

# LIKE

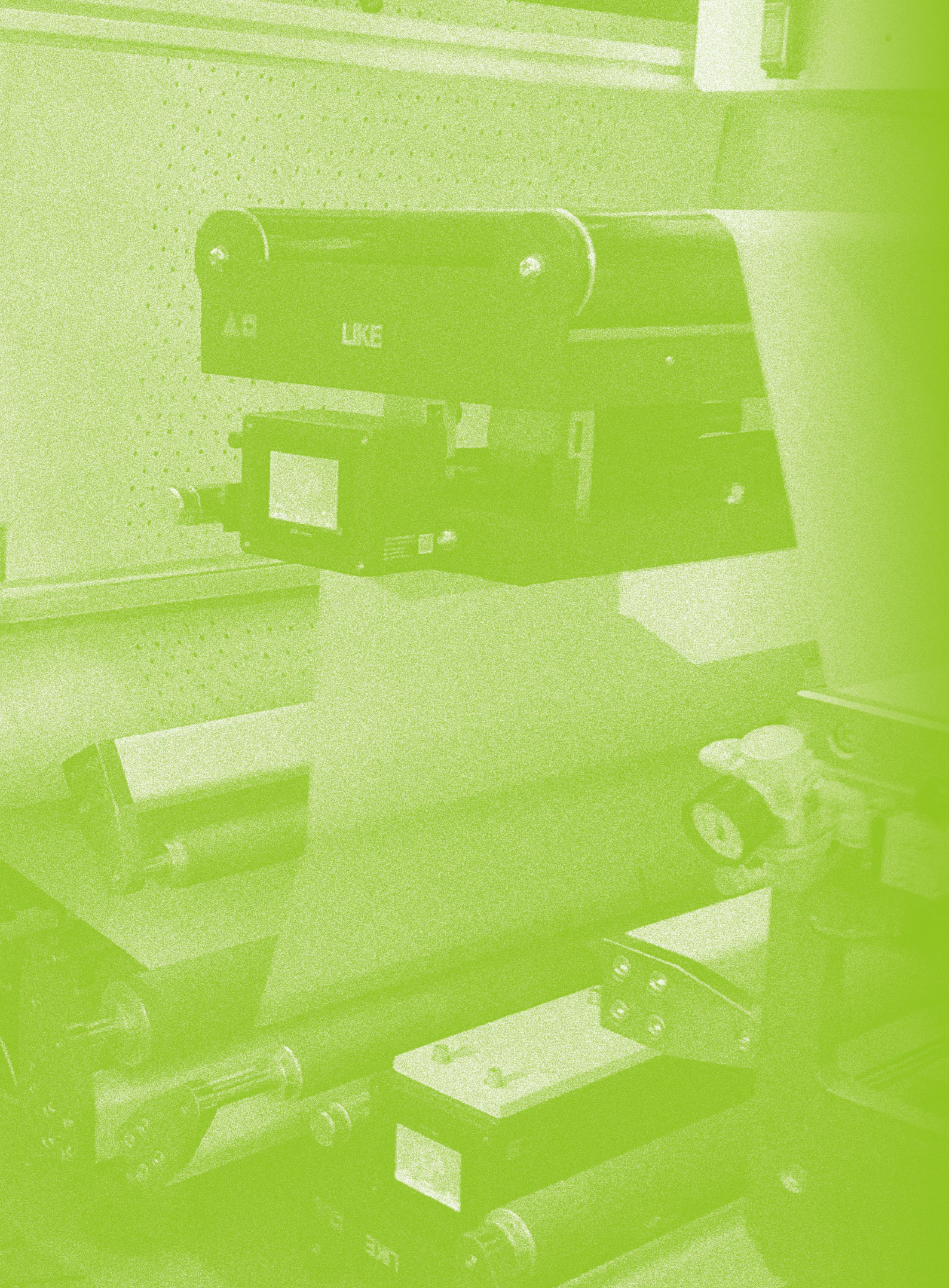
立克纠偏  
控制系统

# LIKE WEB GUIDING CONTROL SYSTEMS

纠偏实力

比肩国际

立克科技



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LIKE 立克科技





# COMPANY PROFILE

## 公司简介

立克电气科技有限公司是一家专业生产和销售卷材工业纠偏控制系统的厂商。

LIKE Electrical Technology Co., Ltd. is a professional company that produce and sale industrial web guiding control systems.

公司自成立以来，专注于纠偏控制系统的研发、生产和创新。在长期的发展中，始终本着“唯有内在，得以永恒”的企业理念和“高速纠偏，掌控精度”的产品理念，专精于纠偏控制系统领域，凭借产品的卓越性能、高稳定性和优良的售前售后服务标准，在行业中形成了良好的口碑。立克纠偏控制系统在印刷机、分切机、吹膜机、造纸机、生活用纸机、检品复卷机、复合涂布机上广泛应用，并赢得广大客户的认可。

