



ZHEJIANG XINRUI BRAZING TECHNOLOGY CO. LTD

浙江新锐焊接科技股份有限公司

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Company: No. 199 Jingfa Road Shengzhou Zhejiang Economic Development Zone

Factory: No.8 Ruixin Road Shengzhou Zhejiang High-Tech Industries Development Zone

证券代码：834975



钎焊管家

All-In-One Brazing Solution



关于新锐

浙江新锐焊接科技股份有限公司（以下简称“新锐公司”）成立于2002年7月，占地面积20000平方米，注册资金3010.56万元人民币，现有职工108人，其中博士3人，硕士2人，本科20余人，专科20余人。2002年，公司以焊接装置类产品开始创办；2003年开始助焊剂系列产品生产；在2007年开始了与南京航空航天大学的合作，开发了钎焊材料类产品，2011年又通过与日本大进工业研究所的合作，开展了钎焊设备事业，2017年开始无人化智能钎焊设备，2018年进行打造钎焊管家式服务。

新锐公司是一家国家高新技术企业，成功研发省级新产品十余项，申请并授权各类专利二十余项，其中发明专利7项，并获得国家科技部资助项目3项，国家创新基金2项。公司通过规范化、合理化改革，2015年已成功在全国中小企业股份转让系统挂牌，同年建成省级高新技术企业研究开发中心，2017年建成浙江省博士后工作站。

Zhejiang Xinrui brazing technology co., LTD. (referred to as the "XINRUI") was established in July 2002, covers an area of 20000 square meters, registered capital RMB 30.1056 million, with 108 employees including 3 PhD'S, 2 master's, more than 20 bachelors. In 2002, it started with brazing equipment products, launched vapogasflux series production in 2003. In 2007 we started the cooperation with Nanjing University of Aeronautics and Astronautics, to develop the brazing material products. In 2011, it Jointly set up the XINRUI Daishin brazing equipment company limited with Daishin Industrial Co., Ltd to manufacture high-end automation brazing equipment., unmanned intelligent brazing equipment, and in 2017 established robotic intelligent brazing machines. In 2018 XINRUI started all-in-one brazing solution services. Since established, the company has been persisting in the development strategy of priority to technology, and to follow the trend of technology development.

As a national hi-tech enterprise, it has developed over ten provincial-level new products and has applied for over 20 various patents including invention patents and 3 projects supported by ministry of Science and Technology, and 2 national innovation funds After standardization and reasonable reforms in 2015, the company has been listed on national Equities Exchange and Quotations. and Its research center was identified as provincial-level research center of new brazing technology. In 2017 it established post-doctoral workstation.



公司产品发展史

2018年

进行打造钎焊管家式服务

In 2018 we launched brazing services called ALL-IN-ONE BRAZING SOLUTION .

2011年

与日本大进工业研究所合作
推出智能焊接设备系列产品

In 2011 we founded a joint venture with Japan's DAISHIN INDUSTRIAL CO.,LTD to launch brazing automatic machines

2008年

推出铝铝钎焊材料系列产品

In 2008, we started to produce brazing material of aluminum alloy.

2003年

推出助焊剂系列产品

In 2003, we started to produce vapogas flux , environmental non pickling flux, and brazing flux.

2017年

▲ 机器人焊接项目成立
▲ 新能源汽车用—特种新型复合铝钎料项目成立

In 2017, we launched robotic brazing machines, The new special composite Zn-Al brazing for new energy vehicle project was established.

2009年

推出钎料系列产品

In 2009, we started to produce copper based brazing material and silver brazing material.

2007年

推出铜铝钎焊材料系列产品

In 2007, we started to produce brazing material for copper to aluminum brazing.

