

行业内最具有影响力的
超声波自动追频研发企业

9系列电箱

9 series electrical box



电箱特点 Characteristics of the electrical box

- 配备多种焊接模式（时间、能量、功率、绝对深度、相对深度）可兼顾多种不同焊接应用；
- 可同时开启或单独使用焊接时的品质监控；
- 可接入MES系统实时上传焊接数据，可扩展至上位机功能并支持扫码对应记录数据；
- 实时显示焊接曲线，可直观了解焊接时的动态走向；
- 可存储多组数字或字母结合命名的焊接数据，便于操作人员查找调用；
- 可存储多条焊接记录，可导出至PC端，便于品质管理的追溯查找；
- Equipped with multiple welding modes (time, energy, power, absolute depth, relative depth), it can accommodate various welding applications;
- Quality monitoring during welding can be enabled simultaneously or separately;
- It can be connected to the MES system to upload welding data in real time, and can be extended to the upper computer function and support scanning corresponding record data;
- Real time display of welding curves, allowing for intuitive understanding of the dynamic direction during welding;
- It can store welding data named by combining multiple sets of numbers or letters, making it easy for operators to search and call;
- Can store multiple welding records and export them to the PC for easy traceability and search of quality management;

优点 advantage

全新设计扫频追频线路，可在0.5秒内扫频并锁定，极大程度降低了换能器与模具在开机扫频时的不必要损伤；
系统采用恒定振幅线路，不受外部电压的变化影响，始终保持工作时的高压、高振幅输出；

The newly designed frequency scanning and tracking circuit can scan and lock in frequency within 0.5 seconds, greatly reducing unnecessary damage to the transducer and mold during startup frequency scanning;
The system adopts a constant amplitude circuit, which is not affected by external voltage changes and always maintains high voltage and high amplitude output during operation;

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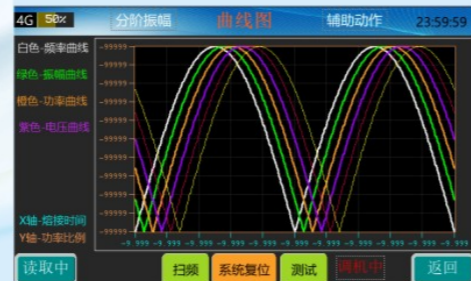


技术规格 technical specifications

型号Model	HZ-9系列(series)				
	9.0	9.1	9.3	9.4	9.5
频率Frequency 功率Power	15K 3500-6000W	20K 3000-8000W	35K 800-1000W	28K 1600W	40K 800-1000W
输入电压 Input Voltage	AC220V-380V				
控制界面 Control interface	HIM7-10 寸人机界面 HIM 7-10 inch human-machine interface				
语言选择 Language selection	中文、英文、其他 Chinese, English, Other				
触发操作 Trigger operation	短按、长按、连续、外控、夹具模式 Short press, long press, continuous, external control, fixture mode				
外部通讯接口 External communication interface	485/232				
光栅保护功能 Raster protection function	●	●	●	●	●
自动卷膜装置 Automatic film rolling device	●	●	●	●	●
多气缸夹具 Multi-cylinder jig	●	●	●	●	●
上位机扩展 Host extension	◎	◎	◎	◎	◎
焊接模式 Welding mode	时间模式Time pattern	●	●	●	●
	能量模式Energy pattern	●	●	●	●
	功率模式Power mode	●	●	●	●
	绝对深度Absolute depth	-	●	●	●
	相对深度Relative depth	-	-	●	●
	推力模式Thrust mode	-	-	-	●
外型尺寸Size (mm)	立式350*280*120mm 卧式378*246*120mm				
净重Weight	7.0/8.5Kg				
备注 : Remarks:	● 标配 ● Standard configuration ◎ 选配 ◎ Optional configuration - 无 - None				

