

# HBQ-902 多线型加工中心

## 产品简介

HBQ-902 多线型加工中心可完成最多 48 根线材的下线、剥皮、穿栓、压接、端子插入护套和端子压接视觉检测等功能，为线束生产企业节省大量人力，有效减少在制品数量，提高企业的市场反应灵敏度和产品品质。该设备通过激光扫描配合伺服电机测量端子的实时角度和位置，引导设备将端子准确插入；同时，通过软件内部计算偏差完成端子位置补偿，能更好的适应多种护套同时插端的情况，对插端种类多，复杂的插端工艺有更好的兼容性。该型设备采用模组化设计思路，可提供定制化服务，根据客户的实际生产状况灵活调整工位布局，具有较好的市场适用性。

## 产品特征

### ● 柔性扩展

采用工控机控制，方便接入 MES，进行各种功能扩展；

### ● 高度智能

只需人工上线材，上护套，其余加工全部由设备自动完成；

### ● 操作简捷

形象直观的参数设置界面，可方便灵活的进行工艺参数设置；

### ● 控制精准

剥皮、插端、线材转运均采用伺服马达精确控制位移精度；

### ● 在线检测

装有精密测力装置，可动态显示插入力和拔出力的大小并进行数据保存；

● 品质稳定

装有压力管理装置和不良品管理装置，防止不良品流入下一工位。

产品参数

型号	HBQ-902
线径范围	0.22-2.5mm <sup>2</sup> （标配）0.35-6.0mm <sup>2</sup> （可选）
加工线长	A:不需储线双端插护套： 240-5000mm
	B:需储线双端插护套： 900-5000mm
	C:双端加工单端插护套： 240-2000mm
	D:单端加工单端插护套： 80-2000mm
剥皮长度	0.1-25mm
送线速度	3m/s(max)
穿栓种类	4（可选）
压机种类	8（可选）
送线精度	L < 500mm：±1mm；L ≥ 500mm：±（1+0.2%*L）mm
插端效率	1.4-2.4S/孔（不同工艺，效率不同）
气源	5-6Bar
功率	10kW
电源	380V/50Hz

加工线束根数	48 (max)
外形尺寸	L7500*W2000*H2100 (10 工位)
重量	4000kg

## HBQ-902 Harness Processing Center

### INTRODUCTION

HBQ-902 Harness Processing Center can perform functions such as wire cutting, stripping, seal loading, crimping, inserting terminals into the connector, and visual inspection of terminal crimping for up to 48 wires. This saves a large amount of labor for wire harness manufacturing enterprises, effectively reduces the number of work-in-process products, and improves the enterprises' market response sensitivity and product quality. This machine measures the real-time angle and position of the terminal through laser scanning in cooperation with a servo motor, guiding the machine to insert the terminal accurately. At the same time, it calculates the deviation within the software to complete the terminal position compensation, which can better adapt to the situation of inserting terminals into multiple terminals simultaneously. It has better compatibility with a variety of terminal-inserting types and complex terminal-inserting processes. This type of machine adopts a modular design concept and can provide customized services. It can flexibly adjust the workstation layout according to the actual production situation of customers, and has good market adaptability.

### FEATURES

#### ●Flexible expansion

Using industrial computer control, it is convenient to connect to MES, and expand various functions;

●**High intelligence**All the process could complete by the machine except loading the wires, connectors and terminals;

●**Simple operation**Visual and intuitive parameter setting interface, convenient and flexible for process parameter

setting; ●**Accurate control**The stripping, inserting end, and wire transfer all adopt servo motors to precisely control the displacement accuracy;

●**Online detection**Equipped with precision force measuring device, which can dynamically display the size of insertion force and withdrawal force and save data; ●**Stable quality**Equipped with pressure management device and defective product management device to prevent defective products from flowing into the next station.

### SPECIFICATIONS

Type	HBQ-902
Wire Cross Sections	0.22-2.5mm <sup>2</sup> (Standard) 0.35-6.0mm <sup>2</sup> (Optional)
Wire Number	48 (max)
Stripping Length	0.1-25mm
Feeding Speed	3m/s (max)
Cutting Length	A:Double-end connector insertion without wire storage 240~5000mm
	B:Double-end connector insertion with wire storage 900~5000mm
	C:Double-end processing with single - end connector insertion 240~2000mm
	D:Single-end processing with single - end connector insertion 80~2000mm
Seal Type	4 (Optional)
Crimping Station	8 (Optional)
Feeding Accuracy	$L < 500\text{mm}$ : $\pm 1\text{mm}$ ; $L \geq 500\text{mm}$ : $\pm (1+0.2\%*L) \text{ mm}$
Power Supply	AC380V/50HZ
Air Supply	5-6Bar
Power	10kW
Overall Dimensions	L7500*W2000*H2100 (Optional)
Weight	4000kg