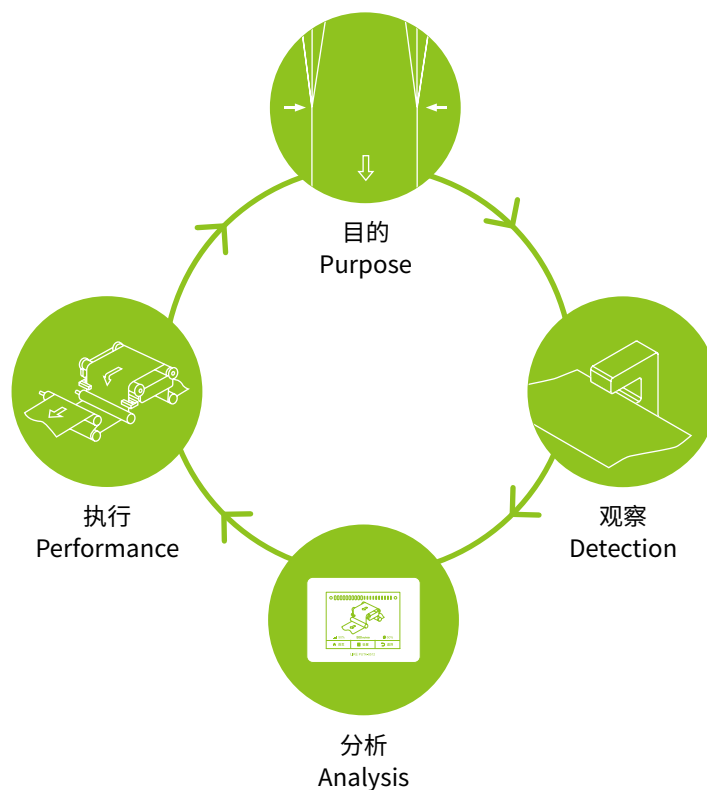
Since the inception, LIKE focuses on production and innovation of web guiding control systems. In the long-term development, we have adhered to the corporate "Sustainable development based on superior quality" and our concept of products "high-speed correction, accuracy under control". Rely on superior performance、high stability and excellent after-sales service, LIKE acquires an outstanding reputation in the industry. LIKE web guiding control systems have widely used in the printing machine, cutting machine, film blowing machine, paper machine, tissue paper machine, rewinding machine, film-coating machine. We have win recognition from our customers.

公司以市场为导向，以创新求发展，立足当下、放眼未来、追求卓越，以优质的产品和服务，做消费者钟爱的品牌，以精湛细致的工艺，力求完美，帮助每一位合作伙伴成功创富，与广大用户一起共创美好未来！

LIKE is guided by the market, developed by innovation, based on the present and look forward to the future. We aim to become a consumer favorite brands by providing the excellence products and services, and help each partner to succeed. We will create our better future with all our customers.

# WEB GUIDING CONTROL PROCEDURES

## 纠偏控制程序



所有的自动化控制系统都依据简单的控制循环，即使是最复杂的生产过程也都可以实现。

目的：解决材料位置的偏差。

观察：传感器以非接触式检测材料边缘，依工序及材质不同，可选用不同类型的传感器。

分析：控制器根据实际与预设参数值，然后转化成校正信号传至执行机构。

执行：执行机构纠正材料的方向和角度，从而达到纠偏目的。

All the automation systems are based on a simple control loop, even the most complicated production procedure can be realized.

**Purpose:** The essential is to correct deviation of material position.

**Detection:** The sensor detects the material edges without touching. Sensors are available in various types of different materials, depending on the working procedure and materials adopted.

**Analysis:** The controller converts the actual value and preset parameter value into correction signal which is transmitted to the actuator.

**Performance:** The actuator corrects direction and angle of the materials to reach the purpose of web guiding.

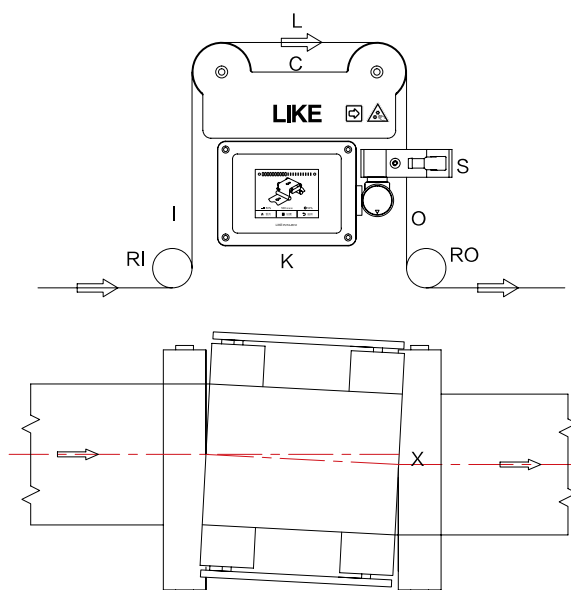
# WEB GUIDING SYSTEM WORKING PRINCIPLE

## 纠偏系统工作原理

由纠偏控制器、执行机构、产品基材和传感器组成一个闭环控制系统。生产线上的产品基材有指定位置，基材左右移动时传感器便产生信号送给控制器，信号经处理放大后，推动执行机构伺服电机，从而迅速、正确地执行纠偏工作，使产品基材返回到指定的位置。

The closed-loop control system consists of the guiding controller, performing mechanism, product material and sensors. Product material are supposed to run on their own track on the produce lines; when they swaying, the sensors will produce a signal and send it to the web guiding controller. The amplified signal drives the performing mechanism's servo motor to proceed a proper guiding control, restoring the product material back to its specified position. The driving signal sent to the servo motor is a linear scale signal.

