

Providing users with high quality products and excellent service, always be qualified supplier  
为用户提供优质的产品和一流的服务，永远做用户合格的供应商



LIYA  
Machinery



**Wenzhou Liya  
Machinery Co., Ltd.**

温州市立亚机械有限公司



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## Brief BRIEF INTRODUCTION 公司简介

Set up in 1978, Wenzhou Liya Machinery Co.,Ltd is a professional manufacturer specializing in high /medium-gravure printing machine, drying laminating machine, solventless laminating machine, such complete sets of soft packing equipments. Seeing product quality as life, we constantly introduce new technology and talented people. We also have built a strict quality system and cooperated with Control Science and Engineering major of domestic well-known university in order to ensure product quality, having established a perfect quality assurance system, and passed ISO9001: 2008 international quality management certification as well. Practical scientific and technological personnel and normative management mechanism makes the quality controlling institutionalized routinized.

We always implement the business philosophy "comprehensively improve the quality of staff, adopting international and domestic advanced standard, continuous innovation, pursuing perfection, providing users with high quality products and excellent service, always be qualified supplier", and strengthen pre-sale, selling and after-sale service. Adhere to the purpose "quality first, users first", we will supply first-class products, first-class management, first-class service to you to create a brilliant tomorrow.

In 2008, we have developed domestic latest technologic solvent-less laminating machine cooperating with Wuhan Huazhong University of Science and Technology, this machine uses patented five-roll coating, three-roll laminating, shaft-less driving, brushless motor (easy to set width) and tank technology (easy to measure roller replacement), and it has the merit of precise coating amount, fast uniform laminating (up to 300 m / min), meeting the needs of current and future printing factory.



温州市立亚机械有限公司创建于1978年，是一家专业生产中高凹版印刷机、干式复合机、无溶剂复合机等成套软包装生产设备的制造商。企业视产品质量为生命，不断引进新技术和各类人才，为了确保产品质量，本企业构筑了严密的质量系统工程，并与国内知名大学控制科学工程系合作，建立了完善的质量保证体系并通过了ISO9001：2008国际质量管理体系认证。务实的科技队伍和规范的管理机制，使各项质量控制形成制度化、程序化。

公司始终贯彻以“全面提高员工素质，采用国际、国内先进标准，不断创新，追求完美，为用户提供优质的产品和一流的服务，永远做用户合格的供应商”为经营理念，强化售前、售中、售后服务。坚持“质量第一，用户至上”的宗旨，我们将以一流的产品、一流的管理、一流的服务与您携手共创辉煌的明天。

公司于2008年联合武汉华中科技大学研发国内最新型技术的无溶剂复合机，该机采用专利的五辊涂布、三辊复合机构、无轴传动，无刷马达（方便设定宽度）和套筒技术（方便计量辊的更换），涂布量精确，复合均匀快速（可达300米/分）。可以满足印刷厂现在和将来的需要。



# LY-YAD-A

## Leading Computer Controlled High-speed Gravure Color Printer

### 领先型电脑控制高速凹版彩印机

## Product

### PRODUCT BRIEF INTRODUCTION 产品简介

LY-YAD-A Computer Controlled High-speed Gravure Color Printer, the complete machine adopts seven motors closed-loop tension control, non-shaft pneumatic loading, touch-screen interface, automatic pre-registration function, automatically detect new roller diameter, high-speed non-stop automatic loading and unloading material, pressing printing adhesive roller sequentially automatically press, concentration up such user-friendly operation. This machine has advanced and perfect configuration, beautiful appearance, simple operation, is a leading high-quality computer gravure color printing machine.

LY-AYD-A系列电脑控制高速凹版机，整机采用七电机闭环张力控制，无轴气动装版，触摸屏人机界面操作，自动预套准功能，新卷直径自动检测，高速不停机自动接料，压印胶辊顺序自动下压，集中提起等人性化操作，该机配置先进完善，外形美观，操作简单，是一台领先的高品质的电脑凹版印刷彩印机。



