▶ **技术创新是企业的生命力**
Technological innovation is the vitality of enterprises

▶ **品质和服务是企业不容侵犯的自尊心**
Quality and service is the inviolable pride of an enterprise.

瑞安市中星工控设备有限公司
ZHONGXING INDUSTRY CONTROL
EQUIPMENT CO.,LTD RUIAN CITY

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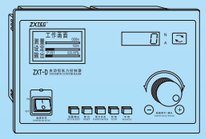
ZXTEC®



中星工控 行业领航者

ZHONGXING INDUSTRY CONTROL

瑞安市中星工控设备有限公司





诚信为本 客户为先

增强客户的满意为宗旨
赢得广大客户的信赖

To enhance customer satisfaction as the purpose
Win the trust of our customers



ZXTEC®

BRIEF 公司简介 Introduction

瑞安市中星工控设备有限公司于1998年成立(原名为瑞安市中星电子控制设备厂)，是一家专业研发、生产工业自动化控制电子电器产品的企业。产品主要应用于包装机械、印刷机械、塑料机械等机械制造业。公司自创立以来始终以“质量第一是企业永恒的宗旨，顾客期望是企业追求的目标”为质量方针，在产品的研发和技术更新不断引进高新技术，并吸取国内外同类产品之精华，敢为人先的研发新产品致力于向广大用户提供更优秀、更完善的产品及技术服务。矢志追求卓越的精神及不断研发制造的丰富历练使公司成功地开发出系列高性能的工控设备 -- 自动恒张力控制器（已通过CE认证）、光电纠偏控制器（模拟纠偏光电眼获国家发明专利）、分切机控制系统、长度与速度控制器、数量控制器、电机调速控制器等系列产品，产品得到了国内外用户的广泛好评。

公司本着“以诚信为本、以客户为先” 的经营理念，在追求产品完美品质的同时，不断完善服务体系，期待与更多的新老客户共同发展合作！

ZhongXing industry control equipment co., Ltd established in 1998. It is an enterprise that researches and produces electrical and industrial products which controlled automatically. The products are mainly applying on the package machine, printing machine, plastic machine and so on. Since founded, our company always insists the quality policy of “ the quality first is the eternity aim of the enterprise, the customer’s expectation is the target that the enterprise pursued”. We concentrate on the large customers to provide more superior, more perfect products and technique services with our products, we dare behavior to develop a new product first, so we usher advance techniques continuously to update and absorb the essence of the same kind of product at home or abroad. Devote to pursue the outstanding spirit and the abundant experience of researching and manufacturing continuously. Our company has already developed the high performance industrial controlling devices successfully such as automatic constant tension controller(already pass CE authentication), photoelectric-correct controller (photoelectric eyes of simulate correction controller obtain the national patent for invention), control system of cutting machine, length and pace controller, quantity controller and motor baffle-board controller etc. The products have got the extensive favorable comment of domestic and international users.

Our company goes forward to carry through the management theory of “take trustworthiness as the origin and take customer as the first”, while pursuing perfect quality of the products, improving service system constantly, expecting with more old and new customers to develop and cooperate together!









ZXT automatic constant tension control series

ZXT自动恒张力控制系列

ZXT系列全数字高精度型自动恒张力控制器，主要由张力检测器，高精度A/D、D/A转换器，高性能单片机等组成。该自动恒张力控制器是根据张力检测器测量到卷料的张力与设定的目标张力相比较后，经单片机PID运算自动调整D/A输出从而改变磁粉离合，制动器的励磁电流或伺服电机的转矩来实现卷料的恒张力控制。可广泛应用于各种需要张力进行精密测控的场合，具有使用灵活和广泛的适用性。其中ZXT-C型是针对印刷机而设计的，它具有两路输出，可对印刷机的双工位收卷实现预启动自动换轴，并且具有自动接料裁切的输出功能。

ZXT series full digital and high precision automatic constant tension controller is mainly composed of tension detector, high precision A/D, D/A converter, high performance single chip microcomputer and so on. According to the setting target tension, tension controller would compare tension of detector, then adjust output analog to change the Magnetic Power Clutch or Servo Motor, make working tension to realize the constant controlled It can be widely used in all kinds of situations where tension needs to be accurately measured and controlled, and has flexible and wide applicability. Among them, ZXT-C is designed for printing press. It has two outputs, which can pre-start and automatically change the shaft for the double position rewinding of the printing press, and has the output function of automatic receiving and cutting.

