

# HBQ-G206 光伏线束自动线

## 产品简介

HBQ-G206 是全自动光伏裁铆拧绕线扎带加工设备，功能包括裁切剥皮、端子铆接、连接器螺帽拧紧、绕线打扎带等，整机布局采用模块化设计，效率高，调试方便。该设备重要生产工序有检测：具备导线对齐检测、线缆有无剥皮检测、压力管理检测、导线穿连接器穿不到位检测、螺母间隙视觉检测，线缆绕圈、扎带自动扎紧及扎带尾料切断、输送线下料，确保客户成品质量可靠，无次品

## 流出。

HBQ-G206 光伏线束自动线设备，整机包含裁铆拧主机一套、放线架一套、储线架一套，绕线扎带机一套，主机可加工 200-1800mm 长的导线，通用线径  $\phi 5.7 \sim \phi 6.3$  ( $1 \times 4\text{mm}^2$ ) 光伏线缆，放线架最大可承重 1000Kg 卷线（滚筒）来料。

## 产品特征

- **高集成：**集裁线、剥皮、压接端子、连接器螺帽拧紧，绕线、打扎带、扎带尾料切除为一体；
- **高品质：**压力管理检测端子压接质量；
- **高精度：**送线精度  $L < 500\text{mm} \pm 1\text{mm}$ ； $L > 500\text{mm}$  ( $1\text{mm} + 0.2\%L$ )  
绕线直径精度  $\pm 10\text{mm}$ ，扎带尾料切除 1mm；
- **操作人性化：**送线长度、剥皮长度可以通过参数设置调节，产品更换可通过触摸屏一键切换并运行相应程序，不同长度产品及绕线需求采用不同配方一键切换；

## 产品参数

型号	HBQ-G206
裁铆拧长度范围	200~1800mm
绕线长度范围	500~1800mm
长度精度	$L < 500\text{mm} : \pm 1\text{mm}$ ; $L > 500\text{mm} : \pm (1\text{mm} + 0.2\% * L)$

绕线直径	90~200mm (±10mm)
剥皮长度	0~15mm
送线速度	250m/min (max)
电源	380V/60Hz
气压	0.5~0.7Mpa
耗气量	90L/min
湿度范围	10%~80% 无凝结
环境温度	0~40℃
生产效率	8S/PCS
设备噪音	≤75db
主机尺寸	L5600×W1400×H2000mm (不含放线架和储线架)
重量	2800kg

# **HBQ-G206 Photovoltaic Harness Automatic Machine**

## **INTRODUCTION**

HBQ-G206 is a fully automatic photovoltaic cutting, riveting, twisting and winding cable tie processing machine, including cutting (stripping), terminal riveting, connector nut tightening, wire tie and other functions. The whole machine layout adopts modular design, high efficiency, easy debugging. And there are detection functions: such as wire alignment detection, cable stripping detection, pressure management detection, wire connector not in place detection, nut gap visual detection, to ensure the quality of customers' finished products is reliable, no defective products flow out, automatic grasp of the robot, cable winding, automatic tightening of the cable tie and cut off the tail of the cable, conveying material under the line, etc.

HBQ-G206 photovoltaic wire harness automatic wire machine, the whole machine includes a set of cutting, riveting and screwing host, a set of pay-off rack, a set of wire storage rack, a set of wire winding and binding machine, the host can process 200-1800mm long wire, general diameter  $\varphi 5.7 \sim \varphi 6.3$  ( $1 \times 4 \text{mm}^2$ ) photovoltaic cable, pay-off rack can bear a maximum of 1000Kg coil (drum) material.

## FEATURES

- High integration:** set cutting line, peeling, crimp terminals, connector nut tightening, winding, tying tape, tying tape tail material removal as a whole;
- High quality:**Pressure management detects terminal crimping quality;
- High precision:**wire accuracy  $L < 500\text{mm} \pm 1\text{mm}$ ;  $L > 500\text{mm}$  ( $1\text{mm} + 0.2\%L$ )  
  
The diameter accuracy of the winding is  $\pm 10\text{mm}$ , and the tail material of the cable tie is removed by 1mm;
- User-friendly operation:** wire feeding length and peeling length can be adjusted by parameter setting, product replacement can be switched by touch screen and run the corresponding program, and different length products and winding needs can be switched with different formulas;

## SPECIFICATIONS

Type	HBQ-G206
Cutting Riveting Screw Length Range	200-1800mm
Winding Length Range	500-1800mm
Length Accuracy	$L < 500\text{mm} : \pm 1\text{mm}$ ; $L > 500\text{mm} : \pm (1\text{mm} + 0.2\% * L)$
Winding Diameter	90~200mm ( $\pm 10\text{mm}$ )

Stripping Length	0-15mm
Wire Feed Speed	250m/min(max)
Power Connection	380V 60Hz
Air Pressure	0.5-0.7Mpa
Air Consumption	90L/min
Weight	2800kg
Dimensions	L5600×W1400×H2000mm(Pay-off rack and storage rack are not included)
Humidity Range	10%~80% non-conding
Ambient Temperature	0~40℃
Production Efficiency	8S/PCS
Equipment Noise	≤75db



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