超声波金属端子焊接机

Ultrasonic metal terminal welding machine



优点 advantage

- 全新设计扫频追频线路，可在0.05秒内扫频并锁定，极大程度降低了换能器与模具在开机扫频时的不必要损伤；
- 系统升级至恒定振幅线路，不受外部电压的变化影响，始终保持工作时的高压、高振幅输出；
- The newly designed frequency scanning and tracking circuit can scan and lock the frequency within 0.05 seconds, greatly reducing unnecessary damage to the transducer and mold during startup frequency scanning;
- The system adopts a constant amplitude circuit, which is not affected by external voltage changes and always maintains high voltage and high amplitude output during operation;

整机特点 Features of the whole machine

- 大型一体式机架，方便移动，且坚固不变形，可确保焊接时机头不变形后仰；
- 配置品牌电器元件，气压精度可控0.01bar有效保证焊接精度；
- 搭载安全防压透明工作门，时实的观察焊接的工作状态，同时与有效确保操作者的人身安全；
- 整机动作由多点位PLC控制，保证操作的流畅性；
- 搭配电子磁栅尺及压力传感器可实现绝对深度与相对深度的精准控制（0.01mm）；
- 配备多种焊接模式（时间、能量、功率、绝对深度、相对深度）可兼顾多种不同焊接应用；
- 可同时开启或单独使用焊接时的品质监控；
- 可接入MES系统实时上传焊接数据，可扩展至上位机功能并支持扫码对应记录数据；
- 实时显示焊接曲线，可直观了解焊接时的动态走向；
- 可存储多组自命名的焊接数据，便于操作人员查找；
- 可存储多条焊接记录，可导出至PC端便于品质管理的追溯查找；
- 装配精密多功能全自动底模，可有效解决端子摆放和电缆线的定位，可保证焊接时的品质与外观；

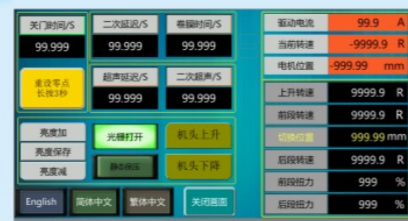
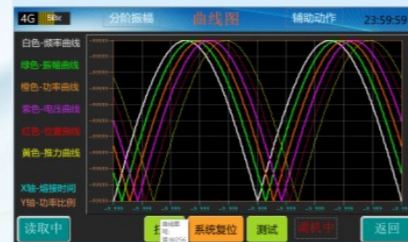
- Large integrated frame, easy to move and sturdy without deformation, ensuring that the machine head does not deform and tilt back during welding;
- Configure branded electrical components, with a controllable air pressure accuracy of 0.01 bar, effectively ensuring welding accuracy;
- Equipped with a safety and pressure resistant transparent working door, it can observe the working status of welding in real time and effectively ensure the personal safety of operators;
- The whole machine is controlled by a multi-point PLC to ensure smooth operation;
- Paired with an electronic magnetic grating ruler and pressure sensor, precise control of absolute depth and relative depth (0.01mm) can be achieved;
- Equipped with multiple welding modes (time, energy, power, absolute depth, relative depth), it can accommodate various welding applications;
- Quality monitoring during welding can be enabled simultaneously or separately;
- It can be connected to the MES system to upload welding data in real time, and can be extended to the upper computer function and support scanning corresponding record data;
- Real time display of welding curves, allowing for intuitive understanding of the dynamic direction during welding;
- Can store multiple sets of self named welding data for easy searching by operators;
- Can store multiple welding records and export them to the PC for easy traceability and search of quality management;
- Assembling a precision multifunctional fully automatic bottom mold can effectively solve the problem of terminal placement and cable positioning, ensuring the quality and appearance of welding;