### • 结构图 Structure diagram



- |  |                                    |
|--|------------------------------------|
| L 进、出料辊距离 Distance between ingoing roller and discharge roller | C 物料纠偏盘 Material correction pallet |
| I 进料端 Ingoing side   | S 光电传感器 Photoelectric sensor       |
| RI 进料辊 Ingoing roller  | O 出料端 Discharge side               |
| K 控制器 Controller   | RO 出料辊 Discharge roller            |
|  | X 纠偏修正量 Correctinon value          |

# PTFL SERIES ACTUATOR

## 执行机构 PTFL 系列

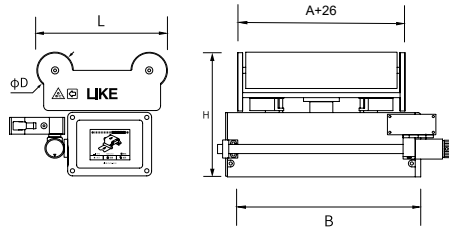
立克纠偏控制系统为卷材工业生产带来创新纠偏方式，在完成初始化校正后，其高度数字化和智能化设计尽可能的减少人工设置和手动操作。立克纠偏器可根据生产状况实时参数调整，满足不同材料的生产需求，以达到最佳的纠偏效果。高集成、高性能及精心的外观设计，使得安装和操作都十分便捷。

LIKE web guiding control systems bring an innovative way of guiding the web to the converting industry; a guiding system that does not require any setup or manual recalibration after initialization calibration. In order to achieve the optimal web guiding effect, the technology in LIKE can adjust the system parameter in real time according to the production situation to meet the production needs of different materials. High integration, aesthetic and functional design make it easy to install and operate.



### PTFL 紧凑型系列 PTFL Series Compact Type

#### • 结构图 Structure diagram



PTFL 系列规格表 PTFL Series Specifications Table

Model 型号	A	B	D	L	H
160H	160	262	60	217	206
250H	250	322	60	217	206
300H	300	372	60	217	206
400H	400	472	60	247	206
500H	500	572	60	247	206
600H	600	672	60	322	206
700H	700	772	60	322	206

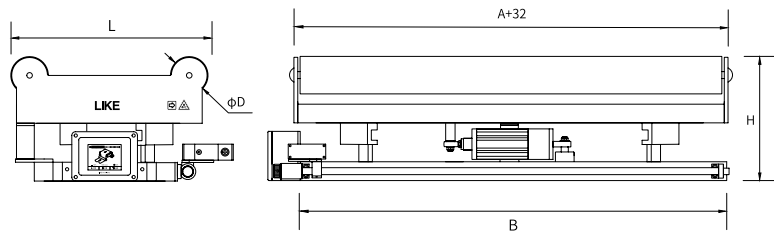


技术资料 Technical Information	
最大修正量 X Max Guiding Value	±15-25mm
U型通过时张力 U-Shaped Passing Tension	200N - 800N
修正速度 Guiding Speed	40 - 60mm/sec
修正精度 Guiding Accuracy	< ±0.1mm ( 由材料决定 Decided by the material)
环境温度 Ambience Temperature	10 - 50°C
空气湿度 Air Humidity	0 - 90%
防护等级 Protection Class	IP54
操作电压 Operating Voltage	24VDC ±5%
电力消耗 Power Consumption	60VA



## PTFL 框架型系列 PTFL Series Frame Type

### • 结构图 Structure diagram



PTFL 系列规格表 PTFL Series Specifications Table

Model 型号	A	B	D	L	H
900H	900	910	80	420	265
1000H	1000	1010	80	420	265
1100H	1100	1110	100	450	276
1200H	1200	1210	100	450	276

技术资料 Technical Information	
最大修正量 X Max Guiding Value	±25 - 30mm
U型通过时张力 U-Shaped Passing Tension	1000N - 2000N
修正速度 Guiding Speed	20 - 40mm/sec
修正精度 Guiding Accuracy	< ±0.1mm ( 由材料决定 Decided by the material)
环境温度 Ambience Temperature	10 - 50°C
空气湿度 Air Humidity	0 - 90%
防护等级 Protection Class	IP54
操作电压 Operating Voltage	24VDC ±5%
电力消耗 Power Consumption	60VA

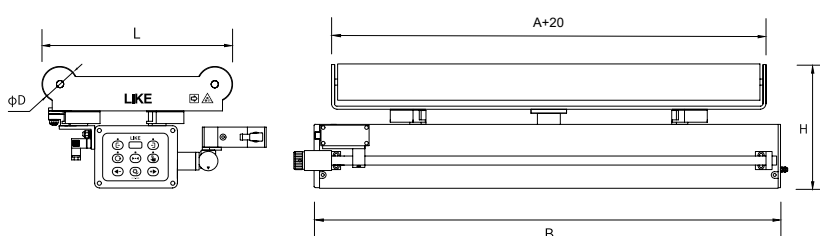
# PDFL SERIES ACTUATOR

## 执行机构 PDFL 系列



### PDFL 紧凑型系列 PDFL Series Compact Type

#### • 结构图 Structure diagram



PTFL 系列规格表 PTFL Series Specifications Table

Model 型号	A	B	D	L	H
160C	160	262	60	217	206
250C	250	322	60	217	206
300C	300	372	60	217	206
350C	350	422	60	247	206
400C	400	472	60	247	206
450C	450	522	60	247	206
500C	500	572	60	247	206
600C	600	672	60	322	206
700C	700	772	60	322	206
800C	800	772	60	360	206