## Technical

### TECHNICAL PARAMETERS 技术参数

印刷宽度	Printing Width	800/1000/1200mm
机械最高速度	Max Mechanical Speed	180m/min(印版printing plateΦ150)
套印数度	Chromatography Precision	纵向自动套准Vertical automatic registration±0.10 横向手动套准Horizontal manual registration±0.10
放卷直径	Unwinding Diameter	Φ600mm
张力控制方式	Tension Control Way	七电机四摆辊闭环控制 Seven motors four dance roller closed-loop control
张力控制精度	Tension Control Precision	±0.1-0.2kg
接料方式	Receiving Material Way	高速不停机自动接料 High-speed non-stop automatic receive material
印版直径	Printing Plate Diameter	Φ120-280

## LY- YAD -B

Practical Computer Controlled  
High-speed Gravure Color Printer

实用型电脑控制高速凹版彩印机



## Product

### PRODUCT BRIEF INTRODUCTION 产品简介

LY- YAD -B Computer Controlled High-speed Gravure Color Printer, the complete machine adopts seven motors closed-loop tension control, non-shaft pneumatic loading, touch-screen interface, automatic pre-registration function, automatically detect new roller diameter, high-speed non-stop automatic loading and unloading material, pressing printing adhesive roller sequentially automatically press, concentration up such user-friendly operation. This machine has advanced and perfect configuration, beautiful appearance, simple operation, is a practical high-quality computer gravure color printing machine.

LY- YAD -B系列电脑控制高速凹版机，整机采用七电机闭环张力控制，无轴气动装版，触摸屏人机界面操作，自动预套准功能，新卷直径自动检测，高速不停机自动接料，压印胶辊顺序自动下压，集中提起等人性化操作，该机配置先进完善，外形美观，操作简单，是一台实用型高品质的电脑凹版彩印机。

## Technical

### TECHNICAL PARAMETERS 技术参数

印刷宽度	Printing Width	800/1000/1200mm
机械最高速度	Max Mechanical Speed	150m/min(印版printing plateΦ150)
套印数度	Chromatography Precision	纵向自动套准Vertical automatic registration±0.10 横向手动套准Horizontal manual registration±0.10
放卷直径	Unwinding Diameter	Φ600mm
张力控制方式	Tension Control Way	七电机四摆辊闭环控制 Seven motors four dance roller closed-loop control
张力控制精度	Tension Control Precision	±0.1-0.2kg
接料方式	Receiving Material Way	高速不停机自动接料 High-speed non-stop automatic receive material
印版直径	Printing Plate Diameter	Φ120-280



# LY-YAD-C

High-end closed-loop vector Computer  
Controlled High-speed Gravure Color Printer  
高端闭环矢量电脑控制高速凹版彩印机

## LIYA Machinery

### Product

**PRODUCT BRIEF INTRODUCTION 产品简介**

LY-YAD-C Computer Controlled High-speed Gravure Color Printer adopts domestic most advanced high-end closed-loop vector motor driving automation control system. The complete machine adopts seven motors closed-loop tension control, vertical and horizontal automatic registration, non-shaft pneumatic loading, ink roller to pass ink, touch-screen interface, automatic pre-registration function, automatically detect new roller diameter, high-speed non-stop automatic loading and unloading material, pressing printing adhesive roller sequentially automatically press, concentration up such user-friendly operation. This machine has advanced and perfect configuration, beautiful appearance, advanced structure, simple operation, is a leading machine in domestic.

LY-YAD-C系列电脑控制高速凹版印刷机，采用国内最先进的高端电机传动自动化控制系统，整机七电机闭环张力控制，纵横向自动套准，无轴气动装版，递墨辊上墨，触摸屏人机界面操作，自动预套准功能，新卷直径自动检测，高速不停机自动接料，压印胶辊顺序自动下压，集中操作等人性化操作，该机配置先进完善，外形美观，结构先进，配置完善，操作简单，该机是目前国内先进机型



### TECHNICAL PARAMETERS 技术参数

印刷宽度	Printing Width	850/1050/1250mm
印刷最高速度	Max Mechanical Speed	200m/min(印刷板φ150)
套印精度	Chromatography Precision	纵向自动套准 Vertical automatic registration±0.10 横向自动套准 Horizontal automatic registration±0.10
放卷直径	Unwinding Diameter	Φ600mm
张力控制方式	Tension Control Way	七电机四摆辊闭环控制 Seven motors four dance roller closed-loop control
张力控制精度	Tension Control Precision	±0.1-0.2kg
接料方式	Receiving Material Way	高速不停机自动接料 High-speed non-stop automatic receive material
印版直径	Printing Plate Diameter	φ120-280