ZXT-D 自动恒张力控制器 ▶

Automatic constant tension controller

★ 张力输出2000细分，精度更高
★ 采用铝面板外观大气美观
★ 主板一体化超强抗干扰
★ 具有485通讯接口
★ 带刹车功能

★ Tension output 2000 subdivision, higher accuracy
★ Using aluminum panel appearance beautiful
★ Main board integration of super anti-interference
★ With a 485 communication interface
★ With the brake function





▲ ZXT-A-600 自动恒张力控制器
Automatic constant tension controller



▲ ZXT-B-600 自动恒张力控制器
Automatic constant tension controller



▲ ZXT-C-600 自动恒张力控制器
Automatic constant tension controller

ZXT-MF 自动恒张力控制器 ▶

Automatic constant tension controller

- 液晶显示器可选择中文或英文显示
- 自动与手动切换简单方便
- 张力检测器布线简单方便
- 便捷的参数设置
- 带双工位换轴输出功能
- 具有反向张力调整功能(ZXT-A)
- 带双工位预启动输出功能(ZXT-C)
- 通过Modbus协议通讯易于多机管理 (ZXT-D、ZXT-A、ZXT-C、ZXT-MF)

- LCD can be displayed in Chinese or English
- Easy and convenient for automatic and manual switching
- Simple and convenient for tension detector wiring
- Convenient parameter setting
- Output function with double-position shaft
- With reverse tension adjustment function (ZXT-A)
- With dual station pre-boot output function (ZXT-C)
- Communication through Modbus Protocol is easy to manage (ZXT-D、ZXT-A, ZXT-C, ZXT-MF)



技术参数 Parameter:

型号Model	ZXT-B	ZXT-D	ZXT-A	ZXT-C	ZXT-MF
测量精度 Measure accuracy	< ±1牛顿 (Newton)				
采样速度 Sample pace	100ms				
主输出方式 Main output	DC30V/0-2A恒流源输出 (适配负载阻抗8-12Ω) Constant electric current output DC30V/0-2A (Suitable impedance 8-12Ω)			30V/0-1.5A两路恒流源输出，接磁粉离合器或磁粉制动器 30V/0-1.5A two channel output,connect magnetic powder clutch or brake	
辅助输出 Assistance output	1路DC 0-5V(MAX 10MA)模拟量信号输出 Analog signal output DC 0-5V(MAX 10MA)			2路DC 0-5V模拟量信号输出 Two channel analog signal output DC 0-5V	
通讯功能 Communication	/	RS-485 可多台张力控制器同步使用和PLC通讯 RS-485 can make several sets of tension controllers communicate with PLC.			
面板尺寸 Size of front-panel	245 × 155 × 140mm	245 × 155 × 70mm	245 × 155 × 140mm		180 × 110 × 112(mm)(宽Width × 高Height × 深Depth)
安装尺寸 Installation size	230 × 150 × 120mm	230 × 150 × 52mm	230 × 150 × 120mm		163 × 102 × 97(mm)(宽Width × 高Height × 深Depth)
电源 Power	AC 180-245V/50-60HZ				



▲ 轴式张力检测器 Axial tension detector



▲ 立式张力检测器 Vertical tension detector

ZXTS 张力信号放大器 ▶

Tension signal amplifier

ZXTS张力放大器是一款专门为本公司张力检测器而设计的放大器，该放大器将张力检测器的信号放大后输出DC0-5V或DC0-10V模拟量，同时张力信号转换成数字信号由液晶显示器显示或者通过RS-485和PLC通讯。

ZXTS tension amplifier is designed for our company's tension detector. It amplifies the signal of the tension detector to DC0-5V or DC0-10V analog, while the tension signal is converted into a digital signal and displayed by the LCD, or communicate with PLC via RS-485.

产品特点 Product characteristics:

1. 张力最大测量范围: 600N/1000N/2000N
2. 模拟量输出电压: DC5V/0-10V (可选)
3. 张力测量精度: 1N
4. 通信接口: RS485 Modbus 通讯
5. 张力检测器信号电压: 0-350MV
6. 液晶显示语言: 中文/英文
7. 张力信号处理: 去除皮重和张力滤波
8. 工作电源: AC100-240V 或 DC12V
9. 安装尺寸: 92 × 46 × 75mm(宽 × 高 × 深)

1. Maximum measurement range of tension: 600/1000N/2000N
2. Analog output voltage: DC5V/0-10V optional
3. Tension measurement accuracy: 1N
4. Communication Interface: RS485 Modbus Communication
5. Tension detector signal voltage: 0-350MV
6. LCD language: Chinese / English
7. Tension signal processing: Remove tare and tension filtering
8. Working power: AC100-240V or DC12V
9. Installation size: 92 × 46 × 75mm(Width × High × Depth)