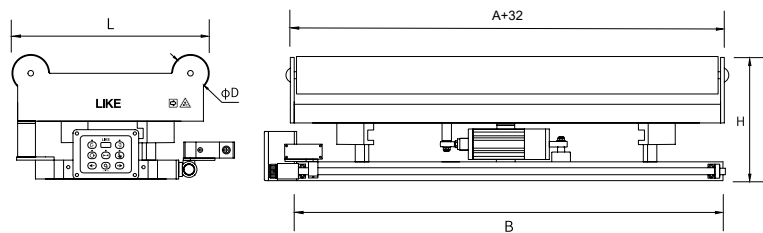
#### 技术资料 Technical Information

最大修正量 X Max Guiding Value	±15-25mm
U型通过时张力 U-Shaped Passing Tension	200N - 800N
修正速度 Guiding Speed	40 - 60mm/sec
修正精度 Guiding Accuracy	< ±0.1mm ( 由材料决定 Decided by the material)
环境温度 Ambience Temperature	10 - 50°C
空气湿度 Air Humidity	0 - 90%
防护等级 Protection Class	IP54
操作电压 Operating Voltage	24VDC ±5%
电力消耗 Power Consumption	60VA



## PDFL 框架型系列 PDFL Series Frame Type

### • 结构图 Structure diagram



PDFL 系列规格表 PDFL Series Specifications Table

Model 型号	A	B	D	L	H
900C	900	910	80	420	265
1000C	1000	1010	80	420	265
1100C	1100	1110	100	450	276
1200C	1200	1210	100	450	276

### 技术资料 Technical Information

最大修正量 X Max Guiding Value	±25 - 30mm
U型通过时张力 U-Shaped Passing Tension	1000N - 2000N
修正速度 Guiding Speed	20 - 40mm/sec
修正精度 Guiding Accuracy	< ±0.1mm ( 由材料决定 Decided by the material)
环境温度 Ambience Temperature	10 - 50°C
空气湿度 Air Humidity	0 - 90%
防护等级 Protection Class	IP54
操作电压 Operating Voltage	24VDC ±5%
电力消耗 Power Consumption	60VA

# CONTROLLER

## 控制器

我们针对智能纠偏控制系统的互动体验和界面做了全面升级。拥有 3.5 英寸的触摸控制屏，让用户可以直观的调整运行参数，同时呈现更丰富的运行信息。

We have upgraded the interactive experience and interface of the intelligent web guiding control system. With a 3.5-inch touch control screen, it allows users to intuitively adjust operating parameters while presenting richer operational information.



### PUTA - 8512 触屏式控制器 Touch Screen Controller

#### 技术资料 Technical Information

型号 Model	PUTA - 8512
电源输入 Power Input	24VDC $\pm$ 5%

#### 输入信号 Input Signal

1. 传感器信号 0 - 5V (模拟量)  
Sensor signal 0 - 5V (Analog signals)
2. 位置采集信号 (模拟量)  
Position Sampling Signal  
(Analog signals)

#### 输出信号 Output Signal

$\pm$ 24VDC max.0.8A(PWM)

以下情形发生，系统将自动关闭  
The system will shut down automatically if the following circumstances occur

#### 输出保护 Output Protect

1. 电机短路  
Motor output short circuit
2. 纠偏移动严重受阻  
Actuator is seriously blocked

电力消耗 Power Consumption	60VA
环境温度 Ambience Temperature	10 - 50°C
空气湿度 Air Humidity	0 - 90%
防护等级 Protection Class	IP54
外壳 Outer Shell	铝质压铸成型 Aluminum die - casting

传感器 Sensor	传感器接入系统自动识别检测位置 Sensor access to the system can automatic identify the detection position
------------	--



## PUTA-8500 按键式控制器 Push-button Controller

- 面板简洁 • Simple panel
- 操作简单 • Easy to use
- 一键搞定 • One button works

### 技术资料 Technical Information

型号 Model	PUTA - 8500
电源输入 Power Input	24VDC $\pm$ 5%

输入信号 Input Signal	1. 传感器信号 0 - 5V (模拟量) Sensor signal 0 - 5V (Analog signals) 2. 位置采集信号 (模拟量) Position Sampling Signal (Analog signals)
-------------------	---

输出信号 Output Signal	$\pm$ 24VDC max.0.8A(PWM)
--------------------	---------------------------

输出保护 Output Protect	以下情形发生，系统将自动关闭 The system will shut down automatically if the following circumstances occur 1. 电机短路 Motor output short circuit 2. 纠偏移动严重受阻 Actuator is seriously blocked
---------------------	--

电力消耗 Power Consumption	55VA
------------------------	------

环境温度 Ambience Temperature	10 - 50°C
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空气湿度 Air Humidity	0 - 90%
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防护等级 Protection Class	IP54
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外壳 Outer Shell	铝质压铸成型 Aluminum die - casting
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传感器 Sensor	传感器接入系统自动识别检测位置 Sensor access to the system can automatic identify the detection position
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# SENSOR