# LY-FGD-A

## High-speed Computer Controlled High-speed Drying Laminator

### 八电机电脑控制高速干式复合机



## Product

### PRODUCT BRIEF INTRODUCTION 产品简介

LY-FGD-A series machine adopts domestic advanced closed-loop tension control system, the complete machine uses eight motors closed-loop control, three rollers laminating, no roller pneumatic loading anilox, automatic equational glue, pneumatic scraper, unwinding uses EPC correction system, high-speed non-stop automatic loading and unloading material, laminating material pre-heating and finished water cooling device, touch-screen interface, gas cap oven cover and operational platform, oven guide roller and laminating motor synchronously driving, oven exit EPC with the correction system, it is of perfect configuration, high-quality high-speed computer drying laminating machine.

LY-FGD-A系列整机采用国内先进的闭环张力控制系统，实现整机八电机闭环控制，三辊复合，无轴气动装网纹辊，自动均胶装置，气动刮刀，放卷采用EPC纠偏系统，收放料高速不停机自动接料，复合基材预热和成品水冷却装置，触摸屏人机界面操作，气顶式烘箱盖及操作平台，烘箱内导辊与复合电机同步驱动，烘箱出口EPC带纠偏系统，该机配置先进完善，高品质的高速电脑干式复合机。

## Technical

### TECHNICAL PARAMETERS 技术参数

机械最高速度	Max Mechanical Speed	200m/min
放卷直径	Unwinding Diameter	Φ600mm
张力控制方式	Tension Control Way	八电机闭环张力控制 Eight motors closed-loop tension control
走料方式	Moving Material Way	自动纠边LPC Automatic deviation corrector LPC
接料方式	Receiving Material Way	高速不停机自动接料 High-speed non-stop automatic receive material
干燥方式	Drying Way	四段封闭式烘箱 Four parts closed oven
烘箱长度	Oven Length	10500mm
复合宽度	Laminating Width	850/1050/1250mm

## LY-FGD-D

### High-speed Computer Controlled High-speed Drying Laminator

#### 四电机电脑控制高速干式复合机

## Product

### PRODUCT BRIEF INTRODUCTION 产品简介

LY-FGD-D series machine adopts domestic advanced closed-loop tension control system, the complete machine uses four motors closed-loop control, three rollers laminating, no roller pneumatic loading anilox, automatic equational glue, pneumatic scraper, unwinding uses LPC correction system, winding automatic unloading material, finished water cooling device, touch-screen interface, gas cap oven cover and operational platform, oven guide roller and laminating motor synchronously driving, oven exit with the correction system, it is of perfect configuration, high-quality high-speed computer drying laminating machine.

LY-FGD-D列整机采用国内先进的闭环张力控制系统，实现整机四电机闭环控制，三辊复合，无轴气动装网纹辊，自动均胶装置，气动刮刀，放卷采用LPC纠偏系统，收卷自动接料，成品水冷却装置，触摸屏人机界面操作，气顶式烘箱盖及操作平台，烘箱内导辊与复合电机同步驱动，烘箱出口带纠偏装置，该机配置先进完善，高品质的高速电脑干式复合机。



## Technical

### TECHNICAL PARAMETERS 技术参数

机械最高速度	Max Mechanical Speed	160m/min
放卷直径	Unwinding Diameter	Φ600mm
张力控制方式	Tension Control Way	四电机闭环张力控制 Four motors closed-loop tension control
走料方式	Moving Material Way	自动纠边LPC Automatic deviation corrector LPC
接料方式	Receiving Material Way	收卷自动接料 Winding automatic receive material
干燥方式	Drying Way	四段封闭式烘箱 Four parts closed oven
烘箱长度	Oven Length	9750mm
复合宽度	Laminating Width	800/1000/1200mm



# LY-FWD-A

Computer Solventless laminator

电脑无溶剂复合机



## Product

### PRODUCT BRIEF INTRODUCTION 产品简介

LY-FWD-A computer solventless laminator is a new environmental protection high-tech machine for laminating film and paper material using solventless adhesive new technology. FWD-A-type solventless laminator well designed by our company is according to international environmental protection energy-saving new technology and years of experience in the production of soft packaging equipments. The whole machine's structure is reasonable, high precision processing, fully functional control system, high degree automation, industrial PLC control, touch-screen interface, electrical control components adopt high quality brand at home and abroad to ensure the stability of the quality of the machine.