技术规格 technical specifications

型号Model	HZ20-9000
频率Frequency	20K
功率Power	9000W
输入电压 Input Voltage	AC380V三相
焊头行程Head stroke	150mm
输入气压 Air Pressure	>1, ≤7bar
控制界面Control interface	工控电脑
语言选择Language selection	中文、英文、其他
触发操作Trigger operation	短按、长按、连续、外控、夹具模式
外型尺寸Size (mm)	1250*950*2000mm
净重Weight	1040Kg

20K伺服型超声波塑胶焊接机

20K servo ultrasonic plastic welding machine



优点 advantage

- 全新设计扫频追频线路，可在0.5秒内扫频并锁定，极大程度降低了换能器与模具在开机扫频时的不必要损伤；
- 系统升级至恒定振幅线路，不受外部电压的变化影响，始终保持工作时的 高压、高振幅输出；
- 可实现分段转速，及分段扭力的控制，特别针对PP/PA材质的焊接达到彻底熔胶；
- 原点可随意高度的设置，有效的提升焊接时的工作效率；
- The newly designed frequency scanning and tracking circuit can scan and lock in frequency within 0.5 seconds, greatly reducing unnecessary damage to the transducer and mold during startup frequency scanning;
- The system is upgraded to a constant amplitude circuit, unaffected by external voltage changes, and always maintains high voltage and high amplitude output during operation;
- It can achieve segmented speed control and segmented torque control, especially for the welding of PP/PA materials to achieve complete adhesive melting;
- The origin can be set at any height, effectively improving the work efficiency during welding;

整机特点 Features of the whole machine

- 高强度钢制机架，高压高速状态下工作坚固无后仰；
- 选用知名品牌伺服电机系统，可有效保障运行时精度可控在0.01mm；
- 电机升降机身，可降低人员操作时的疲劳程度；
- 选用底板水平调整方式，确保使用过程中水平位始终不变；
- 配备多种焊接模式（时间、能量、功率、绝对深度、相对深度）可兼顾多种不同焊接应用；
- 可支持同时开启或单独启用焊接时的品质监控；
- 可接入MES系统实时上传焊接数据，可扩展至上位机功能并支持扫码对应记录数据；
- 实时显示焊接曲线，可直观了解焊接时的动态走向；
- 可存储多组数字或字母结合命名的焊接数据，便于操作人员查找；
- 可存储多条焊接记录，并导出至PC端，便于品质管理的追溯查找；
- 可设置分段的振幅，降低焊接时内部件的损坏、表面的烫伤；
- High strength steel frame, sturdy and without tilting under high-pressure and high-speed conditions;
- Using a well-known brand servo motor system can effectively ensure that the accuracy during operation is controllable within 0.01mm;
- The motor lifts the machine body, which can reduce the fatigue level of personnel during operation;
- Select the bottom plate horizontal adjustment method to ensure that the horizontal position remains unchanged during use;
- Equipped with multiple welding modes (time, energy, power, absolute depth, relative depth), it can accommodate various welding applications;
- Can support quality monitoring when welding is enabled simultaneously or separately;
- It can be connected to the MES system to upload welding data in real time, and can be extended to the upper computer function and support scanning corresponding record data;
- Real time display of welding curves, allowing for intuitive understanding of the dynamic direction during welding;
- It can store welding data named by combining multiple sets of numbers or letters, making it easy for operators to search;
- Can store multiple welding records and export them to the PC for easy traceability and search of quality management;
- Segmented amplitude can be set to reduce damage to internal components and surface burns during welding;

技术规格 technical specifications

型号Model	HZ-9.5SF			
频率Frequency	30K	20K		15K
功率Power	1500W	3000W	4000W	3500W
输入电压Input Voltage	AC220V	AC220V	AC220V	AC220V
Z轴行程Z-axis travel	10-100mm			
Z轴精度Z-axis accuracy	0.01 mm			
合模范围Jointmodel circumference	100-550mm			
扭力限制Torque limitation	35%-100%			
控制界面Control interface	HIM7-10寸人机界面			
语言选择Language selection	中文、英文、其他			
触发操作Trigger operation	短按、长按、连续、外控、夹具模式			
外型尺寸Size (mm)	680*460*1550mm			
净重Weight	130Kg			