Analog photoelectric deviation correct control system

模拟光电纠偏控制系统

模拟纠偏控制器是一款高性能模拟纠偏控制器，它采用三相交流同步电动机作为纠偏电动机，对纠偏电动机的方向和速度采用变频驱动技术实现控制(专利技术)。模拟量信号输入接口具有信号电压范围宽，可匹配具有模拟量输出的光电眼或超声波传感器做跟边模拟纠偏控制。该纠偏控制系统具有纠偏响应速度快、推力大、使用寿命长等特点，可广泛的应用于印刷、包装等机械上作高精度纠偏控制。

Analog EPC controller is a high-performance analog correction controller that uses a three-phase AC synchronous motor as the correction motor. It controls the direction and speed of the correction motor using variable frequency drive technology (patented). The analog signal input interface has a wide voltage range, allowing it to match with photoelectric eyes or ultrasonic sensors that have analog output for precise analog correction control. This correction control system features fast response time, high thrust, and long service life, making it suitable for high-precision correction control in printing, packaging, and other machinery.



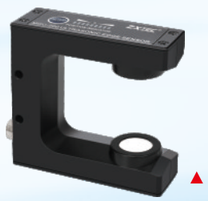
▲ GK-21 模拟纠偏控制器
Analog EPC controller



▲ GK-11 模拟纠偏控制器
Analog EPC controller

技术参数 Parameter:

型号 Model	GK-11	GK-21
工作电源 Work power	AC 180-240V / 50-60HZ / 2A (Max)	
输入信号 Input signal	单路模拟量信号(0-7V) single-channel analog signal	一路模拟量信号(0-5V) / 一路MGU-08A光电型传感器接 One analog signal (0-5V) / One MGU-08A photoelectric sensor connection
输出方式 Output mode	三相变频 0-85HZ (Three phase inverter 0-85HZ)	
响应速度 Responding speed	< 0.05秒 (S)	< 0.03秒 (S)
控制特点 Control character	模拟跟边纠偏 simulation of side-to-side deviation correction	
控制方式 Control mode	自动/自动居中/手动 Auto/ Auto centering / Manual	
工作环境 Work conditions	温度0-40℃湿度80%RH以下 Temperature 0-40℃ humidity below 80%RH	
安装方式 Installing mode	嵌入式/立式 Insertion/vertical	
嵌入式安装尺寸 Install size	100.5 × 70 × 73mm (宽Width × 高Height × 深Depth)	135 × 88 × 44mm (宽Width × 高Height × 深Depth)



▲ MGU-200 超声波电眼
Ultrasonic sensor



▲ MGU-08A 槽型光电眼
Photoelectric sensor



▲ 电眼连接线
Sensor wire

技术参数 Parameter:

型号 Model	MGU-08C	MGU-08A	MGU-200
工作电源 Power	DC 10-15V/50MA	DC 12V	DC 12-24V
检测方式 Detection mode	透射检边 Detection edge		对边跟踪 Edge tracking
检测范围 Detection scope	± 4.0mm	< 8mm	6mm(± 3.0mm)
光源 Light source	高寿命LED发光管 Long life LED light		200k超声波对射 Ultrasonic relatively
模拟量输出 Analog output	DC 2-6.5V	/	DC 0-5V
开关量输出 Digital output	两路集电极开路输出 (OC/NPN) Two channels output(OC/NPN)	/	两路集电极开路输出 (OC/NPN) Two-way open-circuit collector output (OC/NPN)
响应速度 Responding speed	< 0.01秒 (S)		0.05m/s
外壳材料 Outer material	ABS 塑料 Plastic		
工作环境 Working condition	温度0-40℃湿度80%RH以下 Temperature 0-40℃ humidity below 80% RH		

ZXW 模拟纠偏导正架 (300-600mm)

Analog web guide frame

本模拟纠偏控制系统由纠偏架、纠偏控制器和传感器组成，系统采用交流同步电机代替传统的直流电机或步进电机作为纠偏电机，对电机的方向和速度采用智能变频控制（专利技术），纠偏控制器可适配各种传感器对不同材料的检测。该系统具有成本低，使用寿命长等特点，可以广泛应用于印刷机械、包装机械等。

This analog deviation correction control system is composed of a deviation correction frame, a deviation correction controller and a sensor. The system uses an AC synchronous motor instead of a traditional DC motor or a stepper motor as the deviation correction motor. The direction and speed of the motor are controlled by intelligent frequency conversion (patent technology). The controller can be adapted to the detection of different materials by various sensors. The system has the characteristics of low cost and long service life, and can be widely used in printing machinery, packaging machinery, etc.



