



金玛印刷机械  
KINGMA PRINTING MACHINERY

专业研发/生产/销售

PROFESSIONAL DEVELOPMENT/PRODUCTION/SALES

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# 全自动丝印机 及自动化干燥设备

SPECIALIZES IN MANUFACTURING ALL KINDS OF SILK SCREEN  
PRINTING EQUIPMENTS AND AUTOMATIC DRYING EQUIPMENT



金玛2023版

## 发展历程

# DEVELOPMENT HISTORY

- 2022年** ○ 推出专利机型自动索纸塞孔机  
推出国内首家全自动CCD对位彩晶玻璃丝印机  
推出大尺寸光伏玻璃丝印机+烘烤生产线
- 2021年** ○ 推出全自动双面丝印机，获得中山市首台套技术装备认证.推出大尺寸悬挂式隧道炉连线方案；
- 2019年** ○ 推出小间距翻页式后烤炉，机台长度大大缩短，减少车间用地，并大幅度减少能源消耗。
- 2018年** ○ 推出0.5mm薄板三机连线+悬挂式预烤炉；同时推出高产速全自动双面丝印机，并进入台湾市场。
- 2017年** ○ 成立子公司中山市川松智能设备有限公司，推出PCB自动化干燥设备；  
首次评定国家高新技术企业；  
推出侧卡式预烤炉和翻页式后烤炉
- 2016年** ○ 推出FPC双跑台丝印机，改良后的三机连线进军韩国市场，当选第一届珠海市线路板行业协会理事单位；
- 2015年** ○ 推出双面板全自动文字+UV机丝印生产线，当选中国电子电路行业协会理事单位；
- 2014年** ○ 推出全自动三机连线丝印机（塞孔+阻焊A面+阻焊B面）  
当选中国丝网印刷行业协会常务理事单位；
- 2013年** ○ 推出单面板全自动印刷生产线，全自动丝印机累计交货300套以上；
- 2011年** ○ 推出第二代PCB全自动影像对位四柱式丝印机；
- 2009年** ○ 推出玻璃全自动丝印机，推出FPC全自动丝印机，销售规模实现重大突破
- 2007年** ○ 公司组建成立，推出全自动PCB线路丝印机；

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## 公司简介

# CORPORATE PROFILE

广东金玛印刷机械有限公司，2007年成立于广东省中山市，是一家集专业研发、生产和销售自动化丝印机、自动化干燥设备的高科技企业。自成立以来，秉持“用户所需，我们所想”的企业理念，打造出业内知名的“金玛”品牌。目前金玛正在实施三大提升战略：数字化、自动化、国际化。

公司累计获得国家发明及实用新型专利89项。2017年首次认定为国家高新技术企业，同年被评为中国电子电路行业协会（CPCA）副理事长单位，2021年，荣获中山市首台套技术装备认证。在产业技术、产品质量及客户服务等方面居国内先进水平。

公司旗下产品覆盖3C数码、3C配件、家电、汽车、能源、医疗、家电、通信等行业，为多家台资、港资及国内、外知名电路板企业成功开发多款在线使用的自动化丝网印刷机和干燥设备，设备生产线的高精度、优质性能及高效服务赢得用户的一致好评。

金玛专注于高端电子行业智能化丝网印刷设备和自动化干燥设备的研发和制造。丝网印刷设备主要分为：PCB/FPC全自动系列丝印机、家电/家具玻璃全自动丝印机、光伏玻璃丝印机及自动化辅助设备。自动化干燥设备主要分为：悬挂式热风输送带、侧卡式热风输送带、红外线热风水平输送带、翻页式热风输送带等。

公司采用ISO标准化、规范化的质量管理体系，对产品的缺陷零容忍，力争客户满意率100%。科技创新满足客户的个性化需要，金玛坚持以质量铸就实力，以行业先锋精神和敏锐视角，不断开拓进取，致力于推动网印工业高速发展。

Established in Zhongshan, Guangdong, in 2007, Guangdong Kingma Printing Machinery Co., Ltd. is one of the high-tech enterprises specialized in R&D, production and sale of automatic silkscreen printing machines, automatic drying equipment. Since its foundation, adhering to the philosophy of "customers' requirements, what we are thinking." We have built a renowned brand "Kingma". Now, We are implementing three improvement strategies: digitization, automation and internationalization.

We have obtained 89 national invention and utility model patents. In 2017, we first recognized as a national high-tech enterprise. In 2021, we won the first set of technical equipment certification in Zhongshan. We keep at domestic advanced level in technology, quality and service.

We constantly focus on the R&D and manufacture of intelligent silkscreen printing machines and automatic drying equipment for high-end electronics industry. Kingma has successfully developed a variety of models of online-used automatic silkscreen printers and drying equipment for many well-known enterprises all over the world including Hong Kong, Taiwan and Mainland China. Particularly, the high precision and superior performance have been widely recognized and highly praised by our customers.

Screen printers mainly includes: PCB/FPC automatic series screen printing machine, home appliances/furniture glass automatic screen printing machine, photovoltaic glass screen printing machine and automatic auxiliary equipment, etc. Automatic drying equipment is mainly includes: Suspended Type Hot Air Conveying Furnace, Side-clamp Hot Air Conveying Furnace, infrared hot air horizontal conveying furnace, page turning hot air conveying furnace, etc.

With ISO9001-2015 standardized and standardized system, and promoting scientific and technological innovation to meet customers' personalized needs, we insists on casting strength of quality. With the pioneers' spirit and keen perspective, keeping forged ahead, we are committing to promote the rapid development of screen printing industry.

### 客户

我们每一天都尽最大的努力让我们的客户超越他们的竞争对手。

### CUSTOMER

Try our best to let our customers ahead of their competitors everyday.

### 技术

通过我们的专家了解客户的需求，配以现代化设计手段和严苛的工匠精神设计出高效、稳定的设备，从而提供客户满意的创新解决方案。

### TECHNOLOGY

Let our experts to understand customers' needs first. By modern design methods and strict craftsman spirit to design efficient, stable equipment, so as to provide customer satisfactory innovative solutions.

### 业绩

对需求的理解加上我们的技术创新，为我们的客户和投资者创造了极大的效益，使我们的客户及客户的客户都满意。

### PERFORMANCE

This understanding of requirements combined with our technological innovation has created great benefits for our customers and investors, satisfying both our customers and our customers' customers.



### 用户所需 我们所想

作为用户可靠的合作伙伴，我们追求不断创新，视用户至上和尽善尽美为最高目标。

### YOUR REQUIREMENTS

### ALWAYS WE ARE THINKING

As a reliable partner of users, we pursue continuous innovation and regard the user first and perfection as the highest goal.



## 部分合作伙伴

# COOPERATIVE PARTNER

 鵬鼎控股 AVARY WELDING	 SCC 深南电路	 崇达 SUNTAK	 ELLINGTON 依顿
 志超科技 祥豐電子	 昆山沪利微	 PSA 瀚宇博德 HANSTAR BOARD	 定颖电子
 CHIN POON 彭鴻	 tmt 統盟電子	 沪士电子 WUS Printed Circuit	 SL 深联电路 Sun&Lynn
 JOVE 中富电路	 科翔股份	 汕頭金聲印制 Shantou Jinsheng Printing	 ASKPCB 奥士康 广东喜珍电子科技
 志浩电子 ZHIHAO ELECTRONICS	 金禄电子	 FSQuality 固舍富仕	 白井电子
 ZBX 志博信	 中京电子 CHINA EAGLE ELECTRON	 广州广合	 韩国ERE
 韩国三和公司	 韩国JAC	 韩国SK	 韩国世一

 木林森MLS	 威尔高 WELGAO	 中信华集团 ZHONGHUA GROUP	 科惠 TECHWISE
 BYJ 宝悦嘉 BAOYUEJIA	 珠海益天	 澳弘电子 Aoh Electronics	 成德 CHENGDE
 博敏电子 DOMIN BOMI ELECTRONICS	 嘉立创	 梅州兴成	 江西旭昇电子
 强达电路 QIANG DA CIRCUIT	 MFLEX a sheng company 苏州维信	 BENLIDA 奔力达集团	 浙江振有电子
 祥益鼎盛	 LeuchTek 浙江罗奇光电股份有限公司	 澳大利亚 墨尔本大学	 梅州科捷 Meizhou Kejie
 KINWONG 景旺电子	 协和电子	 金鹏电子	 GLOZYSKY 特创科技
 CEREN 土耳其	 Green Circuit	 星之光 XING ZHUO GUANG CIRCUIT	 金顺科技

客户名称随机，不分排名

## 全自动两机连线丝印机（薄板）

Fully Automatic 2-in-1 Screen Printer (sheet)

KM-ZL6373/CCD

### 用途 Usage

#### 薄板印刷

Sheet board printing

#### 高精度挡点阻焊印刷

High precision block solder resist printing



### 产品特点

- 国家发明专利，直径0.2mmD+4mil 挡点网，薄板特殊制程可达0.5—0.8mm；
- 采用德国、日本等国品牌配件，品质保证，无滚轮传送，降低不良率；
- 高效率，印刷速度提升15%以上
- 高精度，伺服精密，精准可控
- 安全专利装置，双层防护，加配重保护。

### Features:

- National invention patent, diameter 0.2mmD+4mil stop point net, thin plate special process up to 0.5-0.8mm;
- By using Germany, Japan and other countries brand accessories, quality assurance, no roller transmission, reduce the defective rate;
- High efficiency, printing speed up more than 15%
- High precision, servo precision, precise and controllable
- Safety patent device, double protection, plus counterweight protection.