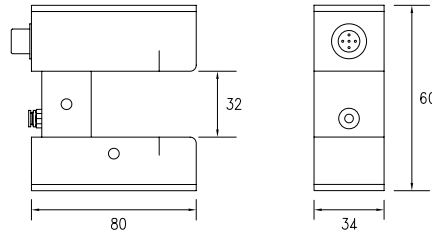
## 传感器

- 方便安装的红外线传感器
  - 用于纠边或对中
  - 允许对有效纠偏点调整
  - 不受卷材平面改变和周围光线影响
  - 标准检测间隙 32 - 50mm，检测范围 23mm
  - 灵巧的安装支架和调位装配
  - 微气流除尘，确保检测精度
  - 防静电保护
- 
- Simply assembled infrared sensors
  - For the edge detection or centering
  - Allow adjustment for valid web guiding point
  - Not affected by the change of materiel surface and surrounding lights
  - Standard detection gap 50mm, detection range 23mm
  - Flexible mounting rack and positioning
  - Micro-air dedust to ensure detection accuracy
  - Anti-static protection



## EC-3280B 红外线传感器 Infrared Sensor

### • 结构图 Structure diagram



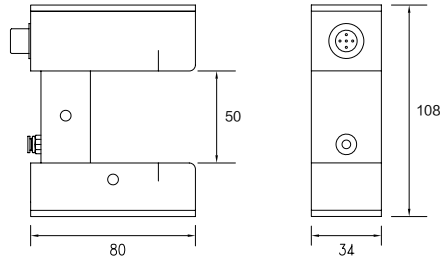
### 红外线传感器技术资料 Sensor technical data

型号 Model	EC-3280B
电源输入 Power Input	DC+12V( 由控制器专供 Controller supply)
入口间距 Detection Gap	32mm
信号类型 Signal Type	红外线光源 (免维护) Infrared Lighting (Maintenance - free)
输出信号 Output Signal	传感器信号 0 - 5V (模拟量) Sensor signal 0 - 5V (Analog signals)
信号范围 Signal Range	23mm 圆柱形光源 Cylinder light source Valid diameter 23mm
检测类型 Detection Type	物料检边, 对中 Materiel edge, centering
环境温度 Ambience Temperature	10 - 50°C
空气湿度 Air Humidity	0 - 90%
抗光干扰 Anti - Light Interference	阳光 10,000 LUX, 日光灯 3,000 LUX Sunlight 10,000 LUX, Daylight lamp 3,000 LUX
防护等级 Protection Class	IP54
外壳 Outer Shell	铝质精制 Aluminum die - casting
传感器尺寸 Sensor Size	80×60×34mm
重量 Weight	422g
损耗性零件 Consumption Accessory	None 无
保养 Maintenance	擦拭红外线视窗油污灰尘 Wipe infrared lens dirt and dust



## EC-5080B 红外线传感器 Infrared Sensor

### • 结构图 Structure diagram



### 红外线传感器技术资料 Sensor technical data

型号 Model	EC-5080B
电源输入 Power Input	DC+12V (由控制器专供 Controller supply)
入口间距 Detection Gap	50mm
信号类型 Signal Type	红外线光源 (免维护) Infrared Lighting (Maintenance - free)
输出信号 Output Signal	传感器信号 0 - 5V (模拟量) Sensor signal 0 - 5V (Analog signals)
信号范围 Signal Range	23mm 圆柱形光源 Cylinder light source Valid diameter 23mm
检测类型 Detection Type	物料检边, 对中 Materiel edge, centering
环境温度 Ambience Temperature	10 - 50°C
空气湿度 Air Humidity	0 - 90%
抗光干扰 Anti - Light Interference	阳光 10,000 LUX, 日光灯 3,000 LUX Sunlight 10,000 LUX, Daylight lamp 3,000 LUX
防护等级 Protection Class	IP54
外壳 Outer Shell	铝质压铸成型 Aluminum die - casting
传感器尺寸 Sensor Size	80×108×34mm
重量 Weight	462g
损耗性零件 Consumption Accessory	None 无
保养 Maintenance	擦拭红外线视窗油污灰尘 Wipe infrared lens dirt and dust

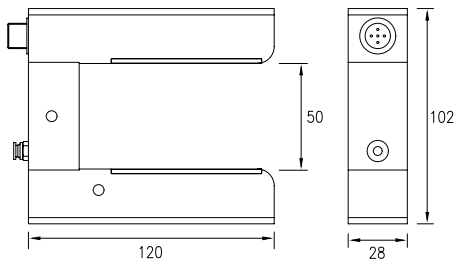




## EC- 40xxB 系列宽幅红外线传感器 Wide range Infrared Sensor

- 可视范围 36mm、70mm、100mm
- 在传感器可视范围内对材料表面偏移进行电子控制，无需手动调节
- 检测均质材料，非透明材料
- 运行稳定
- 粉尘极多时可选除尘装置
- Visual range 36mm, 70mm, 100mm
- The material surface offset can be controlled electronically in the visible range of the sensor without manual adjustment.
- Detection of homogeneous and non-transparent materials
- Stable operation
- Dust removal device is optional when there is very much dust