▲ ZXW-400C 模拟纠偏导正架 (拼接台)
Web guide frame with splicing table



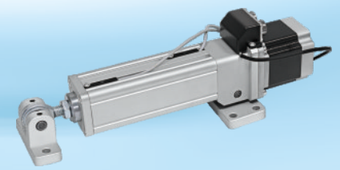
▲ ZXW-400G 模拟纠偏导正架
Web guide frame



▲ ZXG-300G 简易纠偏导正架
Simple web guide frame



▲ U型电眼支架
Detection sensor bracket



▲ TD3-55 模拟纠偏执行机构
Simulated correction actuator



▲ TD3-70 模拟纠偏执行机构
Simulated correction actuator

技术参数 Parameter:

型号 Model	TD3-55	TD3-70	TD3-90	TD3-110
电机规格 Motor Specification	55DTY 同步电机 55TDY Synchro Motor	70DTY 同步电机 70TDY Synchro Motor	90DTY 同步电机 90TDY Synchro Motor	110DTY 同步电机 110TDY Synchro Motor
推动方法 Pushing method	滚珠丝杆 Ball screw			
电机转速（转/分）Motor speed(R/M)	136转/分（R/M)	136转/分（R/M)	136转/分（R/M)	136转/分（R/M)
推力 Thrust	> 25kg	> 50kg	> 80kg	> 120kg
推动速度 Pushing speed	MAX 14.4mm/s	MAX 14.4mm/s	MAX 17mm/s	MAX 20.4mm/s
推动行程 Pushing itinerary	50mm	80mm	150mm	150mm
重量 Weight	3KG	5KG	6KG	9KG

Manual, taper tension control series

手动、锥度张力控制系列

ZXM-50 锥度张力控制器 ▶

Taper tension controller

ZXM-50 张力控制器是一款具有两种控制模式选择的锥度张力，两种控制方式分别为ZXM-32或者ZXM-50。ZXM-32型为脉冲型锥度控制，其功能和原理和本公司的ZXM-32张力控制器相同。ZXM-50型是一种智能计算卷径型高精度锥度控制，其原理是控制器同时对牵引基准轴和卷材轴进行速度检测，根据两轴的速度差和预先设置的牵引基准棍直径计算出当前卷材轴上材料的卷径，从而实现锥度张力控制。由于是采用速度计算出卷径，所以该模式不适合速度波动大或者间歇运行的机械传动结构。

ZXM-50 tension controller is a taper tension with two control modes, the two control modes are ZXM-32 or ZXM-50. ZXM-32 is a pulsecount taper control, Its function and principle are the same as our company's ZXM-32 tension controller. ZXM-50 is a kind of intelligent calculation roll diameter of high-precision taper control. The principle is that the controller detects the speed of the reference axle and the winding or unwinding axle at the same time, then calculates based on the difference speed between the two axles and the preset the diameter of reference axle. Controller relies on calculated diameter to achieve Taper tension control. Because the diameter is calculated by speed, so this mode is not suitable for mechanical transmission structures with large speed fluctuations or intermittent operation.







技术参数 Parameter:		
机型选择 Select model	ZXM-32 (Select model) **ZXM-32**	ZXM-50 (Select model) **ZXM-50**
工作电压 Supply Voltage	AC 180-240V/50-60HZ	
张力输出 Tension output	DC 0-3A(28V) 恒电流 / DC 0-5V(MAX 10MA)模拟量 DC 0-3A(28V) Permanent electric current / DC 0-5V Analog signal	
张力控制方式 Tension control mode	手动/脉冲式锥度张力控制 Manual / Pulse Taper Tension Control	手动/智能卷径计算型锥度张力控制 Manual / intelligent taper tension control for calculating Roll diamete
信号最高频率 Signal maximum frequency	MC1、MC2端口小于240HZ MC1, MC2 port is less than 240HZ	
双工位 Double station	具有双工位换轴输出接口 With dual station transposition output interface	
张力刹车 Tension brake	具有张力刹车输入接口 Input interface with tension brake	
通讯接口 communication interface	/	具有RS485通讯功能 RS485 communication function
安装尺寸 Installation size	127 × 72 × 93mm (宽Width × 高Height × 深Depth)	

ZXM-32 脉冲型锥度张力控制器 ▶

Taper tension controller

★ 磁粉离合器接口2A/3A可选
★ 具有0-5V模拟量接口
★ 价格更低，性能更稳定
★ 内部温度检测，风机自动控制
★ 安装尺寸 157 × 69 × 93mm

★ Magnetic powder clutch interface 2A/3A optional
★ Equipped with 0-5V analog interface
★ Lower price and more stable performance
★ Internal temperature detection, fan automatic control
★ Installation size 157 × 69 × 93mm



ZXM-60 手动张力控制器 ▶

Manual tension controller

ZXM-60控制器是一种简单的手动张力调节控制器，可选择设置刹车功能，具有性能可靠、安装方便等特点。
ZXM-60 controller is a simple manual tension adjustment controller, You can set the brake function, with reliable performance and convenient installation.