规格型号Model	KM-ZL6373/CCD
最大印刷面积 Max. Printing Area(Y*X)	630*730mm
最小印刷面积 Min. Printing Area(Y*X)	450*300mm
最大网框尺寸 Max. Frame Size(Y*X)	1000*1300mm(可调Adjustable)
工作台面积 Work Table Size(Y*X)	750*1150mm
机械性产能 Mechanical Speed	阻焊Solder resist 5-6 Pcs/min
CCD对位精度CCD Alignment Accuracy	±0.005mm
印刷厚度 Printing Thickness	0.5-3.2mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa
适用电源 Power	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	6650*1650*2300mm
机器方向 Machine direction	左进右出或右进左出 Left in right out or right in left out



## 全自动三机连线丝印机（薄板）

Fully Automatic 3-in-1 Screen Printing Line (sheet)

KM-ZLSY6373/CCD

### 用途 Usage

#### 薄板印刷

Sheet board printing

#### 双面板挡点网印刷

Double panel block point net printing

#### 多层板挡点网印刷

Multi-layer board block point net printing



### 产品特点

- 国家发明专利，直径0.2mmD+4mil 挡点网，薄板特殊制程可达0.5—0.8mm；
- 采用德国、日本等国品牌配件，品质保证，无滚轮传送，降低不良率；
- 高效率，印刷速度提升15%以上
- 高精度，伺服精密，精准可控
- 安全专利装置，双层防护，加配重保护。

### Features:

- National invention patent, diameter 0.2mmD+4mil stop point net, thin plate special process up to 0.5-0.8mm;
- By using Germany, Japan and other countries brand accessories, quality assurance, no roller transmission, reduce the defective rate;
- High efficiency, printing speed up more than 15%
- High precision, servo precision, precise and controllable
- Safety patent device, double protection, plus counter-weight protection.

规格型号Model	KM-ZLSY6373/CCD
最大印刷面积 Max. Printing Area(Y*X)	630*730mm
最小印刷面积 Min. Printing Area(Y*X)	400*400mm
最大网框尺寸 Max. Frame Size(Y*X)	1300*1300mm
工作台面积 Work Table Size(Y*X)	750*1000mm
机械性产能 Mechanical Speed	阻焊Solder resist 6-8 Pcs/min
CCD对位精度CCD Alignment Accuracy	±0.005mm
印刷厚度 Printing Thickness	0.5-3mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa
适用电源 Power	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	10900*3450*2500mm
机器方向 Machine direction	左进右出或右进左出 Left in right out or right in left out

## 全自动三机连线丝印机

Fully Automatic 3-in-1 Screen Printing Line

KM-FZFS/CCD

### 用途 Usage

#### 双面板阻焊印刷

Double-side circuit board solder resist printing

#### 多层板阻焊印刷

Multi-layer circuit board solder resist printing

#### 空白网印刷

Blank screen printing

#### 挡点网印刷

Block screen printing



### 产品特点

- 便捷好用，数控数据可追溯
- 稳定耐用，主马达、主气缸、主导轨均采用日本及德国顶级品牌
- 高效率，快速换料号，提高产能
- 采用运动控制卡，可选配于Mess系统连接，便于管理加快调网时间效率。

### Features:

- Convenient and easy to use, CNC data can be traced
- Stable and durable, the main motor, the main cylinder, the main rail are made of German or Japanese top brands
- High efficiency, quick changing plates, improve production capacity
- Using motion control card, optional Mess system connection, easy to manage and speed up the network time efficiency.

规格型号Model	KM-FZFS6373/CCD	KM-FZFS63120/CCD
最大印刷面积 Max. Printing Area(Y*X)	630*730mm	630*1250mm
最小印刷面积 Min. Printing Area(Y*X)	400*400mm	450*600mm
最大网框尺寸 Max. Frame Size(Y*X)	1000*1300mm(可调Adjustable)	1000*1800(可调Adjustable)
工作台面积 Work Table Size(Y*X)	750*1150mm	750*1400mm
机械性产能 Mechanical Speed	阻焊Solder resist 5-6 Pcs/min	阻焊Solder resist 6-8 Pcs/min
CCD对位精度CCD Alignment Accuracy	±0.005mm	±0.005mm
印刷厚度 Printing Thickness	0.6-3mm	0.6-3mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm	±0.01mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa	0.5-0.7Mpa
适用电源 Power	380V 50Hz	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	13500*1650*2300mm	18500*1650*2300mm
机器方向 Machine direction	左进右出或右进左出 Left in right out or right in left out	左进右出或右进左出 Left in right out or right in left out

## 全自动双面丝印机

Fully Automatic Duplex Screen Printer

KM-ZFS5566/CCD

## 用途 Usage

## 双面板、多层板空白网印刷

Double panel, multi-layer blank screen printing

## 双面板、多层挡点网印刷

Multi-layer board stopper net printing



## 产品特点

- 操作简便，伸手可及，整机包括3台全自动印刷主机和一台翻板机，每台印刷机独立操作，换网简易快捷
- 高精度：采用四柱式专利结构（2主体立柱+两辅助立柱）+原装进口CCD对位系统，确保满足大尺寸规格产品印刷精度
- 品质可靠：采用日本最新XYθ对位平台结构，对位功能与印刷架网框互不干扰，保证对位结构经久耐用；零部件采用德国、日本进口元件，保证机器耐用
- 数控刮印，挡点工艺自动补充功能

## Features:

- It is easy to operate and easy to reach. The whole machine includes 3 automatic printing machines and a plate turning machine. Each printing machine operates independently
- High precision: Adopt four-column patent structure (2 main column + 2 auxiliary column) + original imported CCD alignment system, to ensure the printing accuracy of products with large size specifications
  - Reliable quality: the use of Japan's latest XYθ alignment platform structure, alignment function and printing frame mesh does not interfere with each other, ensure the alignment structure durable; Parts are imported from Germany and Japan to ensure the durability of the machine
  - Numerical control printing, stop point process automatic supplement function

规格型号Model	KM-ZFS5566/CCD	KM-ZFS6373/
最大印刷面积 Max. Printing Area(Y*X)	550*620mm	630*730mm
最小印刷面积 Min. Printing Area(Y*X)	450*300mm	450*300mm
最大网框尺寸 Max. Frame Size(Y*X)	900*1200mm(可调Adjustable)	1000*1300(可调Adjustable)
工作台面积 Work Table Size(Y*X)	750*1000mm	750*1150mm
机械性产能 Mechanical Speed	阻焊Solder resist 4-6 Pcs/min	阻焊Solder resist 4-6 Pcs/min
CCD对位精度CCD Alignment Accuracy	±0.005mm	±0.005mm
印刷厚度 Printing Thickness	0.8-3mm	0.8-3mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm	±0.01mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa	0.5-0.7Mpa
适用电源 Power	380V 50Hz	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	13000*1800*2200mm	13500*900*2000mm
机器方向 Machine direction	左进右出或右进左出 Left in right out or right in left out	左进右出或右进左出 Left in right out or right in left out



## 全自动CCD影像对位丝印机

Fully Automatic CCD Registering Screen Printer

KM-FZ5562/CCD

### 用途 Usage

#### 双面板文字印刷

Double-side circuit board text printing

#### 多层板文字印刷

Multi-layer circuit board text printing

#### PCB选化油印刷

PCB selective oil printing



### 产品特点

- 质量保证：整机配件采用德国、日本品牌零件，
- 性能稳定：创新工艺设计，性能优越，结合伺服电机教传统电机更稳定
- 便捷高效：通过数据化储存记忆，实现快速换网
- 定位精准：伺服电机驱动板材的传送，配合电磁铁吸附，定位精准

### Features:

- Quality assurance: the whole machine accessories using German, Japanese brand parts,
- Stable performance: innovative process design, superior performance, combined with servo motor to teach traditional motor more stable
- Convenient and efficient: through the data storage memory, to achieve rapid network change
- Accurate positioning: servo motor drives plate transmission, with electromagnet adsorption, accurate positioning

规格型号Model	KM-FZ5562/CCD	KM-FZ6373/CCD
最大印刷面积 Max. Printing Area(Y*X)	550*620mm	630*730mm
最小印刷面积 Min. Printing Area(Y*X)	350*350mm	350*350mm
最大网框尺寸 Max. Frame Size(Y*X)	1100*1000(可调Adjustable)	1200*1100mm(可调Adjustable)
工作台面积 Work Table Size(Y*X)	950*800mm	1050*900mm
机械性产能 Mechanical Speed	10-11 Pcs/min	9-10 Pcs/min
CCD对位精度CCD Alignment Accuracy	±0.005mm	±0.005mm
印刷厚度 Printing Thickness	0.6-3mm	0.6-3mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm	±0.01mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa	0.5-0.7Mpa
适用电源 Power	380V 50Hz	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	3650*1800*2200mm	4120*1800*2200mm
机器方向 Machine direction	左进右出或右进左出 Left in right out or right in left out	左进右出或右进左出 Left in right out or right in left out

# 全自动CCD影像对位丝印机

Fully Automatic CCD Registering Screen Printer

## 用途 Usage

单面板/多层板文字印刷

Single / multi-layer circuit board text printing

单面板阻焊印刷

Single side circuit board solder resist printing



KM-Z5562/CCD

## 产品特点

- 高精度：丝杆+导轨的四柱结构，精密网框补偿
- 稳定耐用：整机采购德国、意大利、日本品牌配件，顶级配置，日本品牌CCD自动对位系统
- 便捷：伺服电机驱动印刷与伺机电机离网，实现同步离网功能，有效防止粘网现象发生
- 选配数控刮刀，精密补偿网框

## Features:

- High precision: screw + guide four column structure, precision frame compensation
- Stable and durable: The whole machine purchases German, Italian, Japanese brand accessories, top configuration, Japanese brand CCD automatic alignment system
- Convenient: servo motor drives printing and opportunistic motor off the grid, to achieve synchronous off the grid function, effectively prevent the phenomenon of sticking to the net
- Equipped with CNC scraper, precise compensation mesh frame

