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Version

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## **CMRD-550A**

Fully-Servo Intelligent Handbag-Threading Machine

全伺服手提袋智能穿绳机



## 目录

### Contents

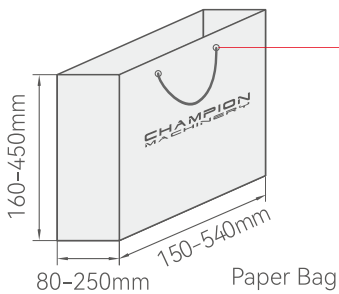
机器名称图片 Machine Name Image	3
机器说明 Machine Description	3
机器特点 Machine Features	4
工艺流程图 Process Flowchart	4
原材料 Raw Material	4
绳子样式 Hand Rope Style	5
丝带样式 Ribbon Style	6
支持各种袋底样式 Support Various Bag Bottom Styles	7
颠覆传统，助力更多优势 Disrupting Tradition Fueling More Advantage	7
传统设备升级对比 Comparison Ofconventional Equipment Upgrades	8
主要技术参数 TechnicalData	9
核心配件 Core Accessories	9
设备占地规划 Machine Floor Plan	10



# CMRD-550A

## Fully-Servo Intelligent Handbag-Threading Machine

### 全伺服手提袋智能穿绳机



- Drawstring hole spacing  
穿绳孔位间距  
65-200mm
- Hole diameter  
孔位内径  
4-6mm



#### 绳材范围 Rope Material

三股绳, 涤纶, 绸缎, 棉绳, 丝带, 低弹力绳, 纸绳等(塑片可制作(鸭舌扣, 马蹄口)的材质都可覆盖)

Cotton, Three-stranded rope, Ribbonrope, wrapped with plastic card heads



#### 机器说明 Machine Description

该设备采用全伺服电机驱动的手提袋穿绳机, 是自动化程度较高的专用设备, 用于为各类手提袋, 自动穿入提绳。配合智能控制系统, 实现高精度、高效率的穿绳作业, 适用于大批量生产场景。全自动手提袋穿绳机可实现自动送袋、不间断加袋、冲孔、包塑头、绕线、计数、自动报警等功能。可调节袋的尺寸、高度和孔距。直接节省成本, 提高效率。

This fully automatic bag stringing machine features automatic bag feeding, continuous bag loading, punching, plastic wrapping, winding, counting, and automatic alarms. Bag size, height, and hole spacing are adjustable. The hole size accommodates popular three-strand ropes, elastic cords, and webbing. Adjustable rope length directly reduces costs and improves efficiency. This machine combines traditional packaging with stringing technology and features an automatic counting function for even more convenient packaging.



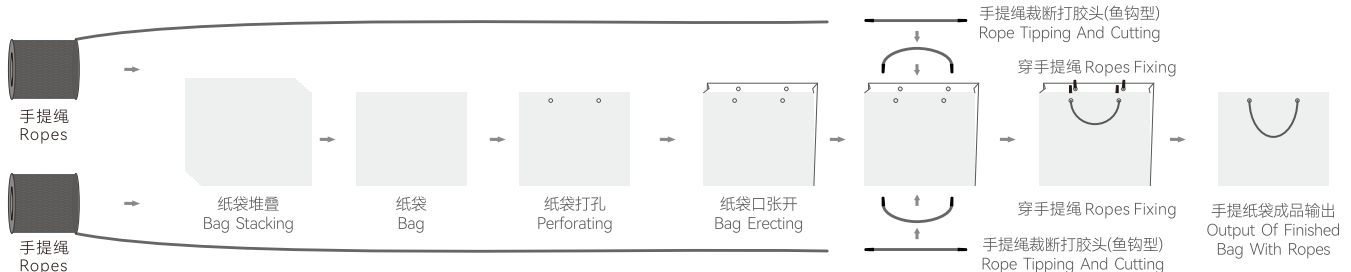
## 机器特点 Machine Features

- 1.高精度控制:** 采用伺服电机驱动, 定位精度可达 $\pm 0.1\text{mm}$ , 确保穿绳位置准确无误。
- 2.响应速度快:** 伺服系统动态响应灵敏, 适应高速生产 (如每分钟60-100个袋子)。
- 3.节能高效:** 相比传统气动或机械驱动, 能耗降低30%以上。
- 4.自动识别定位:** 通过视觉系统或传感器自动检测袋孔位置, 适应不同袋型。
- 5.参数记忆功能:** 可存储多种产品规格参数, 切换生产时一键调用, 减少调试时间。
- 6.故障自诊断:** 实时监测设备状态, 异常时自动报警并提示解决方案 (如断绳、卡袋等)
- 7.连续作业能力:** 配备自动送料、穿绳、出料一体化流程, 减少人工干预。
- 8.人机协作:** 触摸屏界面友好, 支持产量统计、效率分析等数据化管理。
- 9.低噪音运行:** 伺服系统噪音低于70dB, 优于传统机械式设备。
- 10.无油污污染:** 全电动驱动避免气动系统的油雾污染, 符合食品包装卫生要求。

