



**eldec**

## 铣刨齿刀具部件全自动焊接热处理解决方案

Fully Automatic Welding and Heat Treatment Solution for Pick Tool Components



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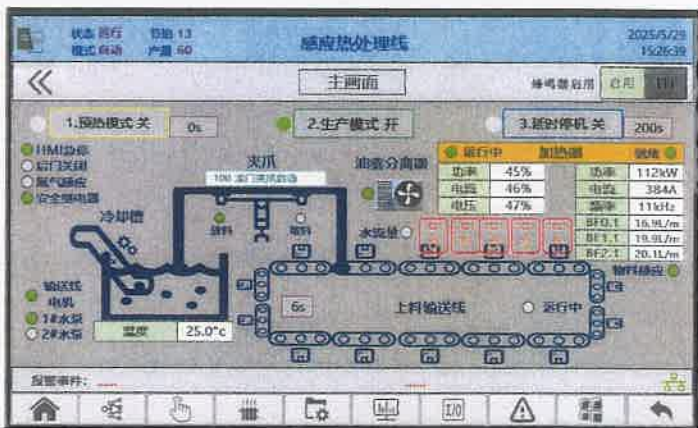
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# 设备介绍

## Equipment Introduction

产品主要应用于各种截齿的中高频淬火、退火、焊接等。  
The product is mainly used for medium and high-frequency quenching, annealing, welding, etc. of various cutting tools.  
设备选型及感应器制作:可根据客户淬火层深度、加热温度、加热效果、工件直径大小的不同来选择适合的型号机型，并制作配套感应器。  
Equipment selection and sensor fabrication: The appropriate machine model can be selected based on the customer's requirements for quenching depth, heating temperature, heating effect, and workpiece diameter. Matching sensors can also be manufactured.



型号 Model

UNI-BRAZER JC30

频率 Frequency

6-40kHz: 适用于中等和较大穿透深度  
6-40 kHz (suitable for medium and large penetration depths)

生产节拍 Production Cycle

1pcs/10~20秒  
1 piece / 10~20 seconds

刀具尺寸 Tool Dimensions

高100~300mm; 直径40~70mm  
Height 100~300 mm; Diameter 40~70 mm

电气配置 Electrical Configuration

西门子+施耐德+触摸屏  
Siemens + Schneider + Touchscreen  
95%

逆变效率 Inverter efficiency

设备电源 Equipment power supply

AC380V/50Hz

设备功率 Equipment power

70~200 KW

设备外形 Overall Dimensions

4\*15\*3.3 米 (长\*宽\*高)  
4 × 15 × 3.3 m (L×W×H)



## 焊接感应电源-CUSTOM-LINE

Welding Induction Power Supply- CUSTOM-LINE

MF(中频)8-20 kHz或16-40 kHz:适用于中型和大型穿透深度

MF (Medium Frequency) 8–20 kHz or 16–40 kHz:

Suitable for medium and large penetration depths

CUSTOM-LINE-技术特点

CUSTOM-LINE Technical features



EEi2触摸屏的直观操作

The intuitive operation of the EEi2 touchscreen

功率、频率、电流和电压显示

Power, frequency, current, and voltage display

各种水路的流量和温度监测

Monitoring of flow and temperature of various waterways

操作模式:持续、瞬时、定时

Operation mode: Continuous, Instantaneous, Timed

用于4-20 mA温度检测的传感器信号

Sensor signal for 4–20 mA temperature detection)

SIEMENS PLC, Pilz安全控制系统

SIEMENS PLC, Pilz safety control system

以1%为增量实现精确的功率输出

Achieve precise power output with 1% increments

通过Profinet接口进行外部控制和数据交换

External control and data exchange via the Profinet interface

短路和抗空载IGBT晶体管技术

Short-circuit and anti-no-load IGBT transistor technology控制型号:功率、温度(PID)  
Control model: Power, Temperature (PID)

自动适应谐振频率

Automatically adapts to the resonant frequency

逆变器效率>95%(取决于运行状态)

Inverter efficiency > 95% (depending on operating conditions)

可存储多达500个操作流程

store up to 500 operation procedures

8个不同的定时器, 每个定时器的运行时间从0.1秒到最大 9.999 秒不等

8 timers with running times ranging from 0.1 to 9.999 seconds each

温度和体积流量监控流体回路带报警功能

Temperature and volume flow rate monitoring for fluid circuits with alarm function

即使超过居里温度也可以通过脉宽调制(MF)和脉冲数据包控制(HF)进行自动调节和功率调节

Even beyond the Curie temperature, it can be automatically adjusted and its power can be regulated through pulse width modulation (MF) and pulse data packet control (HF).

额外接口和连接:高温计、脚踏开关、脚踏板、急停通道、再冷却系统、24V输出、4色信号灯。

Additional interfaces and connections: pyrometer, foot switch, foot pedal, emergency stop channel, recirculation system, 24V output, 4-color signal light

具有电位隔离的电路拓扑结构

Circuit topology with potential isolation

IP54 外壳 IP54 enclosure



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