规格型号 Model	KM-Z5562/CCD
最大印刷面积 Max. Printing Area(Y*X)	550*620mm
最小印刷面积 Min. Printing Area(Y*X)	350*350mm
最大网框尺寸 Max. Frame Size(Y*X)	900*1200(可调Adjustable)
工作台面积 Work Table Size(Y*X)	750*1000mm
机械性产能 Mechanical Speed	9-10 Pcs/min
CCD对位精度 CCD Alignment Accuracy	±0.005mm
印刷厚度 Printing Thickness	1-3mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa
适用电源 Power	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	3550*1500*2000mm
机器方向 Machine direction	左进右出或右进左出 Left in right out or right in left out

## 全自动CCD影像对位丝印机

Fully Automatic CCD Registering Screen Printer

KM-FZ6373/CCD-P

### 用途 Usage

#### 双面板塞孔印刷

Double-side circuit board plug hole printing

#### 多层板塞孔印刷

Multi-layer circuit board plug hole printing



### 产品特点

- 全自动作业，创新的网板提升结构，性能优越，精密度高，速度快
- 整机配件顶级配置，德国、意大利及日本品牌零件，
- 伺服电机离网，实现同步离网功能，有效防止粘网现象发生，影像系统多值化处理，不受图像限制，任意图形可作靶标
- 伺服电机驱动印刷，快速平稳，保证印刷精准无误，印架上升伺服驱动+滚珠丝杆和导轨导向，整机运行平稳，噪音小
- 伺服电机驱动板材双边夹持传送，配合电磁铁吸附，定位精准
- 触摸屏界面操作，网距，高度，速度等都可以数字化调节，操作方便

### Features:

- Automatic operation, innovative grid structure, superior performance, high precision, fast speed.
- The machine adopts top level configuration with brand parts from Germany/Italy/Japan.
- Servo motor off-grid realize synchronous off-grid function, effectively prevent the occurrence of sticky network phenomenon, image system multi-value processing, not restricted by the image, any graphics can be used as the target.
- Servo motor drive printing, fast and stable, ensure the printing accuracy, printing frame rise servo drive + ball screw and guide shaft guide, the whole machine running smoothly, low noise.
- Servo motor drive plate bilateral clamping transmission, with electromagnet adsorption, accurate positioning.
- Touch screen interface operation, network distance, height, speed can be adjusted digitally, easy to operate

规格型号Model	KM-FZ6373/CCD-P	KM-Z6012/CCD
最大印刷面积 Max. Printing Area(Y*X)	630*730mm	630*1250mm
最小印刷面积 Min. Printing Area(Y*X)	450*350mm	350*600mm
最大网框尺寸 Max. Frame Size(Y*X)	1200*1100mm(可调adjustable)	1000*1800mm
工作台面积 Work Table Size(Y*X)	800*1000mm	900*1400mm
机械性产能 Mechanical Speed	4-5 Pcs/min	3-4 Pcs/min
CCD对位精度CCD Alignment Accuracy	±0.005mm	±0.005mm
印刷厚度 Printing Thickness	0.6-2.0mm	0.6-2.0mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm	±0.01mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa	0.5-0.7Mpa
适用电源 Power	380V 50Hz	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	3650*1930*2300mm	5450*1600*2300mm
机器方向 Machine direction	左进右出或右进左出 Left in right out or right in left out	左进右出或右进左出 Left in right out or right in left out

## 全自动CCD影像对位丝印机

Full-automatic CCD Registering Screen Printer

KM-Z-P4040/CCD/T

## 用途 Usage

## FPC印刷

FPC flat printing

## PET胶片印刷

PET film printing

## 薄膜按键平面印刷

Film key flat printing

## 产品特点

- 高精度：印刷重复精度0.05mm以内，性能优越
  - 加工品质过硬，台面平整度 $\pm 0.025\text{mm}$ ，超小孔可定制
  - 高效，自动出料
- 配备CCD影像自动对位系统，对位精度0.005mm内，性能优越

## Features:

- High precision: print repeat accuracy within 0.05 mm, superior performance
- Processing quality control, mesa flatness  $\pm 0.025\text{ mm}$ , ultra small hole can be customized
- Efficient and automatic discharging
- equipped with CCD image automatic registration system, registration accuracy within 0.005 mm, superior performance



规格型号Model	KM-Z-P4040/CCD/T
最大印刷面积 Max. Printing Area(Y*X)	400*400mm
最大网框尺寸 Max. Frame Size(Y*X)	750*750mm
工作台面积 Work Table Size(Y*X)	500*500mm
机械性能 Mechanical Speed	500 P/H
CCD对位精度 CCD Alignment Accuracy	$\pm 0.005\text{mm}$
印刷厚度 Printing Thickness	0.04-2mm
机械重复精度 Mechanical Repetition Accuracy	$\pm 0.01\text{mm}$
使用工作气压 Operating Air Pressure	0.5-0.6mpa
适用电源 Power	380v/4kw 3p
外观尺寸 Machine Dimension (L*W*H)	2650*1200*2100mm

## 全自动CCD影像对位印刷机

Full-automatic CCD Registering Screen Printer

KM-FZ-P5050/CCD-T

## 用途 Usage

## 薄膜开关印刷

Film switches printing

## FPC/ 导光板 (LGP) 印刷

FPC/ Light guide (LGP) printing

## 液晶显示器、键盘平面印刷

LCD/Keyboard plane printing

## 仪器仪表等平面印刷

Instrument and other flat printing

## 产品特点

- 整线自动化，自动上料→除尘除静电→自动进料→自动对位→印刷→自动出料→干燥→自动收料
- 利用CCD快速对版，提高对版速度和精度
- 电动式刮墨刀，用参数设定刮墨刀压力，确保压力均匀。
- 四柱式结构，刮印压力更加均衡，适合高精度印刷要求
- 采用德国、日本品牌零件，确保机器长期稳定工作
- 触摸屏操作界面，网距、印刷速度等可以数字化设定，操作方便

## Features:

- Fully automatic operation: automatic feeding→dust removal and static removal→automatic registration→automatic printing→out to dry→automatic material automatically
- Using CCD rapidly to version, version of speed and accuracy
- Electrodynamic scraping blade, scraping blade pressure with parameter setting, to ensure uniform pressure.
- Four-post type structure, more balanced scraping printing pressure, suitable for high precision printing requirements
- With German, Japanese brand parts, ensure the long-term stable machine work
- Touch screen operation interface, network digital distance, such as printing speed can be set, easy to operate



规格型号Model	KM-FZ-P5050/CCD-T
印刷台面尺寸Printing table size	800*800mm
最大印刷板材尺寸Max. Printing Sheet Size	500*500mm
最小印刷板材尺寸Min. Printing Sheet Size	250*350mm
板材厚度Sheet Thickness	0.1-1.5mm
最大网框Max. Frame Size	950*950mm
网框厚度Frame Thickness	30-40mm
网框清洗高度Cleaning Height of Mesh Frame	350mm
印刷台面高度Printing table height	1050mm
工作气压Operating Air Pressure	0.05-0.7mpa
总功率Total Power	4 KW
离网方式Off-grid Mode	气动单离Pneumatic isolation

## 电动式精密丝印机

Electric Precision Screen Printer

### 用途 Usage

薄膜开关印刷 Flat printing of film switches

手机面板 (IMD) 印刷 Phone panel (IMD) printing

FPC/导光板 (LGP) 印刷 FPC/light guide (LGP) printing

液晶显示器/键盘印刷 LCD Light guide (LGP) printing

仪器仪表印刷 Instrument flat printing

陶瓷花纸印刷 Ceramic paper printing

### 产品特点

- 数字化界面控制满足多样化印刷要求，网板电动式升降，配合德国线性导轨令升降更顺畅、稳定、精度提高
- 印刷数字化设定，印刷启动快速、平稳，特别适用于预留边位较少的材料的特殊印刷
- 伺服电机驱动，印刷效率比传统丝印机提升12%以上
- 非标尺寸接受定制

### Features:

- Digital interface control to meet the requirements of diversified printing, screen electric lifting, with German linear guide rail to make the lifting more smooth, stable and accurate
- Printing digital setting, printing start fast and stable, especially for special printing of materials with less reserved edges
- Driven by servo motor, the printing efficiency is more than 12% higher than that of traditional screen printing machine
- Non-standard dimensions can be customized



KM-X

## 自动拉料丝印机

Automatic Feeding Screen Printer

### 用途 Usage

各类软薄基材的平面印刷

如：PET胶片、薄膜按键、柔性电路及陶瓷花纸等。

Flat printing of various soft and thin substrates materials, such as PET film, film key, flexible circuit and ceramic paper. ceramic paper.