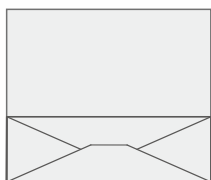
- 1.High-Precision Control:** Driven by a servo motor, positioning accuracy reaches  $\pm 0.1\text{mm}$ , ensuring precise string threading.
- 2.Fast Response:** The servo system's dynamic response is sensitive, adaptable to high-speed production (e.g., 60-100 bags per minute).
- 3.Energy-Efficient:** Energy consumption is reduced by over 30% compared to traditional pneumatic or mechanical drives.
- 4.Automatic Identification and Positioning:** Automatically detects bag hole position using a vision system or sensor, adapting to different bag shapes.
- 5.Parameter Memory:** Stores parameters for various product specifications and recalls them with a single click when switching production lines, reducing commissioning time.
- 6.Fault Self-Diagnosis:** Real-time monitoring of equipment status, automatically alerting and providing solutions when anomalies occur (e.g., string breakage, bag jams, etc.).
- 7.Continuous Operation Capability:** Equipped with an integrated automatic feeding, string threading, and discharge process, reducing manual intervention.
- 8.Human-Machine Collaboration:** The user-friendly touchscreen interface supports data-driven management, including production statistics and efficiency analysis.
- 9.Low-Noise Operation:** The servo system operates at less than 70dB,
- 10.Outperforming traditional mechanical equipment. No oil pollution:** The fully electric drive avoids oil mist pollution from the pneumatic system and meets the hygiene requirements of food packaging.