ZXM-2A/3A 手动张力控制器采用220V电源输入，输出可直接连接磁粉离合、制动器。内部采用开关电源板控制，其面板带有张力调节电位器和张力电流表。该控制器具有安装简单、使用方便的特点。
ZXM-2A / 3A manual tension controller uses 220V power input, output can be directly connected to magnetic powder clutch or brake. The internal use of switching power supply board control, its panel with tension regulating potentiometer and tension ammeter. The controller has the characteristics of simple installation and convenient use.



▲ **ZXM-2A/3A** 手动张力控制器
Manual tension controller



▲ **ZXMK-2A/3A** 张力调节盒
Tension adjustment box



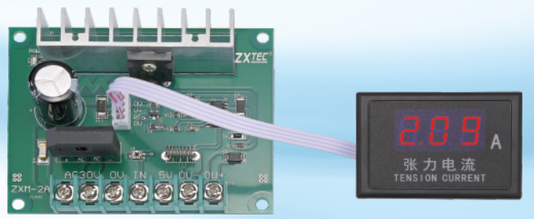
▲ **ZXM-60** 手动张力控制器
Manual tension controller

手动张力调节板

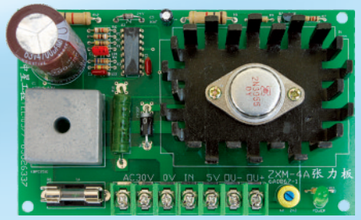
Manual tension adjustment plate

ZXM手动张力调节板主电路采用电流反馈型脉宽PWM控制输出，该电路具有电流输出稳定，功率管发热低等特点。由于电路设计时采用了单电源30V输入，故使张力板工作更稳定可靠。

The main circuit of ZXM manual tension regulating board adopts current feedback PWM control output. The circuit has the characteristics of stable current output and low power tube heating. Because the single power supply 30V input is used in the circuit design, it makes the tension plate work more stable and reliable.



▲ **ZXM-2A** 手动张力调节板
Manual tension adjustment plate



▲ **ZXM-4A** 手动张力调节板
Manual tension adjustment plate

技术参数 Parameter:					
型号 Model	**ZXM-60** 手动张力控制器 ZXM-60 Manual tension controller	**ZXM-2A/3A** 张力控制器 ZXM-2A/3A tension controller	**ZXMK-2A/3A** 张力调节盒 ZXMK-2A/3A Tension adjustment box	**ZXM-2A/4A** 张力板 ZXM-2A/4A Tension adjustment plate	
工作电压 Work voltage	DC 24V	AC 180-240V / 50-60HZ		AC 30V ± 15%	
输出电流 Output electric current	DC 0-2A/3A 恒电流 DC 0-2A/3A Pamanent electric current			DC 0-2A/4A 恒电流 DC 0-2A/4A Pamanent electric current	
电流波动 Electric current fluctuate	≤0.02A				
适配电位器 Adapt potentiometer	内置 Buld-In		4.7KΩ		
适配变压器 Adjustment transformer	/			220V / 30V(63W/100W)变压器(Transfomer)	
适配磁粉离合器 Suitable for powder clutch	1.5KG-20KG			1.5KG-40KG	
外型尺寸 Appearance size	63 × 90 × 47mm	127 × 72 × 93mm	150 × 83 × 55mm	75 × 95 × 40mm	85 × 132 × 45mm

Digital photoelectric correct control system

开关型光电纠偏控制系统

产品简介 Product description:

开关型光电纠偏控制器主要应用于要求纠偏速度不是很高的卷筒横向跑偏控制，它可对各种卷材：如卷筒纸薄膜、金属箔、无纺布等卷材进行纠偏工作。该系列纠偏控制器根据纠偏材料的不同可以选择跟边、跟线方式，并自由设定的单双电眼检测以满足各自材料的要求。由于采用数字型光电开关作为检测，结合纠偏执行机构采用永磁低速同步电机和滚珠丝杆作为驱动，从而使该纠偏具有安装简单、调试方便等特点。

Switch-type photoelectric correction controller is mainly used to control the lateral deviation of the reel which requires the correction speed is not very high. It can correct the deviation of various kinds of coils, such as reel paper film, metal foil, non-woven fabric and so on. According to the different rectifying materials, the series rectifying controller can choose the following and following line mode, and set the single and double electric eye freely to meet the requirements of each material. Because the digital photoelectric switch is used as the detection, the permanent magnet low speed synchronous motor and the ball wire rod are used as the drive in combination with the rectifying actuator, so that the rectifying deviation has the characteristics of simple installation and convenient debugging.