2002年

开始生产及销售装置系列产品

In 2002, we started our business with producing Flux Vaporizer, Gas saver and so on

2002年-2018年

铜铝钎焊材料

Brazing Material for Copper to Aluminum

铜铝药芯焊丝是一种外皮是锌铝合金，内层是白色氟化物钎剂组成的复合钎焊材料。白色的钎剂不吸湿，无腐蚀性，焊接后无需清洗。目前主要应用于紫铜与铝合金、黄铜与铝合金、铝合金与铝合金的火焰钎焊、高频感应钎焊、炉中钎焊。

The Cu-Al flux-cored wire consists of a zinc-aluminum alloy in strip form that is rolled around a white, powdered fluoride flux. The flux is non-corrosive and non-hygroscopic. It's used to braze for joining copper to aluminum, brass to aluminum and aluminum to aluminum by flame brazing, induction brazing and furnace brazing.



名称 Name	型号 Type	化学成分 Composition		焊粉量 Flux Filling Amount(wt%)	线径 Wire Diameter(mm)	包装方式 Package Type	钎焊温度 Brazing TEMP.(°C)	备注 Comment
		金属 Metal	钎剂 Flux					
铜铝药芯 焊丝 Cu-Al Flux-cored wire	XR-FC0215	Zn、Al、其他	CsAlF4	10~20	1.6	0.5kg/盘	420~480	标准型，应用于铜与铝 铝与铝钎焊 Standard type, braze for joining copper to aluminum and aluminum to aluminum
	XR-FC20	Zn、Al、其他	CsAlF4		1.8	1kg/盘		应用于铜与铝、铝与铝钎焊 适合间隙较大的场合 braze for joining copper to aluminum and aluminum to aluminum.Larger joint clearance is also suitable.
	XR-FC22S	Zn、Al、其他	CsAlF4		2.0	2kg/盘		可应用于铜与铝、铝与铝钎焊 更高的强度和导电性 Higher strength,Braze for joining copper to aluminum and aluminum to aluminum
					2.2	5kg/盘		

名称 Name	型号 Type	化学成分 Composition		焊粉量 Flux Filling Amount(wt%)	线径 Wire Diameter (mm)	焊环内径 Ring ID (mm)	钎焊温度℃ Brazing TEMP.	包装方式 Package Type	备注 Comment
		金属 Metal	钎剂 Flux						
铜铝药芯 焊丝 Cu-Al Flux-cored wire	XR-FC22S	Zn、Al、其他	CsAlF4	10~20	1.3~2.2	—	420~480	盘丝：0.5kg/盘 1kg/盘 2kg/盘 5kg/盘	较好的流动性 适合小间隙的铜铝管钎焊 Fast Flow,Suitable for small clearance brazing copper to aluminum.
	XR-FC20S	Zn、Al、其他	Cs-Al-F					直条： 长度500mm	流动性低于FC22S 适合间隙较大的焊缝钎焊 slower flow than FC22S.Suitable for large clearance brazing copper to aluminum
铜铝药芯 焊环 Cu-Al Flux-cored Ring	XR-FC22S	Zn、Al、其他	CsAlF4			6.0~20.0		1kg/包 2000只/包	较好的流动性 适合小间隙的铜铝管钎焊 Fast Flow,Suitable for small clearance brazing copper to aluminum.
	XR-FC20S	Zn、Al、其他	Cs-Al-F						流动性低于FC22S 适合间隙较大的焊缝钎焊 slower flow than FC22S.Suitable for large clearance brazing copper to aluminum

铝合金钎焊材料

Brazing Material for Aluminum Alloy

铝药芯焊丝是一种外皮是铝硅合金，内层是白色氟化物钎剂组成的复合钎焊材料。白色的钎剂不吸湿，无腐蚀性，焊接后无需清洗。产品适用于制冷空调全铝换热器、冰箱冷柜换热器、汽车空调换热器、热泵用铝换热器、冷库铝排、各种铝管路、铝连接部件等的火焰钎焊、感应钎焊、炉中钎焊。

The Aluminum flux-cored wire consists of aluminum-silicate alloy in strip form that is rolled around a white, powdered fluoride flux. The flux is non-corrosive and non-hygroscopic. It's used to braze for joining copper to aluminum, brass to aluminum and aluminum to aluminum by flame brazing, induction brazing and furnace brazing. We have supplied the materials used by flame brazing, induction brazing and furnace brazing for air conditioners, evaporators, condensers, compressors, refrigerators & freezers, and ice machines, etc.