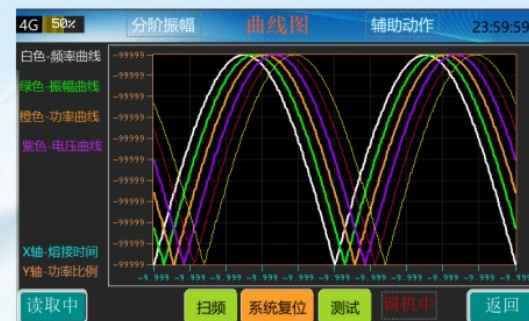
气动精密型超声波焊接机

Pneumatic precision ultrasonic welding machine



优点 advantage

- 全新设计扫频追频线路，可在0.5秒内扫频并锁定，极大程度降低了换能器与模具在开机扫频时的不必要损伤；
- 系统升级至恒定振幅线路，不受外部电压的变化影响，始终保持工作时的高压、高振幅输出；
- Newly designed frequency scanning and tracking circuit, which can scan and lock in frequency within 0.5 seconds, greatly reducing unnecessary damage to the transducer and mold during startup frequency scanning;
- Upgrade the system to a constant amplitude circuit, unaffected by external voltage changes, and always maintain high voltage and high amplitude output during operation;



整机特点 Features of the whole machine

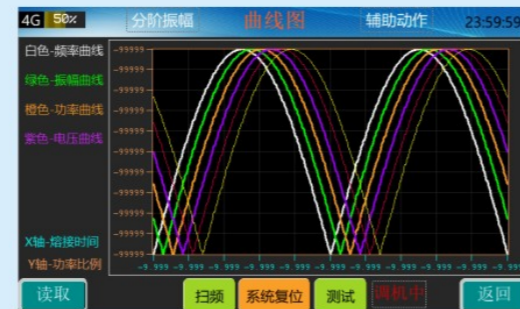
- 高强度钢制机架，高压高速状态下工作坚固无后仰；
- 配置品牌电器元件，气压精度可控0.01bar有效保证焊接精度；
- 搭配电子磁栅尺及压力传感器可实现绝对深度与相对深度的精准控制（0.01mm）；
- 电机升降机身，可降低人员操作时的疲劳程度；
- 可选用底板水平调整方式，确保使用过程中的焊接精度；
- 配置高精密机械限位，产品焊接精度可控在0.01mm
- 配备多种焊接模式（时间、能量、功率、绝对深度、相对深度）可兼顾多种不同焊接应用；
- 可支持同时开启或单独使用焊接时的品质监控；
- 可接入MES系统实时上传焊接数据，可扩展至上位机功能并支持扫码对应记录数据；
- 实时显示焊接曲线，可直观了解焊接时的动态走向；
- 支持存储多组数字或字母结合命名的焊接数据，便于操作人员查找；
- 可存储多条焊接记录，并导出至PC端便于品质管理的追溯查找；
- High strength steel frame, sturdy and without tilting under high-pressure and high-speed conditions;
- Configure branded electrical components, with a controllable air pressure accuracy of 0.01 bar, effectively ensuring welding accuracy;
- Paired with an electronic magnetic grating ruler and pressure sensor, precise control of absolute depth and relative depth (0.01mm) can be achieved;
- The motor lifts the machine body, which can reduce the fatigue level of personnel during operation;
- The horizontal adjustment method of the bottom plate can be selected to ensure welding accuracy during use;
- Equipped with high-precision mechanical limits, the welding accuracy of the product can be controlled within 0.01mm
- Equipped with multiple welding modes (time, energy, power, absolute depth, relative depth), it can accommodate various welding applications;
- Can support quality monitoring when welding is turned on simultaneously or used separately;
- It can be connected to the MES system to upload welding data in real time, and can be extended to the upper computer function and support scanning corresponding record data;
- Real time display of welding curves, allowing for intuitive understanding of the dynamic direction during welding;
- Support storing welding data named by combining multiple sets of numbers or letters, making it easy for operators to search;
- Can store multiple welding records and export them to the PC for easy traceability and search of quality management;