LY - FWD - A型电脑无溶剂复合机采用无溶剂胶粘剂新技术对薄膜及轻纸张材料进行复合加工的环保型高科技产品，我公司设计的FWD-A型无溶剂复合机是根据国际环保节能新技术及我公司多年生产软包装设备的经验而精心设计的设备，整机结构设计合理，加工精度高，同时整机控制系统功能齐全，自动化程度高，工业PLC控制，人机界面操作，电控元件均采用国内外优质品牌，保证了设备质量的稳定性。

## Main

### MAIN CHARACTERISTICS 主要特点

Suitable material: BOPP/PET/LDPE/OPA/AL/PP/PAPER

1. The whole machine uses programmable PLC control, touch-screen interface, production process automation controlling, reached the international advanced level among similar equipments.
2. PLC is responsible for the data inputting of whole tension, speed, production processes and other preprocessing, and responsible for the whole software feedback control.
3. The whole machine is composed of eight parts, first unwinding, adhesive-supplying system, solventless adhesive coating, second unwinding, laminating, cooling, winding and main controlling system.
4. The solventless coating device uses high-precision five-roll reverse and forward differential speed structure, drove by variable frequency motor, precise controlling of speed and coating amount.
5. The solventless adhesive two-component supplier device is provided by Liya Company and domestic research institutions together, stable quality, cost-effective.
6. The structure of unwinding and winding device is uniaxial single-station, no shaft gas cap device or air shaft safety chuck device, configured loading material is unloaded by hydraulic trolley, and unwinding equipped with EPC automatic deviation corrector system.
7. The drive of unwinding and winding and automatic tension control system is composed of AC motor, encoder, low-friction cylinder, precision pressure regulator valve, vector frequency inverter and tension control program modules, synchronized with the speed, tension taper changing automatically controlling.
8. The laminating device is composed of four parts, steel roller, adhesive roller, laminating roller and cooling roller. Drove by AC motor, variable frequency closed-loop control.
9. The passive roller uses hard aluminum alloy pipe (hard anodized surface treatment).
10. The whole machine is of excellent manufacturing and optimizational industrial design.

适用基材：BOPP/PET/LDPE/OPA/AL/PP/PAPER

- 1、整机控制系统采用可编程PLC控制，人机界面操作，实现生产过程控制的自动化控制，达到国际同类设备先进水平。
- 2、PLC负责整机张力，速度、生产工艺等数据的输入及预处理，并负责整机软件的反馈控制
- 3、整机由第一放卷、供胶系统、无溶剂涂布、第二放卷、复合、冷却、收卷和主控系统八大部件组成。
- 4、无溶剂涂布装置采用高精度的五辊逆向顺向差速结构，并由变频电机驱动，精确控制速度及涂布量。
- 5、无溶剂双组份供胶装置由立亚公司与国内科研机构共同开发，质量稳定，性价比高。
- 6、放卷及收卷装置的结构为单轴单工位，无轴气顶装置，或气胀轴安全夹头装置，配置装料由液压小车方便装卸膜料，并在放卷配EPC自动纠边系统。
- 7、放卷及收卷机构的驱动及自动张力控制系统由AC电机、编码器、低摩擦气缸、精密调压阀及交流矢量变频变频器。张力控制程序模块组成，具备速度同步，张力锥度变化自动控制功能。
- 8、复合装置由下钢辊、胶辊、复合辊、冷却辊四辊组成，AC电机驱动，变频闭环控制。
- 9、被动辊全部使用硬质铝合金管材，(表面阳极硬性处理)
- 10、整机精品意识制造及优化的工业设计

## Technical

### TECHNICAL PARAMETERS 技术参数

型号	Model	LY-FWD-A850/1050/1250
收放卷最大直径	Max Unwinding/winding Diameter	Φ800mm
最高机械速度	Max Mechanical Speed	300m/min
涂布量	Coating Amount	1 - 3.5g/m
机器传动方式	Machine Driving Way	变频和伺服传动 Frequency conversion and servo drive



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