铝药芯焊丝和铝药芯焊环 Aluminum Flux-Cored Wire or Ring for Brazing of Aluminum



名称 Name	型号 Type	化学成分 Composition		温度Temp.(°C)		钎焊温度°C Brazing TEMP.	焊粉量 Flux Filling Amount(wt%)	线径 wire Diameter (mm)	焊环内径 Ring ID (mm)	包装方式 Package Type	备注 Comment		
		金属 Metal	钎剂 Flux	金属 Metal	钎剂 Flux								
铜铝药芯焊丝 Cu-Al Flux-cored wire	XR-FC0315	Al88Si2 (4047)	K-Cs-Al-F	577~585	545~565	595~625	20~32	1.3~2.2	—	盘丝: 0.5kg/盘 1kg/盘 2kg/盘 5kg/盘 直条: 1kg/捆 长度500mm	标准型Standard		
	XR-FC0315S		K-Cs-Al-F		540~575						特别适合铝与不锈钢的钎焊 Brazing of joining Aluminum to Stainless Steel		
	XR-FC0315Z		Cs-Al-F		420~450						特别适合铝换热器自动化钎焊 Perfectly suitable for aluminum heat exchanger brazing		
铜铝药芯焊环 Cu-Al Flux-cored Ring	XR-FC0315		K-Cs-Al-F		545~565						6.0~20.0	1kg/包 2000只/包	标准型Standard
	XR-FC0315S		K-Cs-Al-F		540~575								特别适合铝与不锈钢的钎焊 Brazing of joining Aluminum to Stainless Steel
	XR-FC0315Z		Cs-Al-F		420~450								特别适合铝换热器自动化钎焊 Perfectly suitable for aluminum heat exchanger brazing

铝焊丝 Aluminum Solid Wire

铝焊丝XR-4047是一种实心的铝硅焊丝，需与铝钎剂膏配合使用。

铝钎剂膏 Aluminum Flux Paste

铝钎剂膏CF-15是白色膏状钎剂，具有较低的活性温度，很高的活性，使得铝合金钎焊更加容易。它的钎剂残渣能够通过简单的清水或其他类似清洗剂除去。



铝焊膏 Aluminum Braze Paste

铝金属焊膏FC1110是一种铝硅金属粉末（4047）、无腐蚀性助焊剂、有机粘结剂组成的灰色膏状钎焊材料。

涂刷在待焊铝合金焊缝表面，适用于炉中钎焊、火焰钎焊、感应钎焊。

主要优点是特别适合焊缝表面比较复杂、形状不规则、钎焊面积大的工件的铝钎焊。

FC1110 is a kind of gray paste brazing material named aluminum braze paste and consists of aluminum-silicate powder (4047), non-corrosive fluoride flux and organic binder. You can brush the material on the surface of the joint gap before you began to heat by furnace brazing, flame brazing or induction brazing.

FC1110 is very adept at aluminum brazing that has a joint gap with larger area or anomalous shape.

银基钎料

Silver Brazing Materials

银基钎料是一种银或银基固溶体的钎料，具有优良的工艺性能、不高的熔点、良好的湿润性和填满间隙的能力，并且强度高、塑性好，导电性和耐蚀性优良，可以用来钎焊除铝、镁及其他低熔点金属外的所有黑色金属和有色金属。

Silver brazing Materials is have excellent processing properties, high melting point, good wettability good gap filling , high strength, plastic, high conductivity and excellent corrosion resistance, it can be used for all the ferrous and non-ferrous metals except aluminum,magnesium and other low melting point metal.