产品特点 Product characteristics:

- 内置智能单片机控制
- 纠偏响应速度可调整
- 可提供单电眼或双电眼纠偏
- 跟线和跟边可设定
- 提供外接控制接口
- 附加开关电源张力板 (GK-72)

- Built-in intelligent monolithic control
- Corrective response speed adjustable
- Can provide single electric eye or double electric eye deviation correction
- Follow-up and heel can be set
- External control interface
- Additional switching power tension board (GK-72)



▲ GK-12 光电纠偏控制器
Photoelectric correction controller



▲ GK-42 光电纠偏控制器
Photoelectric correction controller



▲ GK-71 自动光电纠偏控制器
Photoelectric edge guide controller



▲ GK-72 自动光电纠偏控制器
Photoelectric edge guide controller

ZXTEC®

光电纠偏控制系统配件

Photoelectric deviation correction system accessories



▲ 数字纠偏执行机构
Digital correction actuator



▲ MGU-200 超声波电眼
Ultrasonic sensor



▲ MGU-08C 槽型光电眼
Photoelectric sensor



▲ Z3N-TB22 辨色跟踪光电眼
Color discrimination tracking photoelectric eye



▲ KS-C2G 辨色跟踪光电眼
Color discrimination tracking photoelectric eye

技术参数 Parameter:

型号 Model	GK-12	GK-41	GK-71	GK-72
响应时间 Response time	可调/adjustable			
纠偏精度 Correct accuracy	± 0.2mm			
输出功率 Output power	50-500W			
张力输出 Tension output	/	/	/	0-3A
检测方式 Detect mode	检边，跟线 Follow with Edge or line			
控制方式 Control mode	单电眼，双电眼 Single or double photoelectric sensors			
外接开关 Outer switch	自动/手动开关，左转/右转开关 Auto/manual switch, turn right/left			
附件(选配)Attachment(applegarmy)	光电眼，同步电机，滚珠丝杆 Photoelectric eye, synchronous motor, screw roll			
外型尺寸 Appearance size	98 × 52 × 86mm (L × W × H)	96 × 96 × 100mm (L × W × H)	190 × 120 × 125mm (L × W × H)	190 × 120 × 125mm (L × W × H)
工作电压 Work voltage	AC220V ± 15% 50Hz			

Length, speed, quantity controller series

长度 / 速度 / 数量控制器系列

ZX-288A是一款大屏幕双面线速度检测和显示的仪表，该显示表可采用霍尔开关或计米轮作为输入信号，也可以采用MODBUS RTU通信将数据直接显示到仪表。显示表具有多种安装方式，可以立式或者悬挂安装。电源可采用直流12V-30V输入。

ZX-288A is A large screen double-sided line speed detection and display instrument, the display table can use hall switch or meter wheel as the input signal, or can use MODBUS RTU communication to display the data directly to the instrument. The display table has a variety of installation methods, which can be vertical or hanging installation. The power supply can be DC 12V-30V input.

ZX-288是一款大屏幕线速度检测和显示的仪表，该显示表可采用霍尔开关或计米轮作为输入信号，也可以采用MODBUS RTU通信将数据直接显示到仪表。显示表具有多种安装方式，可以立式、悬挂安装或者嵌入面板式安装。电源可采用交流220V输入或者直流12V输入。

ZX-288 is a large screen line speed detection and display instrument, the display table can use Hall switch or meter wheel as the input signal, or can use MODBUS RTU communication to display the data directly to the instrument. The display table has a variety of installation methods, can be vertical, hanging installation or embedded panel installation. The power supply can use AC 220V input or DC 12V input.



