/hour.
- Impression and coating cylinders undergo precision grinding and dynamic balancing calibration for dimensional accuracy.
- Quick-mount system for coating cylinder blankets and plate bases, enabling fast plate changes.



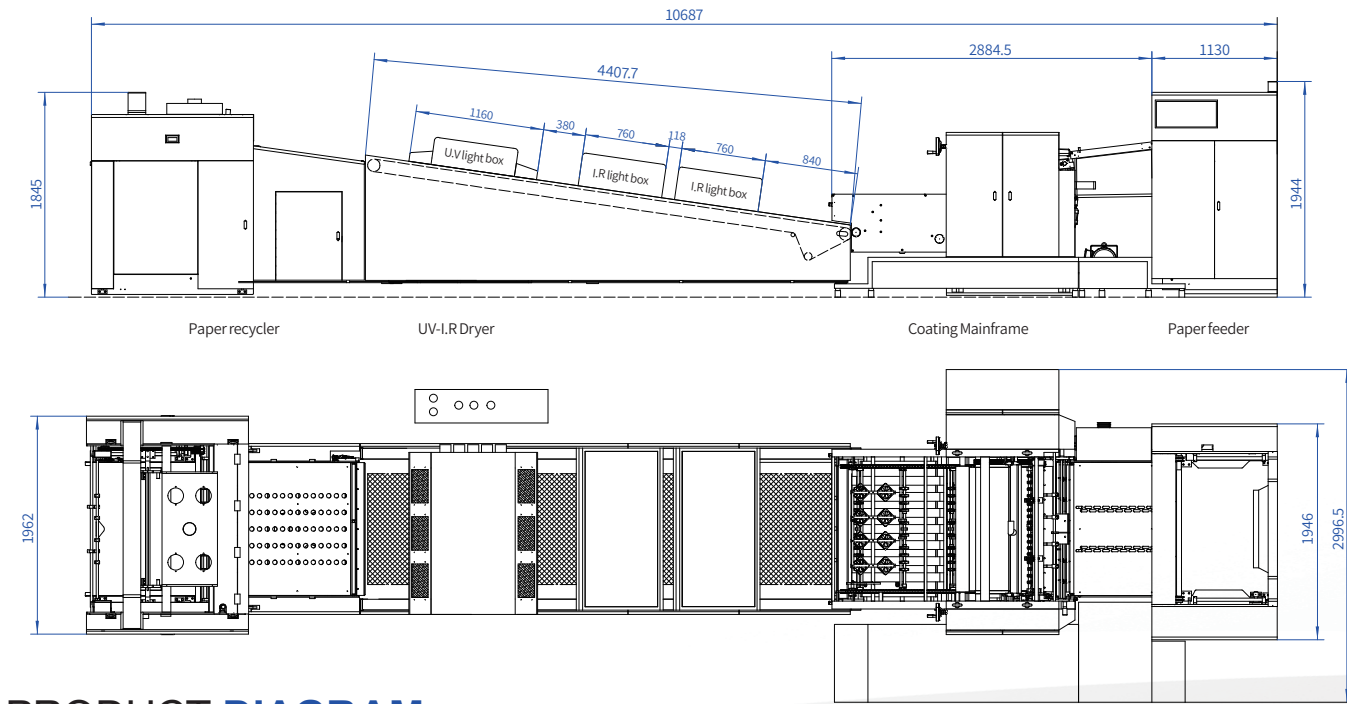
### Highlights overview

## U.V. Drying and Curing Equipment

- Three UV mercury lamp units for rapid curing of UV coatings.
- Teflon mesh conveyor with bottom suction airflow ensures quiet operation, high speed, optimal curing, and easy maintenance.
- Full/half lamp switching and UV leakage protection device for operator safety.
- Built-in auto-temperature control, electronic fault trip, and cooling / exhaust system to prevent over heating.
- Dual infrared (IR) drying groups, each with 12×1kW lamp units arranged in staggered configuration.
- Auxiliary air-blowing system ensures uniform heat distribution.

GUANGDONG FENGCHI PRINTING MACHINERY CO.,LTD.