### 产品特点

- 网板电动垂直升降，配合德国导轨令升降更顺畅更平稳，且耐用度极高
- 本机3/4自动出料改变传统送料方式，单次印刷比普通丝印机效率提升25%以上
- 选装特殊定位机构，套印更快更准确
- 自动出料转入下道烘干工序，无需人手取料，专利机型

### Features:

- The electric vertical lifting of the screen plate, combined with the German guide rail, makes the lifting more smooth and stable, and has high durability
- This machine 3/4 automatic discharge to change the traditional feeding mode, single printing efficiency than ordinary screen printing machine increased by more than 25%
- Special positioning mechanism is selected for faster and more accurate overprinting
- The automatic discharge is transferred to the next drying process, without manual withdrawal, patented model



KM-X-T

规格型号Model	KM-X4560	KM-X6080	KM-X6013	KM-X8022
最大印刷面积 Max. Printing Area	450*600mm	600*800mm	600*1300mm	800*2200mm
最大网框尺寸 Max. Frame Size	750*1000mm	900*1200mm	900*1900mm	1100*2800mm
工作台面积 Work Table Size	600*800mm	700*1000mm	700*1600mm	900*2400mm
机械性产能 Mechanical Speed	1200P/H	1100P/H	900P/H	400 P/H
印刷厚度 Printing Thickness	0.04~30mm	0.04~30mm	0.04~30mm	0.01~20mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm	±0.01mm	±0.01mm	±0.01mm
使用工作气压 Operating Air Pressure	0.5~0.7mpa	0.5~0.7mpa	0.5~0.7mpa	0.5~0.7mpa
适用电源 Power	380V/3KW	380V/3KW	380V/3KW	380V/3.5KW 3P
机器外形 Machine Dimension	1350*1120*1750MM	1560*1180*1750MM	2160*1250*1750MM	3100*1450*1750MM

规格型号Model	KM-X-T 6080	KM-X-T 6080
最大印刷面积 Max. Printing Area	600*800mm	600*1000mm
最大网框尺寸 Max. Frame Size	900*1150mm	900*1380mm
工作台面积 Work Table Size	700*1000mm	700*1200mm
机械性产能 Mechanical Speed	1000 P/H	1000 P/H
印刷厚度 Printing Thickness	0.04-2mm	0.04-2mm
机械重复精度 Mechanical Repetition Accuracy	±0.01mm	±0.01mm
使用工作气压 Operating Air Pressure	0.5~0.7mpa	0.5~0.7mpa
适用电源 Power	380V/3KW	380V/3KW
外观尺寸 Machine Dimension	2350*1180*1750mm	2950*1180*1750mm



## 双面台电动式精密丝印机

Double-sided Table Electric Precision Screen Printer

### 用途 Usage

#### 双面板防焊印刷

Double side circuit board solder resist printing

#### 多层板防焊印刷

Multi-layer circuit board solder resist printing

### 产品特点

- 高精度：定位精度在 $\pm 0.01\text{M}$  ( $\pm 0.4\text{MIL}$ ) 以内，孔 $0.3\text{MM}$ 挡点单边加大三条，结合高扭力之时规皮带与高精密之线性滑轨，印程特别稳定
- 油墨不偏流，刮印刀设有精密恒压装置，印压设定后对印刷物下墨之厚薄，塞孔饱满度均能保持不变印压状态
- 两组对照式安全防护装置加紧急开关安全性高，
- 设有刮除积墨点装置，能在印刷同时去除网板底之多余油墨

#### Features:

- High accuracy: the positioning accuracy is within  $\pm 0.01\text{M}$  ( $\pm 0.4\text{MIL}$ ), the hole  $0.3\text{MM}$  gear point is enlarged by three on one side, combined with high torque timing belt and high-precision linear slide rail, the printing process is particularly stable.
- The ink is not biased. The scraping knife is equipped with a precision constant pressure device. After the printing pressure is set, the thickness of the ink on the printed matter and the fullness of the plug hole can remain unchanged
- Two groups of control safety protection devices and emergency switches have high safety,
- It is equipped with a device for scraping the accumulated ink, which can remove the excess ink at the bottom of the screen at the same time

## KM-ST66



规格型号Model	KM-ST66
印刷速度 Printing Speed	0~620mm/sec 可调
产能 Mechanical Speed	防焊: 6 pcs/min 单点印刷; 8pcs/min 空网印刷
印刷精度 Printing Precision	0.02mm (单片重复)
网板尺寸 Frame Size	Max: 1000*1000mm挡点印刷1000*950 (空网印刷)
台面水平精度 Mesa Level Precision	$\pm 0.05\text{mm}$
台面往复精度 Mechanical Repeatability	$\pm 0.05\text{mm}$
上台面尺寸 Table Size	800*930mm (无吸风功能)
下台面尺寸 Table Size	800*800mm (无吸风功能)
电源 Power	AC 220V、380V、1.5PH、耗电1KW
空压需求 Manifold Air Pressure	6~8KG/cm <sup>2</sup> 、流量30L/min
机台重量 Machine Weight	980KG
外观尺寸 Machine Dimension	2300*1400*1650mm

## 斜臂式网印机

Diagonal Arm Screen Printer

## KM-DA6080

### 用途 Usage

#### 多层板塞孔

Multi-layer board plug holes

### 产品特点

- 一体成型铸造台板，时效处理/平面研磨/电镀雾化
- 配电方式采用逻辑程序(PLC)控制，故障少、易维修
- 有恒压印刷设定
- 精密印刷变频马达与无震上下马达
- 印刷传动采用线性轨道/时规皮带传动，精密耐用
- 上下马达煞车先采用变频器间接缓冲刹车，再用刹车皮第二次刹车，精密不损坏刹车皮
- 刮刀/回墨刀调整上下可直接调整不用工具
- 网框离版间距大小有刻度指示，使印刷参数更精密

#### Features:

- Integrated casting table, aging treatment/plane grinding/electroplating atomization
- The power distribution mode adopts logic program (PLC) control, which few faults and easy maintenance
- With constant pressure printing setting
- Precision printing frequency conversion motor and vibration-free up and down motor
- Printing drive adopts linear track/timing belt drive, precise and durable
- The upper and lower motor brakes use the frequency converter to cushion the brake indirectly, and then brake the brake for the second time, so as not to damage the brake precisely
- The scraper/ink return knife can be adjusted up and down directly without tools
- There is a scale indication for the size of screen frame distance from the plate, which makes the printing parameters more precise



规格型号Model	KM-6080GL
印刷面积 Printing Area	600*800mm
印刷台面面积 Printing Table Size	940*1100mm
印刷速度 Printing Speed	3.7sec/cycle
网版上升高度 Screen Rise Height	台面起上升Table lifting 500mm
网框最大尺寸 Max. Frame Size	1050*1070mm
印刷物厚度 Print thickness	0~20mm
印刷精度 Printing Accuracy	$\pm 0.01\text{mm}$
电源/功率 Power	3ø, AC380V, 50/60Hz, ~3Kw
使用气压 Air Pressure	4~6Kg/cm <sup>2</sup>
机械尺寸 Dimension	L1920*W1700*H1450MM

## 光伏玻璃丝印机

Photovoltaic Glass Screen Printer

KM-FZBG150260

### 用途 Usage

#### 光伏玻璃的平面印刷

Flat printing of photovoltaic glass

#### 建筑玻璃的平面印刷

Flat printing of architectural glass

#### 装饰玻璃的平面印刷

Flat printing of decorative glass

#### 汽车玻璃的平面印刷

Flat printing of automotive glass



### 产品特点

- 高效、稳定、高精度
- 自动定位，自动刮印，自动出料
- 刮印压力自动平衡加压
- 全伺服工控机轴卡控制系统
- 数字设置自动抬网距离
- 设置有报警系统和机械安全保护装置，以确保整个生产线安全运行

### Features:

- High efficient, stable and high precision
- Automatic registering, automatic scraping printing, automatic discharge.
- Scraping printing pressure automatic balance.
- Full-servo industrial computer axle card control system
- Digital setting of automatic net lifting distance.
- To keep safety, Printing machine has alarm system and mechanical protection devices.

规格型号Model	KM-FZBG150260
最大印刷面积 Max. Printing Area(Y*X)	1500*2600mm
最小印刷面积 Min. Printing Area(Y*X)	600*600mm
最大网框尺寸 Max. Frame Size(Y*X)	3400*2000mm
工作台面积 Work Table Size(Y*X)	1750*3150mm
机械性能 Mechanical Speed	5~6 Pcs/min
印刷厚度 Printing Thickness	2-8mm
机械重复精度 Mechanical Repetition Accuracy	±0.1mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa
适用电源 Power	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	11000*2500*2000mm

## 全自动玻璃丝印机

Full-Automatic glass Screen Printer

### 用途 Usage

#### 家电玻璃平面印刷

Flat glass printing for household electric appliances

#### 家具玻璃平面印刷

Flat glass printing for furniture glass

#### 亚克力材料平面印刷

Flat glass printing for furniture glass acrylic materials

#### 电子玻璃平面印刷

Flat glass printing for electronic glass

#### 圆形/异型玻璃印刷

Round/shaped glass printing



KM-FZ-B65120/CCD

### 产品特点

● 本机自动进料后在预定位区域一次定位即可，满足印刷精度值要求，不需要多次定位或印刷区域重复定位。

● 触控式人机界面+按键式控制方式，双重功能印刷速度，离网高度数字化设定，离网与印刷可实现同步离网功能

● 无场所限制，可单独使用，亦可与全自动生产线连接，真正做到全自动作业

● 可与玻璃清洗机进行对接，印刷后对接自动分片平台与隧道炉连接

● 进料→对位→传送→印刷→退料传送出料→入料完成同程

● CCD自动对位系统，日本配件

● 非标尺寸接受定制

### Featu

● Machine just needs one time registering once the glass automatic fed. It is easy to match printing accuracy value. No need multiple registering or repeat checking in the printing area.

● Human-machine touch panel + Buttons control mode; Dualable function printing speed, digital setting off-grid height. Off-grid and printing can realize synchronous off-grid function.

● No limited of workplace, can be used alone, also could be connected with automatic production line. ● It can be connected with glass cleaning machine, after printing docking automatic fragmentation platform and tunnel furnace connection

● Feeding → Registering → Transfer → Printing → Discharge and transfer → New feeding at the same process.

● CCD automatic registering system, Made in Japan.

● Non-standard size can be customized.