▲ **ZX-288A** 双面线速度表
Double-sided linear speedometer



▲ **ZX-288** 大屏幕线速度表
Large screen linear speed meter

技术参数 Parameter:

型号 Model	**ZX-288** 大屏幕线速度表 Large screen linear speed meter	**ZX-288A** 双面线速度表 Double-sided linear speedometer
测量和显示范围Measurement and display range	0-999m/min	
输入信号频率 Input signal frequency	< 300HZ	
通讯接口Communication interface	RS485 (Modbus RTU)	
安装方式 Installation mode	立式/悬挂式/嵌入式 (Vertical / suspended / embedded)	立式/悬挂式 (Vertical / suspended)
检测辊周长设定 Measuring roll circumference setting	0-999mm	
电源输入 power input	AC 100-220V / DC 12V	DC 12-30V
外形尺寸 Appearence size	325 × 154mm	335 × 160 × 60mm

ZX-668 长度与数量控制器 ▶

Length and quantity controller

- 主控部分采用单片机控制
- 具有体积小巧安装简单
- 具有停电数据储存功能
- 可预置长度数据控制继电器输出
- 可预置长度提前循环报警
- 能精确测量线速度或转速
  (ZX-338、ZX-538, ZX-738)
- 可同时显示长度、数量、线速度(ZX-668)
- 可设置技术脉冲频率

- The main control part is controlled by single chip microcomputer.
- It has a small size and simple installation.
- With power outage data storage function
- Preset length or quantity data control relay output
- Preset length or number of advance cycle alarms
- Able to accurately measure linear speed or speed
  (ZX-338, ZX-538, ZX-738)
- Simultaneous display of length, quantity,
  and linear velocity (ZX-668)
- Technical pulse frequency can be set



▲ **ZX-668** 长度与数量控制器
Length and quantity controller



▲ **ZX-158A** 数量控制器
Quantity controller



▲ **ZX-168** 长度控制器
Length controller



▲ **ZX-188** 线速度控制器
Line speed controller

ZX系列长度、数量和速度控制器

ZX series length, quantity and speed controller

ZX系列长度、数量和速度控制器采用LED数码或液晶显示，输入信号根据设备需要可选配普通开关、接近开关、光电开关、霍尔开关等。产品主要应用于卷筒材料长度和线速度的测量与速度。适用于印刷、复合、分切、绕线机等需要速度检测和长度、数量测量与控制的设备上。

ZX series length, quantity and speed controller using LED digital or LCD, input signal according to the needs of the equipment can be selected with ordinary switches, proximity switches, photoelectric switches, Hall switches and so on. The product is mainly used in the measurement and speed of reel material length and linear velocity. Suitable for printing, composite, cutting, winding machine and other equipment that need speed detection and length, quantity measurement and control.



▲ 计米轮
Meter wheel



▲ 霍尔接近开关
Hall proximity switch



ZX-338A 长度与速度控制器
Length and speed controller



ZX-758 数量控制器
Quantity controller



ZX-738 长度与速度控制器
Length and speed controller



ZX-558 数量控制器
Quantity controller



ZX-538 长度与速度控制器
Length and speed controller

技术参数 Parameter:

型号 Model	**ZX-668**	**ZX-338A**	**ZX-188**	**ZX-168**	**ZX-158A**
长度和速度 Length and speed	0-999999M / 0-999M/Min		0-999999M/Min	0-999999M/Min	/
数 量 Quantity	0-999999 Pcs	/	/		0-999999 Pcs
输入接口 Input Interface	四路12V/NPN信号输入 Four channels 12V/NPN	三路12V/NPN信号输入 Three channels 12V/NPN	两路12V/NPN信号输入 / Two channels 12V/NPN		
输出接口 Output Interface	两组预置继电器输出 / Two sets of preset relay		一组预置继电器输出 / One set of preset relay		
报警输出 Alarm output	内置 Buld-In	12V/NPN报警输出 12V/NPN Alarm output			
停电数据保存 Power failure preservation	永久数据保存 Permanent data preservation				
工作电压 Supply voltage	AC 180-240V/50-60HZ				
外形尺寸 Appearence size	96 × 52 × 115mm (宽Width × 高Height × 深Depth)	96 × 96 × 86mm (宽Width × 高Height × 深Depth)	96 × 48 × 115mm (宽Width × 高Height × 深Depth)		

技术参数 Parameter:

型号 Model	**ZX-738**	**ZX-758**	**ZX-538**	**ZX-558**
长度和速度 Length and speed	0-999999M / 0-999M/Min	/	0-999999M / 0-999M/Min	/
数 量 Quantity	/	0-999999 Pcs	/	0-999999 Pcs
输入接口 Input Interface	三路12V/NPN信号输入 / Three channels 12V/NPN		两路12V/NPN信号输入 / Two channels 12V/NPN	
输出接口 Output Interface	两组预置继电器输出 / Two sets of preset relay		一组预置继电器输出 / One set of preset relay	
报警输出 Alarm output	12V/NPN报警输出 12V/NPN Alarm output			
停电数据保存 Power failure preservation	永久数据保存 Permanent data preservation			
工作电压 Supply voltage	AC 100-240V/50-60HZ			
外形尺寸 Appearence size	72 × 72 × 68mm (宽Width × 高Height × 深Depth)		48 × 48 × 94mm (宽Width × 高Height × 深Depth)	