### • 结构图 Structure diagram



### 宽幅红外线传感器技术资料 Sensor technical data

型号 Model	EC-4036B、EC-4070B、EC-40100B
电源输入 Power Input	DC+12V( 由控制器专供 Controller supply )
入口间距 Detection Gap	50mm
信号类型 Signal Type	红外线光源 (免维护) Infrared Lighting (Maintenance - free)
输出信号 Output Signal	传感器信号 4 - 12mA Sensor signal 4 - 12mA
信号范围 Signal Range	36mm、70mm、100mm
检测精度 Detection Accuracy	±0.05mm
检测类型 Detection Type	物料检边，对中 Materiel edge, centering
环境温度 Ambience Temperature	0 - 45°C
空气湿度 Air Humidity	0 - 90%
防护等级 Protection Class	IP54
外壳 Outer Shell	铝质精制 Aluminum die - casting
传感器尺寸 Sensor Size	EC-4036B 100×102×28mm EC-4070B 120×102×28mm EC-40100B 150×102×28mm
重量 Weight	354g, 380g, 444g
损耗性零件 Consumption Accessory	None 无
保养 Maintenance	擦拭红外线视窗油污灰尘 Wipe infrared lens dirt and dust



## ES-4019D 超声波传感器 Ultrasonic Sensor

超声波传感器应用高频超声波直线传播的原理，用来检测卷材的边缘位置。不受材料透光度的影响。适用于不透气材料的纠边应用。

Ultrasonic sensors apply the principle of linear propagation of high-frequency ultrasonic waves to detect the position of the edge of a web. Unaffected by material permeability. Suitable for edge correction applications on impermeable materials.

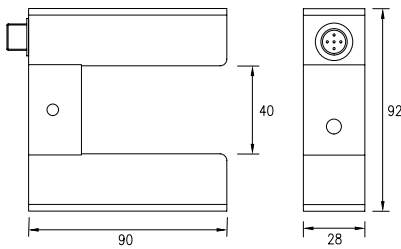
### 传感器性能介绍

- 非接触式超声波传感器
- 适用于透明胶膜及底片
- 用于纠边或对中
- 信号为圆柱形，有效直径为 19mm
- 灵巧的安装支架和调位装配。

### ES-4019D Characterization

- Non-contact ultrasonic sensor
- Apply to transparent film and base film
- For the edge detection or centering
- Cylindrical signal, valid diameter 19mm.
- Flexible mounting rack and positioning

### • 结构图 Structure diagram



### 超声波传感器技术资料 Ultrasonic Sensor technical data

型号 Model	ES-4019D
电源输入 Power Input	DC+12V( 由控制器专供 Controller supply )
入口间距 Detection Gap	40mm
信号类型 Signal Type	超声波 Ultrasonic
输出信号 Output Signal	传感器信号 0 - 5V (模拟量) Sensor signal 0 - 5V (Analog signals)
信号范围 Signal Range	圆柱形，有效直径范围 19mm Cylinder light source Valid diameter 19mm
检测精度 Detection Accuracy	±0.05mm
检测类型 Detection Type	透明物料检边 Transparent materiel edge
环境温度 Ambience Temperature	0 - 45°C
空气湿度 Air Humidity	0 - 90%
防护等级 Protection Class	IP54
外壳 Outer Shell	铝质精制 Aluminum die - casting
传感器尺寸 Sensor Size	90×92×26mm
重量 Weight	315g
损耗性零件 Consumption Accessory	None 无
保养 Maintenance	保持探头清洁 Keep the probe clean

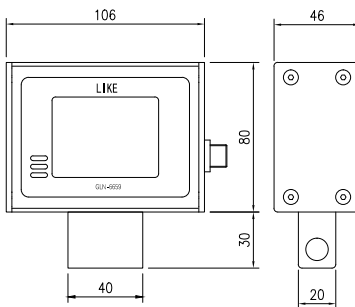


## GLN-6659 纠偏系统CCD视觉传感器 Web Guiding Control System CCD Vision Sensor

立克视觉传感器配有高分辨率CCD线阵芯片及镜头模组，用于检测连续或非连续的线，也可跟踪材料的边缘及不同颜色间的分界线。这款传感器的检测范围宽，信号输出稳定。采用彩色触控屏作为人机界面，调试简单，操作方便。

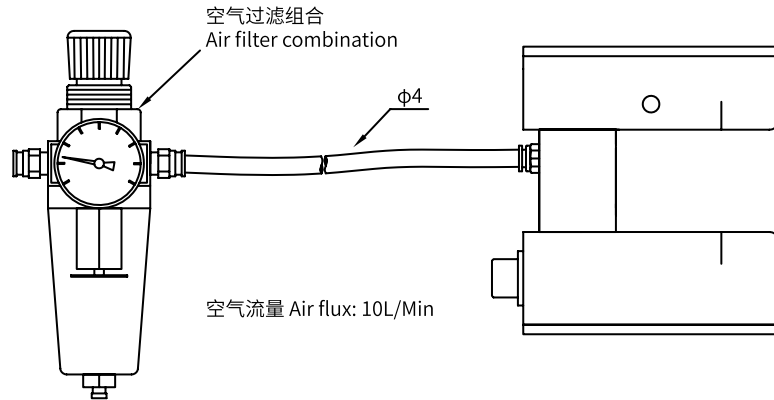
LIKE Vision Sensor equipped with high resolution CCD linear chip and lens module. It can be used to detect the continuous or discontinuous line, and also to track the edge of the material or the dividing line between different colors. It has wide detection range and stable signal output. Color touch screen is adapted as the man-machine interface, it's simple debugging and easy operating.

