DPS系列IGBT电熔焊机
DPS series IGBT electrofusion welding machine

DPS20 系列
DPS20 series
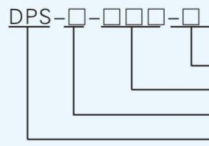
DPS10 系列
DPS10 series

产品用途 Application

产品主要应用于聚乙烯（PE）压力或非压力管道电熔、承插口连接的专用设备。

The product is the special connecting device used to polythene pressure and non-pressure pipe electrofusion or socket connection.

产品特点 Features

● 高级数字单片机作为控制核心，有丰富的参数设定、检测和完善的保护功能

● 高亮度液晶显示，多语种操作，友好的人机交互界面

● 20%的宽电源电压输入，充分适应了复杂施工现场的特定电源环境

● 电源突变时输出响应时间快，稳定性好

● 0.5%的高精度的电能、时间控制，确保焊接质量

● U盘读取、导入焊接记录存储功能

● 键盘手动输入或条形码扫描输入

● 自动检索管件进行焊接；

● 具有多达6段可编程焊接功能适应不同管件的焊接要求

● 良好并丝保护功能

● 优化的设计和SMT焊接工艺，降低了整机的故障率

● 结构设计紧凑，重量轻便，适用于非地面施工携带

● 采用高防护等级设计

● Advanced digital MCU as control core, with abundant parameter setting, detection and perfect protection functions

● High brightness LCD, multi language operation, friendly human-machine interface

● 20% wide supply voltage input, fully adapted to complex construction site specific power environment

● Swiftly output response time when power supply breaks, high stability.

● 0.5% high precision power, time control, ensure welding quality

● USB read, import welding records storage function

● Keyboard manual input or barcode scan input

● Automatic retrieval of pipe fittings for welding

● With up to 6 phases programmable welding function, can adapt to different pipe welding requirements

● Good doubling protection function

● Optimized design and SMT welding process, reduce the fault rate of whole machine

● Compact structural design, lightweight, suitable for non ground construction carrying

● Using high protection level design

型号定义 Model Definition

DPS-□-□□□-□

- 选配功能：不带选配功能可缺省　Optional function: Omitted without optional function
- 额定功率　Rated power:
- 设计序号：10或20　Design NO.: 10 or 20
- IGBT电熔焊机　IGBT electrofusion welding machine

型号规格 Model	额定功率（kW） Rated power	输入电压（V） Input voltage	额定电流（A） Rated current	额定电压（V） Rated voltage	焊接规格(mm) Welding specification	长×宽×高(mm) L *W *H	产品重量 Weight（kG）	选配功能 Optional function
DPS20-2K2	2.2	2φAC220V±20%	45	55	Dn50-200	352×188×341	9.0 kG	S: 扫描枪读取　S: Scanner reading G: GPS定位　G: GPS location P: 外接打印机　P: External printer
DPS20-3K5	3.5	2φAC220V±20%	55	75	Dn50-250	352×188×341	9.5 kG	
DPS10-6K	6	3φAC380V±20%	60	120	Dn50-315	480×273×440	29.5 kG	S: 扫描枪读取　S: Scanner reading
DPS10-8K	8	3φAC380V±20%	60	150	Dn50-400	480×273×440	29.5 kG	
DPS10-12K	12	3φAC380V±20%	80	170	Dn50-500	480×273×440	31 kG	
DPS10-15K	15	3φAC380V±20%	80	210	Dn50-800	480×273×440	31 kG	

配件名称	型号	配件名称	型号
扫描枪	FG-2801C	接头4.0	DP001A-T003
打印机	MTP58B-SU	接头4.7	DP001A-T004
输出电缆L2	YC-1×10-TD	接头5.0	DP001A-T005
输出电缆L1	YC-1×16-TD	铜柱	DP001B-T001

Accessory	Model	Accessory	Model
Scanner	FG-2801C	Joint 4.0	DP001A-T003
Printer	MTP58B-SU	Joint 4.7	DP001A-T004
Output cable L2	YC-1×10-TD	Joint 5.0	DP001A-T005
Output cable L1	YC-1×16-TD	Copper column	DP001B-T001

说明：
1、管件焊接规格是推荐参数，具体焊接需要依据管件参数确定选用功率。
2、DPS10-15K、DPS10-12K、DPS10-8K、DPS10-6K可工作于AC175～AC450V的宽电压范围，但只有在额定输入电压下才能输出对应标定的功率；

Note:
1、Pipe welding specification is recommended parameters, specific welding according to the pipe parameters to determine the selected power.
2、DPS10-15K、DPS10-12K、DPS10-8K、DPS10-6K can operate in wide voltage range from AC175 to AC450V, but only output corresponding calibration power at rated input voltage.

规格参数 Specification Parameter

输入电源	
输入电压	2φAC220V±20%或3φAC380V±20%
输入频率	40～65Hz
输出电源	
额定电压	见型号定义
额定功率	见型号定义
控制特性	
控制方式	恒电压、恒电流
电量恒定精度	≤±0.5%
时间控制精度	≤±0.01%
温度测量精度	≤1%
功能特点	
编程焊接功能	支持多段编程焊接，可适应不同管件的焊接要求
焊机暂停保持功能	通过窗口设置可在焊接过程中设置暂停焊接，暂停恢复后继续焊接
数据存储功能	存储焊接记录、工程代码、管件信息等内容
USB接口功能	USB数据导入导出功能
管件扫描功能	可扫描符合ISO 13950-2007的24位条形码（选配）
打印功能	通过打印机可打印焊机记录（选配）
GPS定位功能	可显示焊机所处的经纬度（选配）
环境	
使用环境温度	-20～50℃
存储温度	-30～70℃
湿度	20%～90%RH，无水珠凝结
振动	<0.5G 无剧烈振动和冲击
海拔高度	低于1000米，超过1000米按GB/T3859.2-93标准降额使用

Input power supply	
Input voltage	2φAC220V±20% or 3φAC380V±20%
Input frequency	40～65Hz
Output power supply	
Rated voltage	See type definition
Rated power	See type definition
Control characteristics	
Control mode	Constant voltage, constant current
Electric quantity constant precision	≤±0.5%
Time control precision	≤±0.01%
Temperature measuring precision	≤1%
Functional characteristics	
Programming welding function	Support multiple programming welding, adapt to different pipe welding requirements
Pause hold function of welder	Set suspended welding in the welding process, and continue to welding after pause canceled
Data storage function	Storage welding records, engineering code, pipe information, etc
USB interface function	USB data import and export function
Pipe scanning function	Scan 24 bit bar code conform to ISO 13950-2007（option）
Print function	Print welding machine records by printer（option）
GPS location function	Display the latitude and longitude of welding machine（option）
Ambient	
Ambient temperature	-20～50℃
Storage temperature	-30～70℃
Humidity	20%～90%RH, no condensation
Vibration	<0.5G, no violent vibration and impact
Altitude	<1000m AMSL, when≥1000m de-rate in accordance with GB/T3859.2-93