规格型号Model	KM-FZ-B6080/CCD	KM-FZ-B65120/CCD
最大印刷面积 Max. Printing Area(Y*X)	600*800mm	650*1200mm
最大网框尺寸 Max. Frame Size(Y*X)	1100*1400mm	1100*1800mm
工作台面积 Work Table Size(Y*X)	700*1000mm	750*1400mm
机械性产能 Mechanical Speed	350~500 Pcs/H	350~450 Pcs/H
印刷厚度 Printing Thickness	2-20mm	2-20mm
机械重复精度 Mechanical Repetition Accuracy	±0.05mm	±0.05mm
使用工作气压 Operating Air Pressure	0.5-0.6Mpa	0.5-0.7Mpa
适用电源 Power	380V 50Hz	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	4350*1500*2200mm	5550*1500*2200mm

## 全自动玻璃丝印机

Full- Automatic Glass Screen Printer

KM-Z-B80120

## 用途 Usage

## 家电玻璃平面印刷

Flat printing for household electric appliances glass

## 家具玻璃平面印刷

Flat printing for furniture glass

## 亚克力材料平面印刷

Flat printing for furniture glass acrylic materials glass

## 电子玻璃平面印刷

Flat printing for electronic glass



## 产品特点

- 全自动CCD定位，本机可印刷异性玻璃
- 全自动连线工作流程：材料自动预定位→传输→二次精准定位→印刷→检测→传输→烘干
- 采用坚固结构型材，搭配德国力士乐线性导轨令整机印刷动作平稳，套印精准
- 整机高级配制主要部件均选用德国及日本等地多家知名品牌配件，保证机器永久使用寿命

## Features:

- Fully automatic CCD positioning, this machine can print anisotropic glass
- Automatic production line workflow: material automatic Pre-registering → Transfer → Second accurate registering → Printing → Detection → Transfer → Drying
- By strong structure with Germany Rexroth linear guide rail to make sure printing movement steady and accurate overprinting.
- The main parts of the advanced preparation of the whole machine are selected from Germany and Japan and other famous brand accessories, to ensure the permanent service life of the machine

规格型号Model	KM-Z-B80120	KM-Z-B80150	KM-Z-B80180	KM-Z-B80200
最大印刷面积 Max. Printing Area(Y*X)	800*1200mm	800*1500mm	800*1800mm	800*2000mm
工作台面积 Work Table Size(Y*X)	900*1400mm	900*1700mm	900*2000mm	900*2200mm
机械性产能 Mechanical Speed	350~450 Pcs/H	350~430P/H	300~400 Pcs/H	300~350 Pcs/H
印刷厚度 Printing Thickness	3-15mm	3-15mm	5-15mm	5-15mm
机械重复精度 Mechanical Repetition Accuracy	±0.02mm	±0.02mm	±0.02mm	±0.02mm
使用工作气压 Operating Air Pressure	0.5-0.7Mpa	0.5-0.7Mpa	0.5-0.7Mpa	0.5-0.7Mpa
适用电源 Power	380V 50Hz	380V 50Hz	380V 50Hz	380V 50Hz
外观尺寸 Machine Dimension (L*W*H)	4850*1650*1800mm	5800*1650*1800mm	6650*1650*1800mm	7300*1650*1800mm



## 自动化辅助设备

Automated auxiliary equipment



暂存机 Register machine **KM-ZC**

用途 Usage

适用于PCB板的暂存  
Suitable for PCB board temporary storage



自动精密网板涂布机 Automatic precision screen coater **KM-TBJ**

用途 Usage

可用作大面积高精度网板感光乳剂的涂布  
It can be used as coating of large area high precision photographic emulsion



自动插框机 Automatic enclosure machine **KM-CK6373**

用途 Usage

适用于生产线、自动机后工序连线配套使用  
Suitable for production line and automata after process connection matching use



全自动板面除尘清洁机 Automatic panel cleaning machine **KM-CC**

用途 Usage

适用于硬质线路板、金属板平面除尘除静电作业  
Suitable for hard circuit board, metal plate plane dust removal and electrostatic operation.



斜立式投板机 Inclined vertical slinger **KM-XTB6373**

用途 Usage

适用于外层线路板、磨板、阻焊、喷锡等印刷工艺  
Suitable for outer circuit board, grinding board, solder resistance, tin spray printing process



刮刀研磨机 Scraper grinder **KM-GJ**

用途 Usage

适用于修正、研磨刮胶刀刃的专用设备  
Suitable for correcting, grinding and scraping blade special equipment



## 悬挂式热风输送炉

Suspended Type Hot Air Conveying Furnace

### 用途 Usage

#### PCB阻焊预烤

PCB anti-welding pre-baking



机器名称 Machine name	悬挂式热风输送炉 Hanging Heat Air Conveying Furnace
使用尺寸 Use size	PCB板厚0.3-3.2mm, 最大规格尺寸: A款630*730mm B款730*1250mm C款1250*1250mm PCB board thickness: 0.3-3.2mm, PCB size: A.630*730mm B.730*1250mm C.1250*1250mm
排风量 Exhaust air rate	8-12 m/s
电力要求 Electricity demand	AC380V 50Hz 3N 135Kw
气源需求 Air Source Demand	20L/min, 5KG/cm <sup>2</sup> , 1/4" PT接口connector or Φ12管tube
发热装置 Heating Device	特殊高效陶瓷电热器, 热量产生更均匀, 热交换系数更高, 使用寿命更长 Special efficient ceramic electric heater, more uniform heat generation, higher heat exchange coefficient, longer service life
适用温度 Temperature	室温+35°C至Max180°C, 可依要求自由设定, 常用150°C Room temperature range from +10°C to Max. 80°C, can be set freely according to requirements, usually 75°C
进料方式 Feeding mode	真空吸附搭配机械手臂顺利衔接前制程使PCB垂直悬挂进板 The vacuum adsorption is combined with the mechanical arm to make the PCB hang vertically into the board
马达传动 Motor drive	①三相马达, 配合变频器及定位系统使夹具平稳定位输送 ②PTFE输送网, 承载工作持久稳定 ③驱动组件模块化, 节约维修保养时间 ①Three-phase motor, with frequency converter and positioning system to make the fixture positioning and transmitting stably ②PTFE mesh conveyor belt, more durable and stable. ③Modular drive components, saving maintenance time
控制界面 Control Interface	人性化立式操作面板, 触控荧幕画面, 结合操作便利性 & 维修便利性于一体 Humanized vertical operation panel, touch screen, combined with operation convenience and maintenance convenience

### 产品特点

- 温度均匀: 设有PID温控器, 配合高性能SSR提升温度精准度
- 传输稳定: 改进型结构, 不接触板面, 水平进料
- 运行保养方便: 触屏面板操作+每段设有独立门维修门
- 节能高效: 阻焊隧道式烤炉, 悬吊式专利夹板结构
- 入风口中装有过滤器, 避免二次污染

### Features:

- Uniform temperature: PID temperature controller, with high performance SSR to improve temperature accuracy
- Stable transmission: improved structure, do not contact the surface, horizontal feed
- Easy operation and maintenance: touch screen panel operation + each section has an independent door maintenance door
- Energy saving and high efficiency: welding resistance tunnel type oven, suspension type patent splint structure
- The air inlet is equipped with a filter to avoid secondary pollution

侧卡式热风输送炉

Side-clamp Hot Air Conveying Furnace

用途 Usage

PCB防焊预烤

PCB anti-welding pre-baking

PCB塞孔烘烤

PCB plug-hole baking



机器名称 Machine name	侧卡式自动热风输送炉 Side-clamp Automatic Hot Air Conveying Furnace
使用尺寸 Use size	PCB板厚0.8-3.2mm, Min. 350*410mm,Max. 630*1250mm PCB board thickness: 0.8-3.2mm, PCB size: Min. 350*410mm,Max. 630*725mm
排风量 Exhaust air rate	8-12 m/s
产能 Capacity	5~7片/min, 节距可做到 (31.75MM, 25.4MM) 5~7 Pcs/min, pitch (31.75MM, 25.4MM)
温度控制 Temp. Control	每加热段皆有独立温控器, 并配合高性能SSR提升温度精准度 There is an independent temperature controller for each heating section, and high performance SSR to improve the temperature accuracy
发热装置 Heating Device	特殊高效陶瓷电热器, 热量产生更均匀, 热交换系数更高, 使用寿命更长 Special efficient ceramic electric heater, more uniform heat generation, higher heat exchange coefficient, longer service life
进料方式 Feeding mode	无接触式进板传动形式, 双面印刷不影响板面 No contact into the plate drive form, double-side printing does not affect the board.
马达传动 Motor drive	①三相马达, 配合变频器及定位系统使夹具平稳定位输送 ②强扭短输送链条配合高强度耐磨轨道, 承载工作持久稳定 ③驱动组件模块化, 节约维修保养时间 ①Three-phase motor, with frequency converter and positioning system to ensure the fixture transmit stably. ②Strong twisted short conveyor chain with high strength wear-resistant track, more lasting and stable. ③Modular drive components, saving maintenance time.
控制界面 Control Interface	人性化立式操作面板, 触控荧幕画面, 结合操作便利性 & 维修便利性于一体 Humanized vertical operation panel, touch screen, combined with operation convenience and maintenance convenience

产品特点

- 大尺寸+隧道式烤炉, 侧卡式专利卡板机构
- 温度均匀: 设有PID温控器, 配合高性能SSR提升温度精准度
- 传输稳定: 改进型结构, 不接触板面, 水平进料
- 运行保养方便: 触屏面板操作+每段设有独立门维修门
- 节能高效: 阻焊隧道式烤炉, 悬吊式专利夹板结构
- 入风口中装有过滤器, 避免二次污染

Features:

- Large size+ tunnel oven, side card type patent card plate mechanism
- Uniform temperature: PID temperature controller, with high performance SSR to improve temperature accuracy
  - Stable transmission: improved structure, do not contact the surface, horizontal feed
  - Easy operation and maintenance: touch screen panel operation + each section has an independent door maintenance door
- Energy saving and high efficiency: welding resistance tunnel type oven, suspension type patent splint structure
- The air inlet is equipped with a filter to avoid secondary pollution