## 工艺流程图 Process Flowchart



## 原材料 Raw Material



纸袋  
Paper Bag



绳子包塑料卡头  
Tipped Rope



三股绳  
Twisted Rope



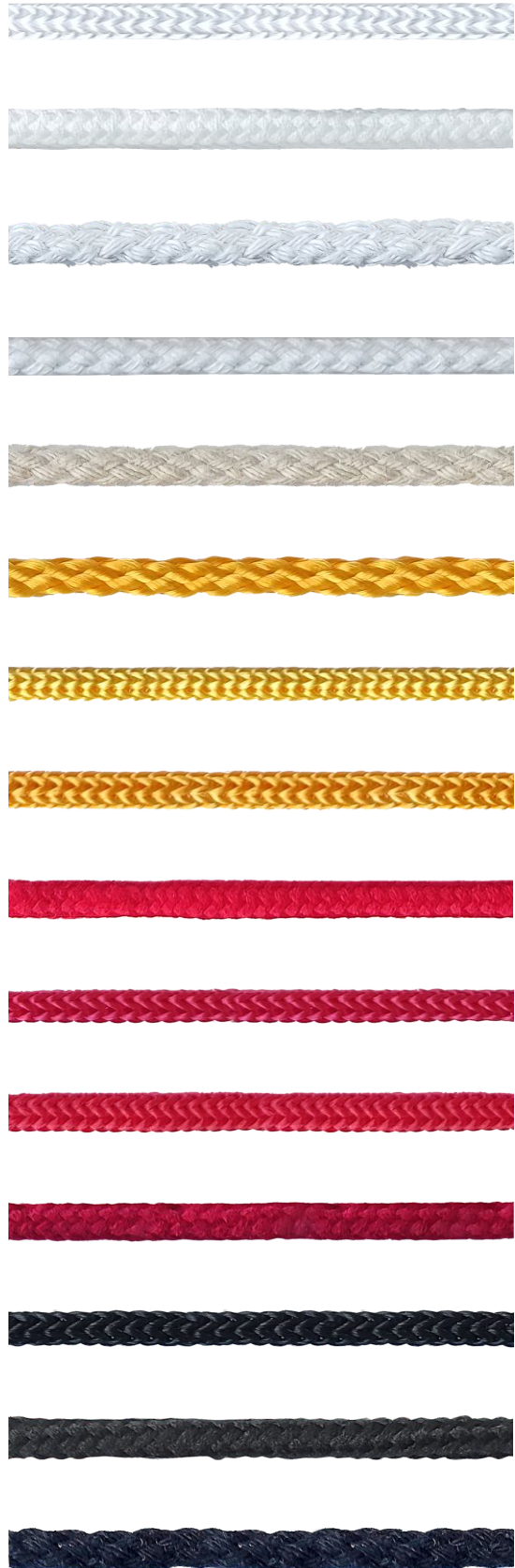
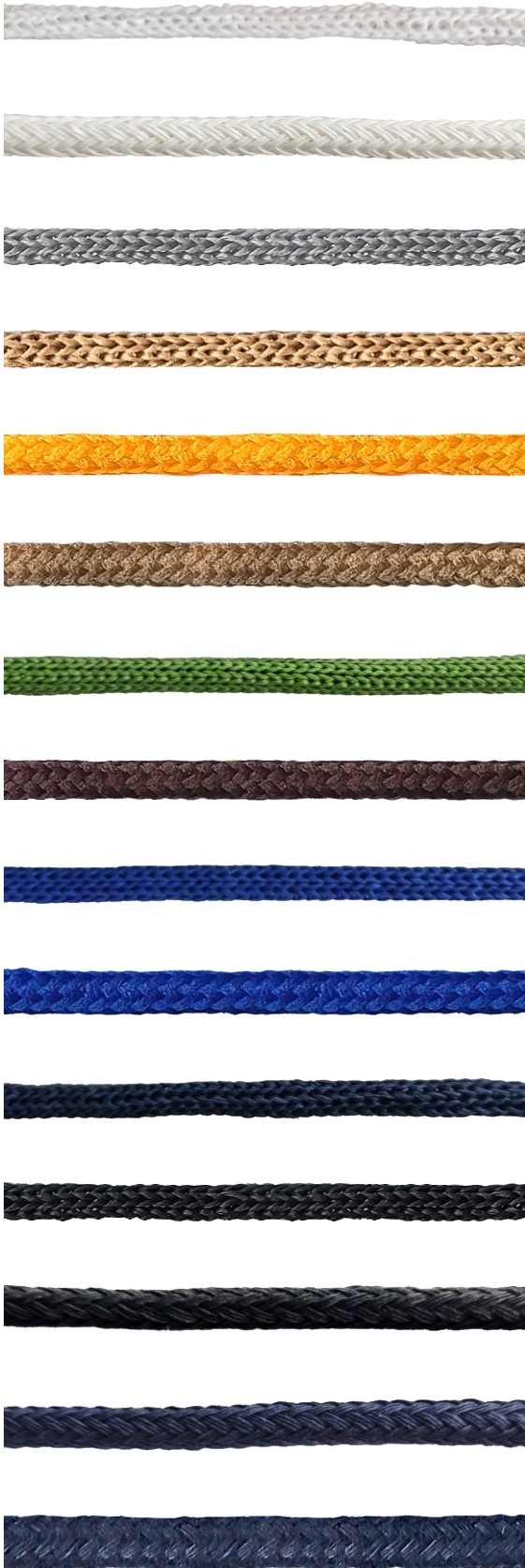
丝带  
Flat Belt



丙酮水  
Acetone

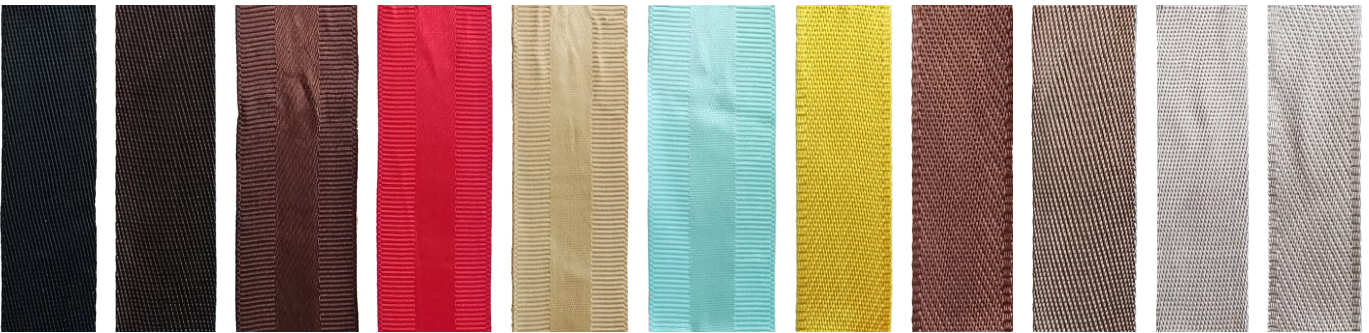


绳子样式 Hand Rope Style





丝带样式 Ribbon Style





支持各种袋底样式 Support Various Bag Bottom Styles



颠覆传统，助力更多优势 Disrupting Tradition Fueling More Advantage



**智能参数输入系统**

“核心参数一键设定”:袋高/袋宽/孔距/打孔高度/绳长/鸭舌扣长度等数据,通过10.1寸工业级触控屏直接输入,系统自动计算最优路径,告别传统机械反复调试,换型效率提升90%。