### • 结构图 Structure diagram



CCD 视觉传感器技术资料 CCD Visual Sensor technical data	
型号 Model	GLN-6659
电源输入 Power Supply	DC24V
识别线 Line Detection	线宽 $\geq 0.2\text{mm}$ Line Width $\geq 0.2\text{mm}$
反映时间 Reaction Time	0.5ms
模拟量输出 Analog Output	0-5V
分辨率 Resolution	0.02mm
扫描频率 Scanning Frequency	8MHz
安装距离 Installation Distance	20-40mm
防护等级 Protection Class	IP54
外壳材质 Shell Material	铝合金 Aluminum Alloy
尺寸 Size Dimension	106x46x80mm
重量 Weight	642g
损耗性零件 Consumption Accessory	None 无
保养 Maintenance	保持探头清洁 Keep the probe clean

## EC 系列传感器除尘气压连接图 EC Series Sensor Dedust Air Connection Diagram



# FINE-ADJUSTMENT MECHANISM

## 微调机构

可调节检测物料边缘的位置，微调精度 0.01mm，微调范围 20mm。对生产线走向不同，可灵活调整微调旋钮的位置。

Position adjustment of the sensor-detecting material edge is available. The fine adjustment precision is 0.01mm and its range is 20mm. The position of fine adjustment can be flexibly deployed based on the layout of production lines.



# LINEAR ACTUATORS

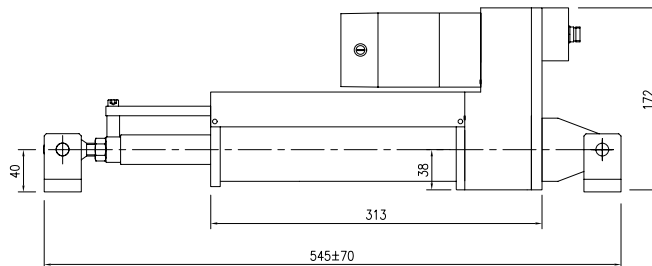
## 线性推动器

线性推动器主要用于放卷或收卷机构或框架式纠偏结构中。通过固定前后的安装座与可位移的纠偏机构连接，实现材料纠偏的效果。线性推动器具有高执行精度，大推力，以及可定制化行程等特点，充分满足多种复杂的工位要求，实现精准纠偏。

Linear actuators are mainly used in unwind and rewind mechanisms, they also apply to frame-type web guide mechanisms. The front and back installation seat is connected with the displacement web guide mechanism to realize the effect of rectifying the deviation of the material. The characteristics of linear actuators are high accuracy, high thrust, and customizable stroke, which fully meet a variety of complex station requirements, to achieve accurate web guiding.



### • 结构图 Structure diagram



### 线性推动器技术资料 Linear Actuators Technical Data

型号 Model	IGU - 30	IGU - 100	IGU - 150	IGU - 200
行程 (mm) Stroke	30	50 - 100	100 - 150	100 - 200
最大推力 (kg/f) Max Thruse	50	100	180	250
驱动速度 (mm/sec) Driver Speed	25	20	15	10

### 放卷与收卷工作原理

### Operation Principle Of Unwind And Winding

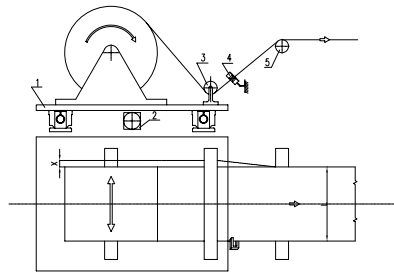
通常的生产加工过程中包含材料的移动，放卷装置位于机器入料口，放料装置由线性驱动器来移动数个装置，收卷装置籍由线性驱动器来跟随材料位置变化，移动收卷以达到精准齐边收料。

Most production and processing procedures involve transport of materials. The unrolling device is located at the material inlet of the machine; a linear drive keeps the feeding device running. The rolling device follows the variation of materials positions via the linear drive, so that it will be 6 positioned for taking up the materials with accurate edge alignment.

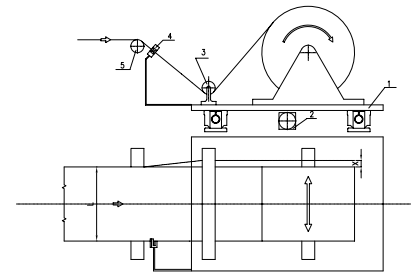
放卷纠偏：该方法主要用于卷材展开进入过程加工中，通过纵向移动托料转筒角度，来确保卷材始终按预设的位管进行开卷作业，检边传感器独立固定，在开卷过程中，它的位置不随转筒角度变化。

**WEB GUIDING IN THE PROCESS OF UNROLLING** : The application is adopted for the unrolling and feeding of rolled materials. It ensures the rolled materials are unrolled at a preset position by means of changing the carrier roll's angle vertically. The edge-detecting sensor is separately fixed; its position does not vary with the carrier roll's angle during the unrolling and feeding process.