## 红外线热风水平输送炉

Infrared Hot Air Horizontal Conveying Furnace

### 用途 Usage

#### PCB干燥烘烤

PCB board drying and baking

#### FPC干燥烘烤

FPC board drying and baking

#### PC干燥烘烤

PC drying and baking

#### 玻璃干燥烘烤

Glass drying and baking



机器名称 Machine name	红外线热风水平输送炉 Infrared Hot Air Horizontal Conveying Furnace
使用尺寸 Use size	PCB板厚0.8-2.6mm, Min. 310*310mm, Max. 630*725mm PCB board thickness :0.8-2.6mm, PCB size: Min. 310*310mm, Max. 630*725mm
排风量 Exhaust air rate	8-12 m/s
产 速 Production rate	7 ~ 10 pcs/min
温度控制 Temp. Control	每加热段皆有独立温控器，并配合高性能SSR提升温度精准度 There is an independent temperature controller for each heating section, and high performance SSR is used to improve the temperature accuracy
发热装置 Heating Device	特殊黑体红外线电热器，热量产生更均匀，热交换系数更高，使用寿命更长 Special black body infrared electric heater, more uniform heat generation, higher heat exchange coefficient, longer service life
进料方式 Feeding mode	水平传送 Horizontal transmission
马达传动 Motor drive	①三相马达，配合变频器及定位系统使夹具平稳定位输送 ②PTFE输送网，承载工作持久稳定 ③驱动组件模块化，节约维修保养时间 ①Three-phase motor, with frequency converter and positioning system to make the fixture transmit stably ②PTFE mesh conveyor belt, more durable and stable. ③Modular drive components, saving maintenance time
控制界面 Control Interface	人性化立式操作面板，触控荧幕画面，结合操作便利性及维修便利性于一体 Humanized vertical operation panel, touch screen, combined with operation convenience and maintenance convenience

### 产品特点

- 远红外加热器升温速度快，炉表不传热
- 配合于自动印刷机、PCB喷涂机等各种印刷设备
- 铁氟龙网带输送，经久耐用，不产屑，可选V型不锈钢条传送与PCB双面滚涂机使用；
- 可选上下双面加热设计，确保炉内温度均匀
- 设有过热故障报警指示功能，安全性更高
- 界面操作简易，维护保养简便，使用寿命长

### Features:

- Far infrared heater has fast heating speed and no heat transfer on the furnace surface.
- Suitable for automatic printing press, PCB spraying and coating machine and other printing equipment.
- Teflon mesh conveyor belt is durable and no dust production, both V-shaped stainless steel strip transfer or PCB double-sided roller coating machine can be used ;
- Optional upper and lower double-sided heating design, which ensures internal temperature uniform.
- With overheating fault alarm indicator function, more safety.
- Simple interface operation, easy maintenance, long service life.

## 双列翻页式热风输送炉

Double Row Turning Hot Air Conveyor Furnace

### 用途 Usage

PCB文字后烤  
PCB text after baking



机器名称 Machine name	双列翻页式热风输送炉 Double Row Turning Hot Air Conveyor Furnace
使用尺寸 Use size	PCB板厚0.8-3.2mm, Min. 310*310mm,Max. 630*725mm PCB board thickness: 1-2mm, PCB size: Min. 310*310mm,Max. 630*725mm
排风量 Exhaust air rate	8-12 m/s
产能 Capacity	7片/分钟 (节距可做: 31.75MM, 25.4MM, 19.05MM) 7 Pcs/min,(pitch:31.75MM, 25.4MM, 19.05MM)
温度控制 Temp. Control	每加热段皆有独立温控器, 并配合高性能SSR提升温度精准度 There is an independent temperature controller for each heating section, and high performance SSR is used to improve the temperature accuracy
发热装置 Heating Device	特殊黑体红外线电热器, 热量产生更均匀, 热交换系数更高, 使用寿命更长 Special black body infrared electric heater, more uniform heat generation, higher heat exchange coefficient, longer service life
进料方式 Feeding mode	进料搭配分流机, 双列水平进板, 与打印机, 喷印机完美搭配 Feed with shunt machine, double row horizontal feed plate, perfect match with printer, jet printing machine
马达传动 Motor drive	①三相马达, 配合变频器及定位系统使夹具平稳定位输送 ②强扭短输送链条配合高强度耐磨轨道, 承载工作持久稳定 ③驱动组件模块化, 节约维修保养时间 ①three-phase motor, with frequency converter and positioning system to make the fixture positioning and conveying smoothly ② strong twisting short conveyor chain with high strength wear-resistant track, The bearing work is durable and stable ③Drive module modularization, saving maintenance time
控制界面 Control interface	人性化立式操作面板, 触控荧幕画面, 结合操作便利性及维修便利性于一体 Humanized vertical operation panel, touch screen, combined with operation convenience and maintenance convenience

### 产品特点

- 双列隧道式烤炉, 翻页式板架机构
- 水平进料与全自动印刷线、喷印线完美搭配
- 不接触版面, 改进型结构, 节省场地, 水平送风
- 入风口中装有过滤器, 避免二次污染
- 每段设有独立PID温控器, 配合高性能SSR提升温度精准度
- 每段设有独立维修门, 节省现场维修, 保养时间, 触摸屏面板, 操作简易

### Features:

- Double row tunnel furnace, with page-turning plate frame mechanism
- Horizontal feeding and automatic printing line/spraying line match perfectly.
- Non-contact layout, improved structure, save workshop area, horizontal air supply.
- The air inlet is equipped with a filter to avoid secondary pollution.
- Each section is equipped with an independent PID temperature controller, with high performance SSR to improve temperature accuracy.
- Each section is equipped with an independent maintenance door, saving on-site maintenance, maintenance time, touch screen panel, easy to operate.

# 单列翻页式热风输送炉

Single Row Turning Hot Air Conveyor Furnace

## 用途 Usage

PCB文字后烤  
PCB text after baking



机器名称 Machine name	单列翻页式热风输送炉 Single Row Turning Hot Air Conveyor Furnace
使用尺寸 Use size	PCB板厚0.8-3.2mm, Min. 310*310mm,Max. 630*725mm PCB board thickness 0.8-3.2mm, Min.310 *310mm,Max. 630*725mm
排风量 Exhaust air rate	8-12 m/s
产能 Capacity	7片/min (节距可做: 31.75MM, 25.4MM, 19.05MM) 7 pc/min( pitch:31.75MM, 25.4MM, 19.05MM)
温度控制 Temp. Control	每加热段皆有独立温控器, 并配合高性能SSR提升温度精准度 There is an independent temperature controller for each heating section, and high performance SSR is used to improve the temperature accuracy
发热装置 Heating Device	特殊黑体红外线电热器, 热量产生更均匀, 热交换系数更高, 使用寿命更长 Special black body infrared electric heater, more uniform heat generation, higher heat exchange coefficient, longer service life
进料方式 Feeding mode	双列水平进板, 与打印机, 喷印机完美搭配, 炉内单列烘烤 Double row horizontal feed plate, perfect match with printer, jet printing machine, single row baking in the furnace
马达传动 Motor drive	①三相马达, 配合变频器及定位系统使夹具平稳定位输送 ②强扭短输送链条配合高强度耐磨轨道, 承载工作持久稳定 ③驱动组件模块化, 节约维修保养时间 ① three-phase motor, with frequency converter and positioning system to make the fixture stable positioning and transportation ② Strong twisted short conveyor chain with high strength wear-resistant track, bearing work lasting and stable ③ Drive module modularization, saving maintenance time
控制界面 Control Interface	人性化立式操作面板, 触控荧幕画面, 结合操作便利性及维修便利性于一体 Humanized vertical operation panel, touch screen, combined with operation convenience and maintenance convenience

## 产品特点

- 翻页式隧道烤炉
- 水平进料与全自动喷印完美搭配
- 板面斜立式烘烤, 改进型结构, 节省场地, 水平送风
- 入风口中装有过滤器, 避免二次污染
- 每段设有独立PID温控器, 配合高性能SSR提升温度精准度
- 每段设有独立维修门, 节省现场维修, 保养时间, 触摸屏面板, 操作简易

## Features:

- Page turning tunnel furnace.
- Horizontal feeding and automatic printing match perfectly.
- Plate surface oblique vertical baking, improved structure, save space, horizontal air supply.
- The air inlet is equipped with a filter to avoid secondary pollution.
- Each section is equipped with an independent PID temperature controller, with high performance SSR to improve temperature accuracy.
- Each section is equipped with an independent maintenance door, saving on-site maintenance, maintenance time, touch screen panel, easy to operate.



## 双框精密热风输送炉

Double Frame Precision Hot Air Conveying Furnace

### 用途 Usage

#### PCB阻焊

PCB anti-welding

#### PCB文字后烤

PCB baking after texturing

#### PCB塞孔后烤

PCB baking after plugging hole

#### PCB棕化后烤

PCB browning after baking



### 产品特点

- 无尘：内炉为SUS不锈钢制作，不会对产品造成二次污染
- 节能：头尾气闭门封闭，尽可能地减少能源消耗量
- 安全：机械超温保护，主温控上下限超温防止回路，作最安全温度防护器，超温温度异常时，警报通知外，自动切断系统电源，进行人工安全确认。
- 专业研发定制型力骨，搭配高强度链条，承载力更高。配合强扭矩输送马达，涡轮蜗杆减速机，输送稳定强劲。
- 双框式步进输送，两筐同时进炉烘烤，节省能源，提高产能，节省空间。
- 炉内耐高温马达，搭配大风量多翼式风轮，温度均与可靠，可根据生产需求阶段性升温
- 出口搭配大风量轴流风扇对版面冷却，降低对周边环境的影响，增加操作亲和力

### Features:

- Dust-free: The inner furnace is made of SUS stainless steel, which will not cause secondary pollution to the product
- Energy saving: The head exhaust valve is closed to reduce energy consumption as much as possible
- Safety: Mechanical overheat protection, main temperature control upper and lower limit over-temperature prevent short-circuit. As the safest temperature protection device, upon over-temperature emergence, beside alert notification, it will automatically cut off the system power, and execute artificial safety confirmation.
- Professional research and development of customized force bone, with high strength chain, higher bearing capacity. With strong torque transmission motor, turbo worm reducer, stable and strong transmission.
- Double frame step conveying, two baskets into the Furnace at the same time, save energy, improve productivity, save space.
- With high temperature resistant motor in the furnace, and large air volume and multi-wing wind wheel, the temperature is reliable, and it can gradually heated up according to the production demand.
- The outlet is equipped with large air volume axial flow fan to cool the layout, reduce the impact on the surrounding environment, and increase the operation affinity.