**Intelligent Parameter Input System**

“Core parameters set by one key”: bag height/bagwidth/hole spacing/perforation height/rope length/ducktongue buckle length and other data, through the 10.1-inch industrial-grade touch screen directly input, the system automatically calculates the optimal path, goodbye to the traditional mechanical repeated debugging, the efficiency of the changeover increased by 90%.

**工艺数据库(记忆存储功能)**

历史生产数据(袋型参数、穿绳长度)自动存档,支持命名快速调用,相同订单再次生产时‘秒级启动’,杜绝人为操作误差。

**Process Database(memory Storage function)**

Historical production data (bag parameters, stringing length) are automatically archived, support for naming and quick recall, and 'start in seconds' when the same order is produced again, eliminating human error in operation.



传统设备升级对比 Comparison Of conventional Equipment Upgrades

Function 功能	Conventional stringing machines 传统穿绳机	Intelligent Rope Threading Machine 智能穿绳机
Parameter setting method 参数设置方式	Manual adjustment of mechanical parts+ trial and error 手动调节机械部件+试错	Panel digital input +auto calibration 面板数字输入+自动校准
Historical process reuse 历史工艺复用	Historical process reuse 历史工艺复用	Database one-key call 数据库一键调用
Multi-specification compatibility 多规格兼容性	Multi-specification compatibility 多规格兼容性	Support bag width 150-550mm, rope length 270-580mm 支持袋宽150-540mm、绳长270-580mm

VS

客户每日10小时生产需切换5种袋型，传统设备调试耗时占生产时长40%：**启用智能穿绳机后，通过参数预存功能**

The customer needs to switch 5 types of bags for 10 hours of production per day, and the debugging time of traditional equipment accounts for 40% of the production time; After Intelligent Stringing Machine is enabled, through the parameter pre-storage function,

4⌘

Increased net production time  
by 4 hours per day  
每日净生产时间**增加4小时**

通过将复杂的机械调试转化为“输入数字→自动执行”的极简操作并赋予数据存储与复用的管理价值，可直观传达“智能=降本+增效+零门槛”的核心竞争力。

50,000

Annual labor cost  
savings of over 50,000 RMB  
年节省人力成本**超5万元**

By transforming complex mechanical commissioning into the minimalist operation of "inputting numbers-automatic execution and giving data storage and reuse management value, the core competitiveness of "Intelligence = Cost Reduction, Efficiency Increase, Zero Threshold" can be conveyed intuitively. "Intelligence= Cost Reduction + Efficiency + Zero Threshold" is the core competitiveness.

3,000,000

Increase annual production capacity by  
more than 3 million dollars per machine  
每台机年增产能**超300万**



## 主要技术参数 TechnicalData

纸袋尺寸 Sheet Paper Size		
袋面最小尺寸	Min. bag Size	150x160x(80-100)mm
袋面最大尺寸	Max. bag Size	540x450x(80-250)mm
纸张克重 Bag tickness		
纸张克重	Bag tickness	140-300GSM
孔位 Hole position		
穿绳孔位间距	Drawsring hole spacing	65-200mm
孔位内径	Hole diameter	4-6mm
运行 Running		
不带鸡眼速度	Speed without pumping eyes	50pcs/min
安装要求 Installation		
功率	Power	8.2kw
尺寸和重量 Dimensions and weight		
设备尺寸	Size	3400x2000x2200mm
重量	Weight	2.2T
绳长String length		
绳长	String length	Min.200mm plus hole spacing Total length 270-580mm, excluding rope tension (最短200mm+孔距)总长度270-580mm(含绳子张力)



## 核心配件 Core Accessories

Item Name	Brand	Origin
servo motor	DELTA	Taiwan
Controller	DELTA	Taiwan
Control screen	Kunlun	China
Stepper driver	Yankong	Taiwan
Relay head	Honeywell	USA
Relay base	Honeywell	USA
Short piece	Weidmiller	Germany
Switching Mode Power	MingWei	Taiwan
photoelectricity	Omron	China
Cylinder	Airtac	Taiwan
Bearing	NSK/HRB	Japan/China
Synchronous belt	Jagua	China



设备占地规划 Machine Floor Plan