银基材料 Phos-Copper-Silver Brazing Alloys

牌号 Brazing Alloy	相当于国内外牌号 Standards	化学成分(%) Composition(%)						融化温度℃ Melting Range	适用范围 Application
		Ag	Cu	Zn	Sn	Si	Ni		
XR-Ag20	中/GB: BAg20CuZn 德/DIN: L-Ag20	19.0-21.0	43.0-45.0	34.0-38.0	—	0.05-0.25	—	690-810	熔化范围稍高，润湿性和填充性良好，价格经济。可焊接铜、铜合金、钢等材料。
XR-Ag25	中/GB: BAg25CuZn 德/DIN: L-Ag25	24.0-26.0	40.0-42.0	33.0-37.0	—	—	—	700-800	流动性较好，钎缝光洁，较好钎焊性和强度，适用于铜、铜合金、钢、不锈钢等部件钎焊，冰箱空调中的邦迪管，振动载荷的工件也可。
XR-Ag30	中/GB: BAg30CuZn 美/AWS: BAg-20 德/DIN: L-Ag30	29.0-31.0	37.0-39.0	30.0-34.0	—	—	—	680-765	融化温度低，接头有较好的韧性，适用于铜，铜合金、钢焊接。
XR-Ag45	中/GB: BAg45CuZn 美/AWS: BAg-5	44.0-46.0	29.0-31.0	23.0-27.0	—	—	—	665-745	有良好的流动性和填满间隙的能力，钎缝表面光洁，接头强度高，耐冲击载荷性能好。

含Sn、Ni或In银基材料 Sn/Ni/In Containing Silver Brazing Alloys

牌号 Brazing Alloy	相当于国内外牌号 Standards	化学成分(%) Composition(%)						融化温度℃ Melting Range	适用范围 Application
		Ag	Cu	Zn	Sn	Si	Ni		
XR-Ag50Ni	中/GB: BAg50CuZnNi 美/AWS: :BAg-24	49.0-51.0	19.0-21.0	26.0-30.0	—	—	1.5-2.5	660-705	焊缝表面光洁，钎焊接头强度比一般银钎高，适用于钎焊铜及铜合金、钢及不锈钢、调质钢、其他合金等。
XR-Ag25Sn	中/GB: BAg25CuZnSn 美/AWS: BAg-37 德/DIN: L-Ag25Sn	24.0-26.0	39.0-41.0	31.0-35.0	1.5-2.5	—	—	680-760	钎焊工艺性能好，适宜于机械、制冷等产品的零部件钎焊。
XR-Ag30Sn	中/GB: BAg30CuZnSn 德/DIN: L-Ag30sn	29.0-31.0	35.0-37.0	30.0-34.0	1.5-2.5	—	—	665-755	钎焊温度低，漫流工艺性能好，适宜于铜、钢及邦迪管的钎焊。
XR-Ag34Sn	中/GB: BAg34CuZnSn 德/DIN: L-Ag34Sn	33.0-35.0	35.0-37.0	25.5-29.5	2.0-3.0	—	—	630-730	有较好的流动性，更适用于铁素体和铁素体钢的焊接
XR-Ag40Sn	中/GB: BAg40CuZnSn 美/AWS: BAg-28 德/DIN: :L-Ag40Sn	39.0-41.0	29.0-31.0	26.0-30.0	1.5-2.5	—	—	650-710	有较好的流动性、渗透性和韧性，适用于钎焊铜、铜合金、钢等材料。
XR-Ag56Sn	中/GB: BAg56CuZnSn 美/AWS: :BAg-7 德/DIN: :L-Ag56Sn	55.0-57.0	21.0-23.0	15.0-19.0	4.5-5.5	—	—	620-665	以锡代镉，由于该钎料无毒，特别适用于食品设备等的钎焊。
XR-Ag34In	中/GB: BAg34CuZnIn	33.0-35.0	34.0-36.0	余量Bal.	—	—	—	660-740	属推广应用钎料，适于机械、制冷等产品的零部件钎焊。

新锐银基钎料具有精确的丝径和化学成分，可提供盘状焊丝、直条和焊环，为了焊工的健康，不应长时间使用含镉金属填料，焊接过程中产生的氧化镉含有剧毒且致癌，新锐银钎料合金不含镉。

The silver based solder has precise wire diameter and chemical composition, it can provide different forms of disc shaped, straight and ring. Concerning on the welder's health, the cadmium contained metal filler can not be used long time. XINRUI's silver brazing material does not contain cadmium at all.



铜基钎料

Copper Based Brazing Materials

铜基钎料分为高铜合金、铜锌合金、铜磷合金和特种铜合金四大类。
 Copper Based Brazing Materials are divided into four types: high copper alloy, copper zinc alloy, copper phosphorus alloy and special copper alloy.