PRODUCT DIAGRAM

TECHNICAL PARAMETER

Model	TY-106W	TY-1060W-L
Max.Sheet Size :	740×1050mm (L×W)	
Min.Sheet Size :	310×406mm (L×W)	
Max.Coating Area :	730×1040mm (L×W)	
Coating Registration Accuracy :	±0.15mm	
Coating Layer Thickness :	0.15mm ~0.60mm	
Sheet Thickness :	80 ~ 500 gsm	
Up to :	6500-8000sheet/hour (Depends on paper size, dimensions and quality)	
Power Required :	40kw (W water-based)	44kw (E oil-based)
Machine Dimension :	10625×2260×2100mm	13225×2260×2100mm
Machine Weight :	7600kg	8200kg

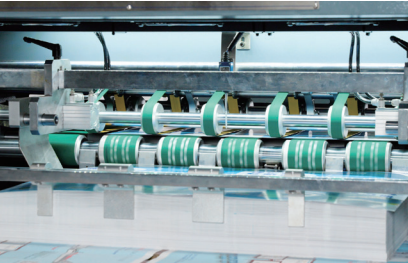
\*This is the current configuration. It may be updated with technical updates and upgrades.

UV Drying Equipment



- Features three UV mercury lamp units for rapid UV varnish curing.
- Optional EB frequency-conversion electronic curing UV source reduces energy consumption by 10%-15% while extending service life.
- Built-in auto-temperature control and electronic fault trip protection.
- Water-based IR drying module with dual-zone temperature switching.
- Gripper-assisted edge-correction mesh belt conveyor enhances curing consistency and lowers maintenance costs.

Automatic Paper Collector



- Integrated auto-loading paper table. Photoelectric-pneumatic edge aligners and high-power sheet decelerator prevent inertial displacement during heavy paper stacking.
- Standard cooling fans with optional air conditioning cooling system.
- Multi-status LED indicators and safety monitoring system provide instant operational feedback.

Automatic Paper Feeder



- Equipped with high-reliability pneumatic feeding head for rapid and smooth sheet delivery.
- Integrated with electro-mechanical double sheet detector and foreign object deflector, triggering immediate shutdown upon anomalies.
- Precision front guides and side guides ensure registration accuracy.

Coating Machine



- Coating speed up to 5,000-6,000 sheets/hour with energy-efficient operation (30% less power/oil consumption). Compatible with full-surface UV coating, partial adhesive-reserved UV coating, and water-based / oil-based coatings.
- Large-diameter dynamically balanced impression cylinder ensures uniform coating film. Dual-axis ink transfer with adjustable doctor blade enables simple and reliable ink control.
- Screw-mounted quick-release plate clamp on coating cylinder: lightweight, durable, and maintenance-friendly.
- Bidirectional ink transfer mechanism allows flexible ink layer thickness adjustment.
- Optional ceramic anilox roller with Danish chambered doctor blade system or standard blade unit for fast cleaning.

Control System



- Variable-frequency drive (VFD) motors ensure safe and stable operation. PLC programmable control simplifies operation and maintenance.
- Quick-disconnect connectors for all cables enable hassle-free installation.

TECHNICAL PARAMETER

Model	Ty-1460W	Ty-1650W
Max.Sheet Size :	1100×1450mm (L×W)	1300×1650mm (L×W)
Min.Sheet Size :	350×460mm (L×W)	400×460mm (L×W)
Max.Coating Area :	1090×1440mm (L×W)	1290×1640mm (L×W)
Coating Registration Accuracy :	±0.15mm	±0.15mm
Coating Layer Thickness :	0.15mm ~0.60mm	0.15mm ~0.60mm
Sheet Thickness :	105 ~ 600 gsm	120 ~600 gsm
Up to :	Up to 5-6000sheet/hour (Depends on paper size, dimensions and quality)	Up to 4-5000sheet/hour (Depends on paper size, dimensions and quality)
Power Required :	68kw/Water-based: oil-based total power	76kw/Water-based: oil-based total power
Machine Dimension :	11800×3400×2300 mm	12840×3400×2360 mm
Machine Weight :	10200kg	12000kg

\*This is the current configuration. It may be updated with technical updates and upgrades.

# Ty-1460w/Ty-1650W

## AUTO UV SPOT COATING MACHINE

FENGCHI' s Ty-UV Series partial UV coating machines utilize a gripper transmission structure and chain-track gripper system derived from single-color offset presses. The UV curing and infrared drying sections feature a mesh belt conveyor and a large-diameter impression cylinder, ensuring uniform gloss distribution, precise coating thickness control, and compatibility with both lightweight and heavyweight substrates for full-surface or selective UV coating. The machines integrate a proprietary Danish chambered doctor blade system, delivering consistent coating distribution, stable ink supply, and easy cleaning. Additionally, the quick-release blanket clamp enables rapid plate changes, optimizing operational efficiency.



PRODUCT DIAGRAM

