HBQ-G420 压力工作站

HBQ-G420 Crimping Press Workstation

◆产品介绍 Introduction

　　HBQ-G420 是一种半自动压力装配设备，主要用于**电器盒保险丝压入，高压线束充电口连接、储能连接线对接口等**其他铆接产品，产品压力数据可实时上传 MES 系统，生产日志可查询，以供追溯。

　　HBQ-G420 is a semi-automatic pressure assembly equipment, mainly used for pressing electrical box fuse, high voltage wire harness charging port, energy storage connection wire interface and other riveting products.

　　product pressure data can be uploaded to the MES system in real time, production logs can be queried for traceability.

　　设备具备多种应用场景，压力行程可自定义设置，压力配方可根据实际需求 DIY 调整，设备具备视觉检测功能可根据实际产品设置视觉配方，具备双工位加工功能，缩短了产品加工 CT。

　　The equipment can be applied in diverse circumstances, the press stroke and　pressure data can be adjusted according to actual needs.

　　With visual detection function, the visual articles can be set according to the actual product, and the dual processing station can shorten the product

processing cycle time.

应用扫码读取,产品可选：无条码、固定条码、无固定条码、有规则系列条码，四种方式。广泛适各系列标识产品，上位机程序软件为海昌智能自己开发，可极大的满足客户定制化需求。

With application of bar code scanning, the following modes can work: no bar code, fixed bar code, no fixed bar code, regular series bar code.

It is widely suitable for various products, and the upper computer program software owned and developed by Hacint, which can greatly meet customers' requirements.

整机主要由机架，三轴伺服模组，精密压力传感器，上位机，PLC，显示器组件，双工位工装夹具，夹具可根据客户产品外形定制设计，设备具备防错防呆功能，设定的产品未作业完或压力失效，设备则自动锁住产品并报警，需授权人员方可解锁，可有效避免不良品流入下一工序。

The whole machine is mainly composed of rack, three-axis servo module, precision pressure sensor, upper computer, PLC, display component, double-station fixture.

The fixtures can be customized according to product shape, With anti-error and anti-stay function, if the set product processing not finished or the pressure failure, the equipment will automatically hold the product and alarm, only authorized personnel can unlock it. It effectively prevents bad products from flowing into the next process.

◆产品特点

○智能化防错 Intelligent Error Proof

①视觉检测：对产品执行视觉检测，可识别字符，颜色，形状，黑白有无等；

Visual inspection: Perform visual inspection to identify characters, colors, shapes, black or white, and so on;

②压力报警：未达到压力标准范围，设备报警，并自锁执行返修程序；

Pressure Alarm: if the pressure standard can't reach, the equipment will alarm and self-lock to the repair procedure;

③失效报警：根据产品要求,可判定压力合格以外的其他失效模式，如：保险丝针弯曲。

Failure alarm: According to product requirements, qualified pressure and other failure modes can be identified, such as: fuse pin bending.

④扫码识别：使用扫码枪快速识别产品，绑定扭力值；

Scanning Code: the barcode scanner quickly identify the product and fix the torque value;

⑤工位切换：采用双工位切换，有效缩短加工 CT；

Station Switching: with double station switching, effectively shorten the processing cycle time;

○便捷式操作 **Convenient Operation**

①配备物料储备区，方便物料的存放与取用；Equipped with material reserve area to facilitate the storage and access of materials;

②目视化软件管理，问题原因快速识别；Visual software management, quickly identify the problem causes;

○操作安全性 **Safety**

设备具备安全光栅，压力保护上限识别功能，安全门具备传感器识别,最大化保证人员安全；

With safety grating, maximum pressure protection identification and the sensor identification of the safety door to well guarantee the safety;

◆产品参数 Specifications

操作系统 Software	PC WIN10,　　HACINT 控制软件　control software
压力范围 Press	5-500N（可根据产品实际需求，变更核心部件） Core components can be changed according to actual products
压力精度 Press Accuracy	±5%
效率 Efficiency	单点 1-2S（根据产品不同有变化） Single 1-2s (depend on products)
噪声 Noise	<60 db (A)
扫码功能 Code Scanning Function	有　　Standard
坐标显示 Axes Display	有　　Standard
视觉检测部件 Visual Inspection Unit	德国巴斯勒　　Germany Bassler
接口类型 Interface	USB，　RS232
功率 Power	2500W
电源 Power Supply	220V/50Hz
气源 Air Supply	0.5Mpa
重量 Weight	约 800kg
外观尺寸（长*宽*高） Dimension(L*W*H)	1800x1000x2200,(工作台高度 Worktable height≈880mm)