机器名称 Machine name	双框精密热风输送炉 Double Frame Precision Hot Air Conveying Furnace.
机台内尺寸 Internal dimensions	1580*755 mm
排风量 Exhaust air rate	8-12 m/s
电力需求 Electricity Demand	AC380V 50Hz 3相 AC380V 50Hz 3-phase
气源需求 Air Source Demand	20L/min, 50KG/Cm <sup>2</sup> , 1/4" PT接口connector or Φ12管tube
发热装置 Heating Device	特殊黑体红外线电热器，热量产生更均匀，热交换系数更高，使用寿命更长 Special black body infrared electric heater, more uniform heat generation, higher heat exchange coefficient, longer service life
进料方式 Feeding mode	双框插板架同时进板，步进间距762mm，可有效放框宽度558.5mm Double frame insert plate frame at the same time, which step spacing is 762mm, effectively width of the frame is 558.5mm.
适用温度 Temperature	室温+50℃至Max. 160℃，可依要求自由设定，常用150℃ Room temperature from +50℃ to Max. 160℃, can be set freely according to requirements, commonly used 150℃
控制界面 Control Interface	人性化立式操作面板，触控荧幕画面，结合操作便利性及维修便利性于一体 Humanized vertical operation panel, touch screen, combined with operation convenience and maintenance convenience

## 阻焊真空后精密热风输送炉

Precision Hot Air Transfer Furnace After Solder Resistance Vacuum

### 用途 Usage

#### PCB阻焊预烤

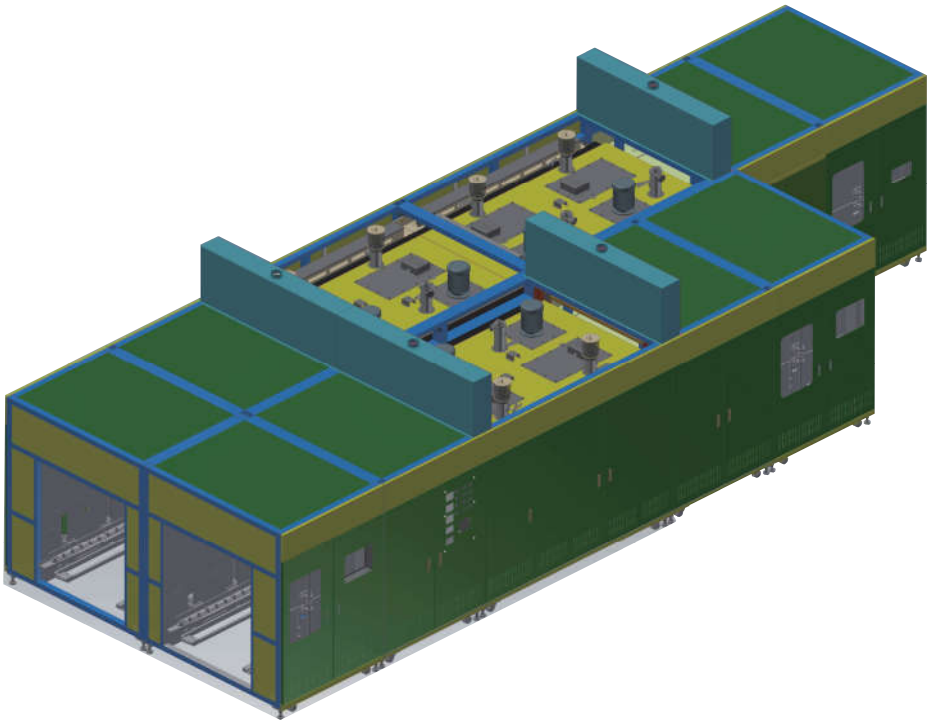
PCB solder resist pre-bake

#### PCB塞孔后烤

PCB baking after plugging hole

#### PCB棕化后烤

PCB browning after baking



### 产品特点

- 无尘：内炉为SUS不锈钢制作，不会对产品造成二次污染
- 节能：头尾气闸门封闭，尽可能地减少能源消耗量
- 安全：机械超温保护，主温控上下限超温防止回路，作最安全温度防护器，超温温度异常时，警报通知外，自动切断系统电源，进行人工安全确认。
- 专业研发定制型力骨，搭配高强度链条，承载力更高。配合强扭矩输送马达，涡轮蜗杆减速机，输送稳定强劲。
- 框架式步进输送，可搭配AGV进行自动化生产，全程实现无人工生产。
- 炉内耐高温马达，搭配大风量多翼式风轮，温度均与可靠，可根据生产需求阶段性升温
- 出口搭配大风量轴流风扇对版面冷却，降低对周边环境的影响，增加操作亲和力

### Features:

- Dust-free: The inner furnace is made of SUS stainless steel, which will not cause secondary pollution to the product
- Energy saving: The head exhaust valve is closed to reduce energy consumption as much as possible
- Safety: mechanical over-temperature protection, main temperature control upper and lower limit over temperature prevention circuit, as the safest temperature protection device, over-temperature temperature anomaly, alarm notification, automatically cut off the system power, artificial safety confirmation.
- Professional research and development of customized force bone, with high strength chain, higher bearing capacity. With strong torque transmission motor, turbo worm reducer, stable and strong transmission.
- Frame type step conveying, can be matched with AGV for automatic production, the whole process to achieve no manual production.
- High temperature resistant motor in the furnace, with large air volume and multi-wing wind wheel, the temperature is reliable, according to the production demand can be gradually heated up
- The outlet is equipped with large air volume axial flow fan to cool the layout, reduce the impact on the surrounding environment, and increase the operation affinity

棕化后精密热风输送炉

Precision Hot Air Conveying Furnace After Browning

用途 Usage

PCB防焊预烤

PCB solder resist pre-bake

PCB塞孔后烤

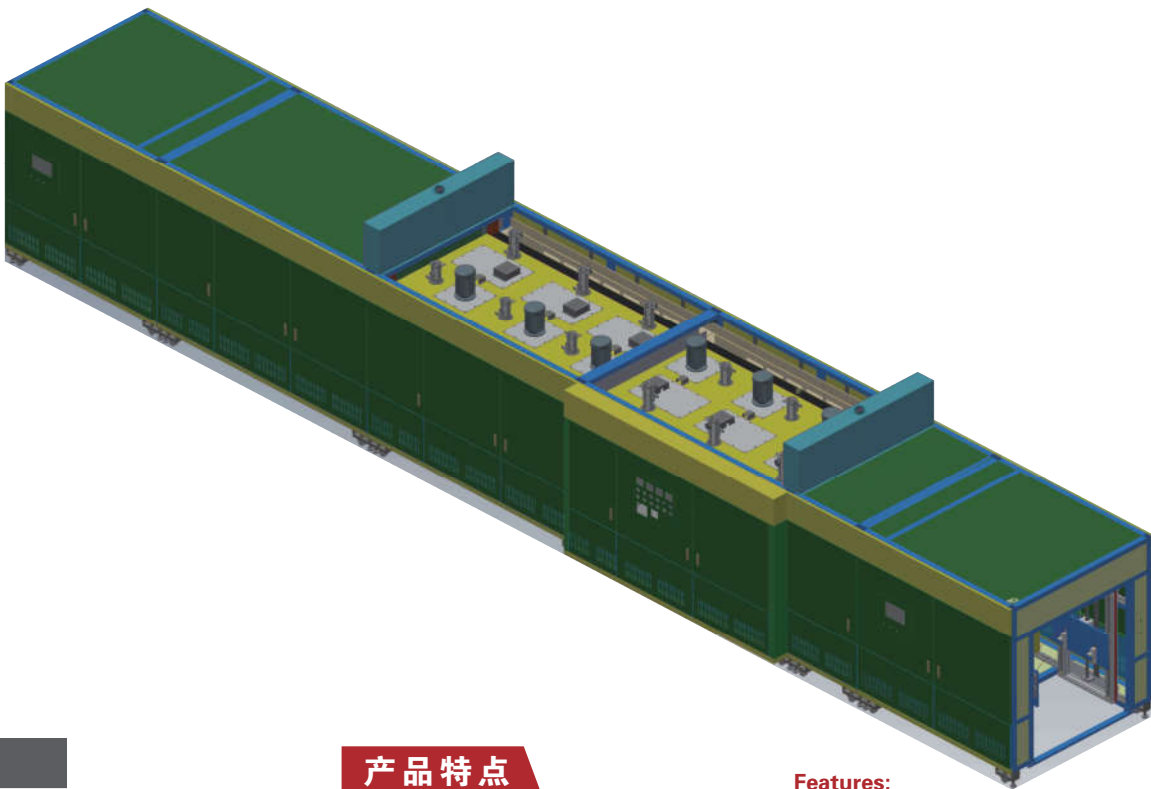
PCB baking after plugging hole

PCB棕化后烤

PCB baking after plugging hole

PCB电镀

PCB electroplating



产品特点

- 无尘：内炉为SUS不锈钢制作，不会对产品造成二次污染
- 节能：头尾气动门封闭，尽可能地减少能源消耗量
- 安全：机械超温保护，主温控上下限超温防止回路，作最安全温度防护器，超温温度异常时，警报通知外，自动切断系统电源，进行人工安全确认。
- 专业研发定制型力骨，搭配高强度链条，承载力更高。配合强扭矩输送马达，涡轮蜗杆减速机，输送稳定强劲。
- 框架式步进输送，可搭配AGV进行自动化生产，全程实现无人工。
- 炉内耐高温马达，搭配大风量多翼式风轮，温度均与可靠，可根据生产需求阶段性升温
- 出口搭配大风量轴流风扇对版面冷却，降低对周边环境的影响，增加操作亲和力

Features:

- Dust-free: The inner furnace is made of SUS stainless steel, which will not cause secondary pollution to the product
- Energy saving: The head exhaust valve is closed to reduce energy consumption as much as possible
- Safety: mechanical over-temperature protection, main temperature control upper and lower limit over-temperature prevention circuit, as the safest temperature protection device, over-temperature temperature anomaly, alarm notification, automatically cut off the system power, artificial safety confirmation.
- Professional research and development of customized force bone, with high strength chain, higher bearing capacity. With strong torque transmission motor, turbo worm reducer, stable and strong transmission.
- Frame type step conveying, can be matched with AGV for automatic production, the whole process to achieve no manual labor.
- High temperature resistant motor in the furnace, with large air volume and multi-wing wind wheel, the temperature is reliable, according to the production demand can be gradually heated up
- The outlet is equipped with large air volume axial flow fan to cool the layout, reduce the impact on the surrounding environment, and increase the operation affinity

机器名称 Machine name	棕化后精密热风输送炉 Precision Hot Air Conveying Furnace After Browning
机台内尺寸 Internal dimensions	800*800mm
电力需求 Electricity Demand	AC380V 50Hz 3N
气源需求 Air Source Demand	20L/min, 50KG/Cm <sup>2</sup> , 1/4" PT接口connector or Φ12管tube
发热装置 Heating Device	特殊黑体红外线电热器，热量产生更均匀，热交换系数更高，使用寿命更长 Special black body infrared electric heater, more uniform heat generation, higher heat exchange coefficient, longer service life
进料方式 Feeding mode	框架式插板进料，可对接自动化收放板机，前方可搭配阻焊真空机，实现自动化生产 Frame type insert plate feeding, can be connected to automatic retracting and releasing board machine, the front end can be equipped with welding resistance vacuum machine, to realize automatic production
适用温度 Temperature	室温+20°C至Max. 160°C，可依要求自由设定，常用75°C/150°C Room temperature from +20°C to Max. 160°C, can be set freely according to requirements, commonly used 75°C/150°C
控制界面 Control Interface	人性化立式操作面板，触控荧幕画面，结合操作便利性及维修便利性于一体 Humanized vertical operation panel, touch screen, combined with operation convenience and maintenance convenience

精密氮气烤箱

Precision Nitrogen Furnace

用途 Usage

PCB开料

PCB open material

PCB塞孔

PCB plug hole

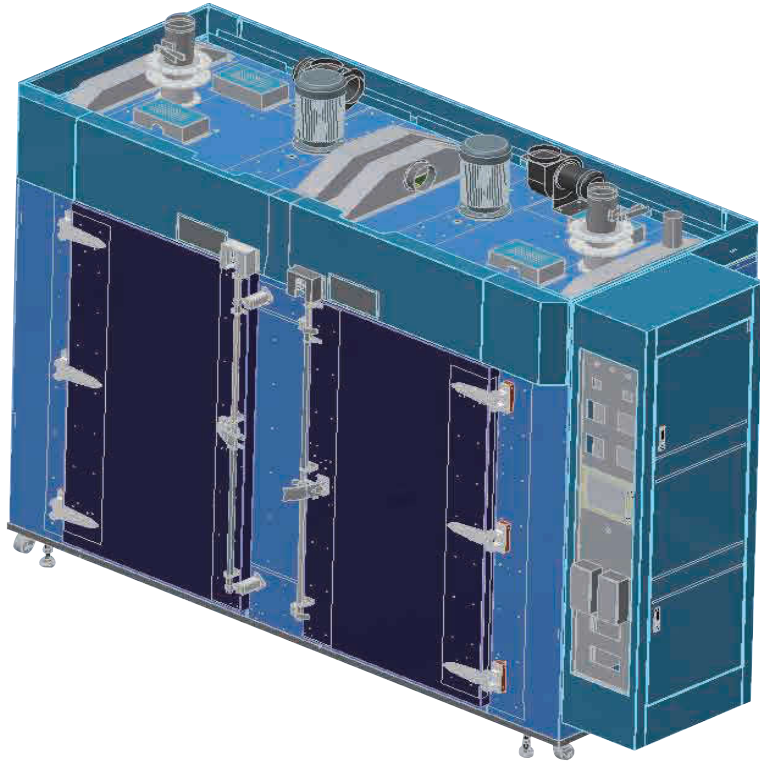
PCB电镀后烤

PCB electroplated baking

PCB文字后烤

PCB text after baking

机器名称 Machine name	精密氮气烤箱 Precision Nitrogen Furnace
机台内尺寸 Internal dimensions	宽840*高1500*深800mm
电力需求 Electricity Demand	AC380V 50Hz 3N
气源需求 Air Source Demand	20L/min, 50KG/Cm <sup>2</sup> , 1/4" PT接口connector or Φ12管tube
发热装置 Heating Device	特殊黑体红外线电热器，热量产生更均匀，热交换系数更高，使用寿命更长 Special black body infrared electric heater, more uniform heat generation, higher heat exchange coefficient, longer service life
生产方式 production mode	人机PLC操作，全流程控制，可实现MES配方下发，有效防止人为造成的工艺流程失误 Man-machine PLC operation, the whole process control, can realize MES formula delivery, effectively prevent man-made process errors
适用温度 Temperature	室温+20°C至Max. 160°C，可依要求自由设定，常用75°C/150°C Room temperature from +20°C to Max. 160°C, can be set freely according to requirements, commonly used 75°C/150°C
控制界面 Control Interface	人性化立式操作面板，触控荧幕画面，结合操作便利性 & 维修便利性于一体 Humanized vertical operation panel, touch screen, combined with operation convenience and maintenance convenience



产品特点

- 密封性佳
- 保温性好
- 氮气含量95%以上
- 无尘：内炉为SUS不锈钢制作，不会对产品造成二次污染
- 节能：头尾气闭门封闭，尽可能地减少能源消耗量
- 安全：机械超温保护，主温控上下限超温防止回路，作最安全温度防护器，超温温度异常时，警报通知外，自动切断系统电源，进行人工安全确认。
- 炉内耐高温马达，搭配大风量多翼式风轮，温度均与可靠，可根据生产需求阶段性升温
- 增加安全生产保护，烘烤时间到方可打开安全门。

Features:

- Good sealing
- Good heat preservation
- Nitrogen content above 95%
- Dust-free: The inner furnace is made of SUS stainless steel, which will not cause secondary pollution to the product
- Energy saving: The head exhaust valve is closed to reduce energy consumption as much as possible
- Safety: mechanical overtemperature protection, main temperature control upper and lower limit overtemperature prevention circuit, as the safest temperature protection device, overtemperature temperature anomaly, alarm notification, automatically cut off the system power, artificial safety confirmation.
- High temperature resistant motor in the furnace, with large air volume and multi-wing wind wheel, the temperature is reliable, according to the production demand can be gradually heated up
- Increase safety production protection, baking time to open the safety door.



## 红外线输送炉

Infrared Conveying Furnace

### 用途 Usage

#### 油墨干燥

Ink drying

#### 建筑玻璃油墨干燥

Building glass ink drying

#### 家电玻璃油墨干燥

Home appliance glass ink drying

#### 汽车玻璃油墨干燥

Automotive glass ink drying



机器名称 Machine name	红外线输送炉 Infrared Conveying Furnace
适用尺寸 Board Size	玻璃厚度: 3-5mm, Max: W450*L450mm, Min: W160*L120mm
生产效率 Production Efficiency	0.5~2.5M/Min; W450*L450: 6 pcs/min, W200*L220mm: 12 pcs/min
干燥条件 Condition	常用速度1.5m/min, 烘烤时间10min (依小板计算产能) Commonly used speed 1.5m/min, baking time 10min (according to the small plate calculation capacity)
加热排风量 Heating exhaust air volume	3CMM/8mmAq*16, (风速wind speed 10m/s)
进出料排风量 Feeding&Discharging Exhaust Air Volume	3CMM/4mmAq*16, (风速wind speed 8m/s)
机台用料 Machine Materials	内炉采用SUS不锈钢板, 外部采用SPCC高阶冷板, 烤漆处理内部填充高端硅酸铝隔热棉, 保温效果更佳 SUS stainless steel plate is used in the inner furnace, and SPCC high level cold plate is used for the exterior. The interior is filled with high-end aluminum silicate thermal insulation cotton, which has a better insulation effect.
马达传动 Motor drive	①三相马达, 配合变频器及定位系统使夹具平稳定位输送 ②驱动组件模块化, 节约维修保养时间 ① three-phase motor, with frequency converter and positioning system to make the fixture stable positioning and transportation ② Drive module modularization, saving maintenance time
电力需求 Power Demand	AC380V 50HZ 3N 175KVA
气源需求 Air Source Demand	10L/min, 5KG/cm <sup>2</sup> , 1/4" PT接口connector or Φ12管tube
适用温度 Temperature	室温+20℃至Max. 200℃, 可依要求自由设定, 板面稳定时温度分布±10℃ Room temperature from +20℃ to Max. 200℃, can be set freely according to requirements. Temperature distribution is ±10℃ when the surface is stable.

### 产品特点

- 特殊远红外线加热器升温速度快, 炉表不传热;
- 配合于自动玻璃印刷机设备;
- 铁佛龙辊轮输送, 经久耐用;
- 炉内风道优化设计, 确保炉内温度均匀;
- 设有热故障报警指示功能, 安全性更高;
- 优化排气设计, 利于引进洁净空气, 使污染挥发性气体排除炉外;
- 人性化立式操作面板, 结合操作便利及维修便利性于一体。

### Features:

- Special far infrared heater heating speed is fast, furnace surface does not heat transfer;
- Suitable for automatic glass printing equipment;
- Tefulong roller conveying, durable;
- Optimized design of air duct in the furnace to ensure uniform temperature in the furnace;
- With heat fault alarm indicator function, higher safety;
- Optimized exhaust design, conducive to the introduction of clean air, so that the pollution of volatile gas out of the furnace;
- Humanized vertical operation panel, combined with convenient operation and maintenance in one.