• 放卷纠偏结构图 Structure diagram



• 收卷纠偏结构图 Structure diagram



1. 卷材架 Material stand      2. 线性推动器 Linear pusher  
3. 过渡辊 Pass-over roller      4. 传感器 Sensor      5. 出料过渡辊 Discharge roller

收卷纠偏：此方式主要用于确保卷材收取卷料边整齐，收卷纠偏与放卷纠偏在安装时有较大区别，这是传感器与收卷轴为一体，在传感器与收卷轴之间也需安装 - 导向辊，导向辊使得收卷时卷材水平夹角不小于 20-30 度。这样由于与收卷轴一体的传感器一直跟踪卷边，所以卷边能够齐整。

**WEB GUIDING IN THE PROCESS OF ROLLING:** The application is intended for producing a well-aligned and neat edge for rolled-up materials. Installation of rolling web guiding differs greatly from that of unrolling web guiding in that, the sensor is integrated with the rolling shat, a guide roller has to be installed between the sensor and the rolling roller, and the guide roller should be such that the rolled material form a angle of no less than 20-30 ° against level surface during rolling process. In this way, as the sensor integrated in the rolling roller keeps tracking the rolled materials' edge, the edges will be aligned and neat.

# LIKE CUSTOMIZED PRODUCT

## 立克定制产品

立式对折执行机构 Folding Actuator



接料执行机构 Receiving Actuator



展平执行机构 Flattening Actuator

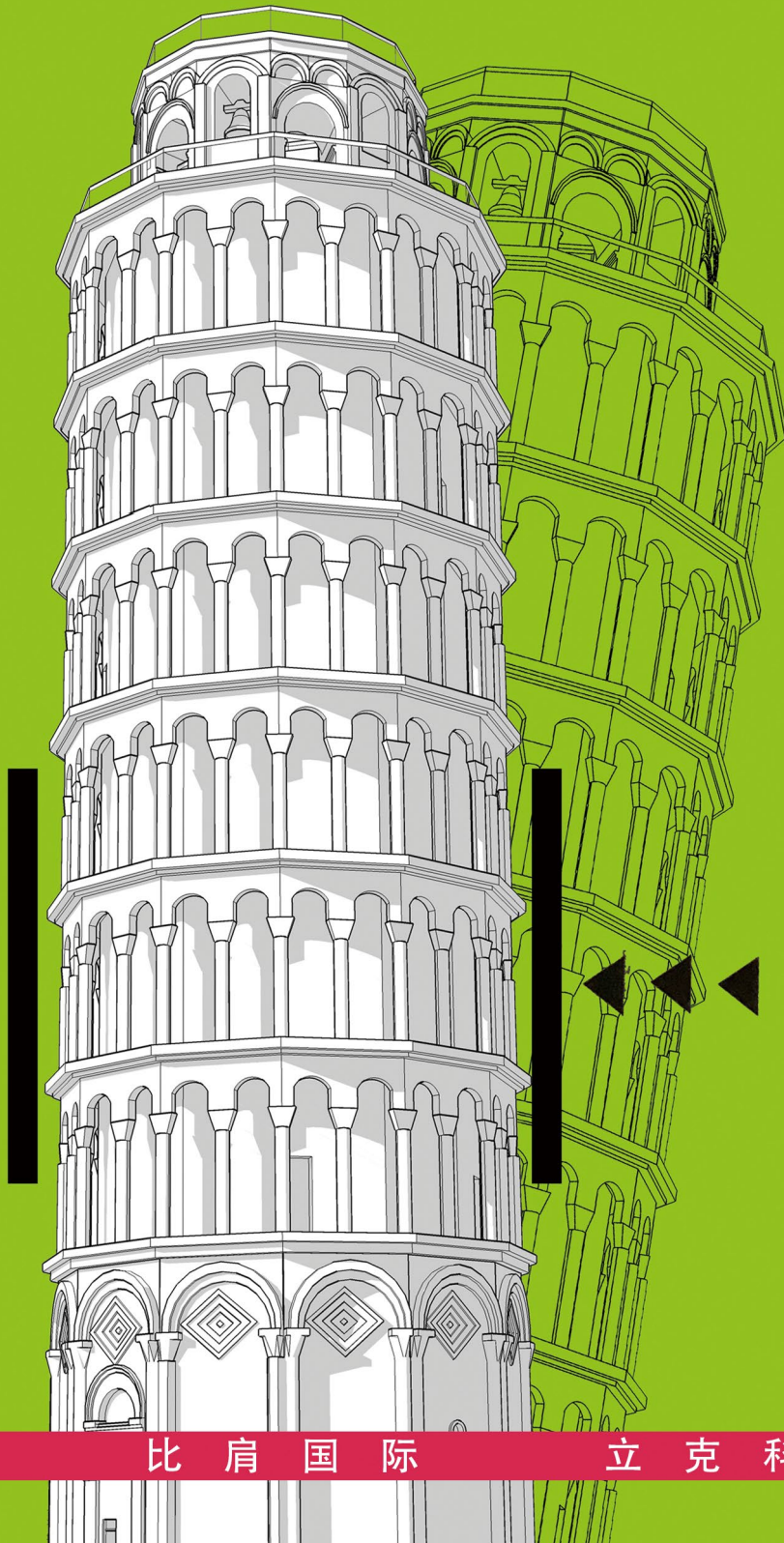


直角转向纠偏机构  
Right-angle steering correction mechanism



位移纠偏辊架  
Displacement Correcting Roll Stand



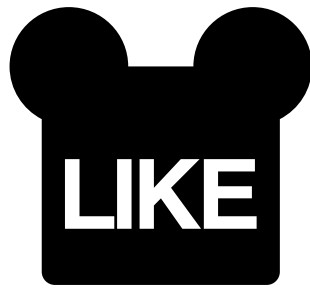


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