技术规格 technical specifications

型号Model	HZ-9.3QD			
频率Frequency	30K	20K	15K	
功率Power	1500W	3000W	4000W	3500W
输入电压 Input Voltage	AC220V	AC220V	AC220V	AC220V
Z轴行程Z-axis travel	10-100mm			
Z轴精度Z-axis accuracy	0.01mm			
合模范围Jointmodel circumference	100-500mm			
输入气压 Air Pressure	>1, ≤7bar			
控制界面Control interface	HIM7-10寸人机界面			
语言选择Language selection	中文、英文、其他			
触发操作Trigger operation	短按、长按、连续、外控、夹具模式			
外型尺寸Size (mm)	680*460*1550mm			
净重Weight	130Kg			

大功率超声波塑胶焊接机

High power ultrasonic plastic welding machine



优点 advantage

- 全新设计扫频追频线路，可在0.5秒内扫频并锁定，极大程度降低了换能器与模具在开机扫频时的不必要损伤；
- 系统升级至恒定振幅线路，不受外部电压的变化影响，始终保持工作时的高压、高振幅输出；
- Newly designed frequency scanning and tracking circuit, which can scan and lock in frequency within 0.5 seconds, greatly reducing unnecessary damage to the transducer and mold during startup frequency scanning;
- Upgrade the system to a constant amplitude circuit, unaffected by external voltage changes, and always maintain high voltage and high amplitude output during operation;

整机特点 Features of the whole machine

- 高强度钢制方柱机架，高压高速状态下工作坚固无后仰；
- 电机升降机身，可降低人员操作时的疲劳程度；
- 特有水平调整，可快速调整工作时焊头的平整度；
- 配备最新线路快速扫频并锁定换能器、模具与系统的匹配频率，使得焊接效果更为理想；
- 可支持同时开启或单独启用焊接时的品质监控；
- 可接入MES系统实时上传焊接数据，可扩展至上位机功能并支持扫码对应记录数据；
- 实时显示焊接曲线，可直观了解焊接时的动态走向；
- 可存储多组自命名的焊接数据，便于操作人员查找；
- 可存储多条焊接记录，并导出至PC端，便于品质管理的追溯查找；
- High strength steel square column frame, sturdy and without tilting under high-pressure and high-speed conditions;
- The motor lifts the machine body, which can reduce the fatigue level of personnel during operation;
- Unique horizontal adjustment, which can quickly adjust the flatness of the welding head during operation;
- Equipped with the latest line for fast frequency scanning and locking the matching frequency between the transducer, mold, and system, making the welding effect more ideal;
- Can support quality monitoring when welding is enabled simultaneously or separately;
- It can be connected to the MES system to upload welding data in real time, and can be extended to the upper computer function and support scanning corresponding record data;
- Real time display of welding curves, allowing for intuitive understanding of the dynamic direction during welding;
- Can store multiple sets of self named welding data for easy searching by operators;
- Can store multiple welding records and export them to the PC for easy traceability and search of quality management;

技术规格 technical specifications

型号Model	HZ-1015QD	
频率Frequency	15K	
功率Power	4200W	6000W
输入电压 Input Voltage	AC220V	AC220V
机身行程Machine Journey	500mm	
输入气压 Air pressure	>1, ≤7 bar	
控制界面Control interface	HIM 7寸人机界面	
语言选择Language selection	中文、英文、其他	
触发操作Trigger operation	短按、长按	
外型尺寸Size (mm)	1000*750*2000mm	
净重Weight	200Kg	