

HBQ-G401B 力矩工作台（第三代）

产品简介

HBQ-G401B 是一台半自动打螺丝+视觉检测设备（第三代），主要用于汽车保险盒或新能源车充电枪螺母拧紧，螺母拧紧扭矩数值可实时上传 MES 系统，以供追溯，设备具备多颗螺丝拧紧防错，螺丝拧紧顺序防错，多颗螺丝拧紧扭矩自定义设置，视觉配方自定义，开机扭力点检，扫码读取产品，电批拧紧扭力超高/超低报警，智能返修（可根据保险丝与螺母绑定）,生产日志可查询，核心部分，智能电批使用日本进口 CORETEC(可客户要求定制)，上位机程序软件为海昌智能自己开发，可满足客户定制化需求。

产品特征

● 智能防错

开机及点检：确保电批输出扭力值处于高精度状态；

锁付报警：未达到拧紧值，设备报警，并自锁；

位置报警：编码器控制螺丝拧紧坐标，对应坐标方可实施螺丝拧紧；

扫码识别：使用扫码枪快速识别产品，绑定扭力值；

视觉检测：使用工业相机对产品拍照，可识别文字/字母，形状，颜色，黑白等功能；

激光引导：使用激光红外引导坐标加工位置（选配）；

返修功能：可根据视觉检测结果，实现智能返修；

记录保存：整机记录与 MES 实现通讯保存；

● 便捷式操作

可配备有帆布兜，方便大线束，多线束储存；

目视化软件管理，问题原因快速识别；

● 操作安全性

独立启动按钮，程序防呆，放完产品后，再启动，防止误操作；

产品参数

型号	HBQ-G401B
扭力范围	5-22N • m
扭力精度	±5%
电批转速	540rpm/min
接口类型	USB，RS232
功率	1500W
电源	220V/50Hz
气源	0.5Mpa-0.7Mpa
外形尺寸	L1010xW910xH1956（工作台高度≈840mm）
重量	约 400kg

## HBQ-G401B Torque Workstation(The 3rd generation)

### INTRODUCTION

HBQ-G401B is a semi-automatic screw driving + visual inspection machine (the third generation), mainly used for tightening the nuts of automotive fuse boxes or charging guns of new energy vehicles. The torque values of nut tightening can be uploaded to the MES system in real time for traceability. The machine has functions such as error prevention for tightening multiple screws, error prevention for the screw tightening sequence, custom setting of the tightening torque for multiple screws, custom visual recipes, torque inspection during startup, product reading by scanning the code, high/low torque alarm for the electric screwdriver during tightening, intelligent rework (which can be bound according to the fuse and the nut), and the production log can be queried. The core part, the intelligent electric screwdriver, uses CORETEC imported from Japan (which can be customized according to customer requirements). The application software of the upper computer is independently developed by Haichang Intelligence, which can meet the customized needs of customers.

### FEATURES

- Intelligent error-proofing

- 1.Startup and inspection: Ensure that the output torque value of the electric screwdriver is in a high-precision state.
- 2.Locking alarm: If the tightening value is not reached, the equipment will alarm and self-lock.
- 3.Position alarm: The encoder controls the screw-tightening coordinates, and screws can only be tightened at the corresponding coordinates.
- 4.Code scanning recognition: Use a barcode scanner to quickly identify products and bind torque values.
- 5.Visual inspection: Use an industrial camera to take pictures of products, which can recognize functions such as text/letters, shapes, colors, and black-and-white.
- 6.Laser guidance: Use laser infrared to guide the processing position of coordinates (optional).
- 7.Rework function: Intelligent rework can be achieved based on the results of visual inspection.
- 8.Record storage: The whole-machine records are communicated and stored with the MES system.

- Convenient operation

- 1.It can be equipped with a canvas bag, which is convenient for storing large and multiple wire harnesses.
- 2.Visualized software management enables quick identification of problem causes.

- Operational safety

It has an independent start button. The program is designed to prevent mistakes. It can only be started after the product is placed to prevent misoperation.

### SPECIFICATIONS

Type	HBQ-G401B	
Torque Range	5-22N • m	
Torque Accuracy	±5%	
Electric Batch Speed	540rpm/min	
Interface Type	USB,RS232	
Power	1500W	
Power Supply	220v/50Hz	
Air Supply	0.5Mpa-0.7Mpa	
Weight	400Kg	
Overall Dimension	L1010xW910xH1956,worktable height≈840mm	