Development series of computer control system

电脑控制定做开发系列

ZXP-S16 可编程控制器 ▶
Programmable controller

本公司自主开发的ZXP-S16可编程控制器可以与市场上大部分触摸屏匹配，根据不同功能的机械设备定制程序。该产品采用32位ARM芯片，具有性价比高，而且比市场上的PLC程序更难解密，特别适用于一些需要技术保密的机械设备。只要用户有一定的产量，本公司将免费为其定制程序。

The ZXP-S16 programmable controller developed by our company can match most touch screens on the market and customize the program according to the mechanical equipment with different functions. The product adopts 23-bit ARM chip, which has high performance-price ratio and is more difficult to decrypt than the PLC program on the market. It is especially suitable for some mechanical equipment that need technical confidentiality. As long as the user has a certain amount of production, the company will customize the program free of charge.



现有程序应用于以下产品： The existing procedures apply to the following products:

- BFQ高速分切机控制 / BFQ High Speed Cutting Machine Control
- ZXS同步张力控制系统 / ZXS synchronous tension Control system

BFQ-1G 分切机电脑控制系统 ▶
Cutting Machine Computer Control System



7寸或10寸
7-inch or 10-inch

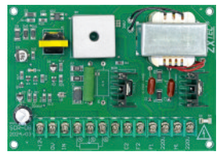
一体化分切机控制系统 ▶
Integrated cutting machine control system

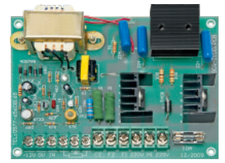


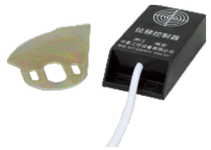
技术参数 Parameter:	
型号 Model	一体化触摸屏分切机控制系统 Integrated touch screen slitting machine control system
工作电源 Work power	AC-220V/50Hz
输入信号 Input signal	9路开关量信号输入 9-channel switch signal input
输出方式 Output mode	2路可控硅(220V)，1路继电器，5路开关量输出(12V) 2 thyristors (220V), 1 relay, 5 switch outputs (12V)
模拟量输出 analog output	1路模拟量(0-5V或10V可设置) 1 analog input (0-5V or 10V adjustable)
安装方式 Installing mode	嵌入式(面板开孔尺寸:136×89mm) Embedded (Panel opening size: 136× 89mm)

定做控制系统和散件控制板
Custom control system and bulk control board

ZXTEC®


▲SCR-08 直流电机调速板
DC motor speed control board


▲SCR-1100 直流电机调速板
DC motor speed board

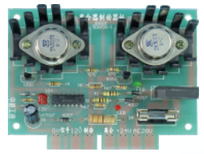

▲ 位移控制器(三线)
Displacement controller


▲ 智能位移控制器(四线)
Intelligent displacement controller


▲ZX-UTC 超声波锥度张力控制器
Ultrasonic tapered tension controller

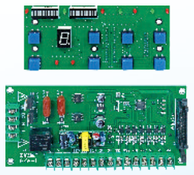

▲26A 力矩电机控制板
Torque motor control board

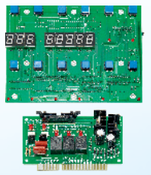

▲50A 力矩电机控制板
Torque motor control board

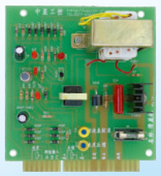

▲离合器制动板
Clutch & brake control board


▲BFQ-1G 分切机电脑控制系统
Cutting Machine Computer Control System


▲ZX-368 长度与数量控制套件
Length and quantity control boards


▲GK6 纠偏控制套件
EPC control boards


▲分切机电脑板套件
Cutting machine computer control suite


▲ 滑差电机调速板
Slip motor speed regulating board



▲GK-10 模拟纠偏控制器
Analog EPC controller



▲GK-91 模拟纠偏控制器
Analog EPC controller


▲MGU-08 模拟纠偏光电眼
Analog sensor


▲MGU-08L 模拟纠偏光电眼
Analog sensor


▲SZK-B 手动张力控制器
Manual tension controller


▲ZX-338 长度与速度控制器
Length and speed controller


▲GK-41 光电纠偏控制器
Photoelectric EPC controller


▲GK-62 光电纠偏控制器
Photoelectric EPC controller