铜锌合金钎料主要用于气体火焰钎焊、高频钎焊、盐浴浸渍钎焊，钎焊铜、铜合金以及镍、钢、铸铁、硬质合金等。

Copper zinc alloy solder is mainly used for gas flame braze welding, high frequency welding, salt bath dip brazing brazing copper, copper alloy and nickel, steel, cast iron and hard alloy.

铜磷合金钎料是以铜-磷两元合金为基的钎料，具有良好的流布性。主要用于钎焊铜及铜合金，由于含有较高的磷，因此不能用于钎焊钢、镍及其合金。铜磷合金中加入银会大大地提高钎料润湿性。

The copper phosphorus brazing alloy is mainly used for brazing of copper and copper alloys, Due to high phosphorus contained, it can not be used for brazing of steel, nickel and its alloys. The addition of silver in the copper phosphorus alloy can greatly increase the wettability of the solder.



无银铜基材料 Phos-Copper Brazing Alloys

牌号 Brazing Alloy	相当于国内外牌号 Standards	化学成分(%) Composition(%)							融化温度℃ Melting Range	适用范围 Application
		Cu	P	Sn	Zn	Si	O	Other		
XR-HS221-T	—	59-61	—	1-2	余量 Bal.	0.1-0.5	—	—	870-890	熔点较高，接头有较高的强度和较好的塑性 Used for brazing of copper, steel and cast iron
XR-201	—	≥99.97	—	—	—	—	≤0.003	≤0.003	1080-1085	主要用于钎焊铸铁 Used for joining ferrous metals, nickel base alloys and copper nickel alloys, steel assemblies.
XR-CuP2	中/GB: BCu93P 美/AWS: BCuP-2 日/JIS: BCuP-2	余量 Bal.	6.5-7.5	—	—	—	—	—	710-790	一般钎焊不受冲击载荷、无振动的铜和青铜零件，如冰箱上、空调器上的铜与铜接头等 It is a low cost alloy with wide melting range and low fluidity. Used in sanitary, refrigeration and air condition industry
XR-HS213	中/GB: BCu5210 美/AWS: ERCuSn-C 日/JIS: BCu-3	余量 Bal.	0.01-0.4	7.5-8.5	—	—	—	—	875-1025	主要适用于钢材焊接 也可以钎焊铸铁 Used for brazing of copper, cast iron.

含银铜基材料 Phos-Copper-Silver Brazing Alloys

牌号 Brazing Alloy	相当于国内外牌号 Standards	化学成分(%) Composition(%)			融化温度℃ Melting Range	适用范围 Application
		Cu	Ag	P		
XR-CuAg2	中/GB: BCu91PAg 美/AWS: BCuP-6 日/JIS: BCuP-6	余量 Bal.	1.8-2.2	6.8-7.2	643-788	流动性好，适合中等间隙接头，应快速加热 适用于冰箱、空调上“铜与铜”接头首选钎料 It fills moderate gaps in poorly fit joints and has good flow. It has the ability to fill wide joint clearances at the lower end of its brazing range. At the high end of the brazing range, it is more fluid. Recommended for sanitary and refrigerating installations industry.
XR-CuAg5	中/GB: BCu88PAg 美/AWS: BCuP-7 日/JIS: BCuP-3	余量 Bal.	4.8-5.2	6.5-7.0	643-771	钎料延展导电性得到提高，流动性好，适合较大间隙接头，应加速加热 It is same as silver 15% and economic. Used largely in the refrigeration and air condition industry.
XR-CuAg15	中/GB: BCu80PAg 美/AWS: BCuP-5 日/JIS: BCuP-5	余量 Bal.	14.5-15.5	4.8-5.2	645-800	钎料延展导电性得到进一步改善，流动性中，适于较大间隙接头，接头韧性良好 It has low melting point with good flow, used where narrow joint include uneven junctions, refrigeration industry, on parts such as coupling, manifolds, brass distributors, capillary pipes, have good mechanical characteristics at low temperature.

气体助焊剂

VAPOGAS FLUX

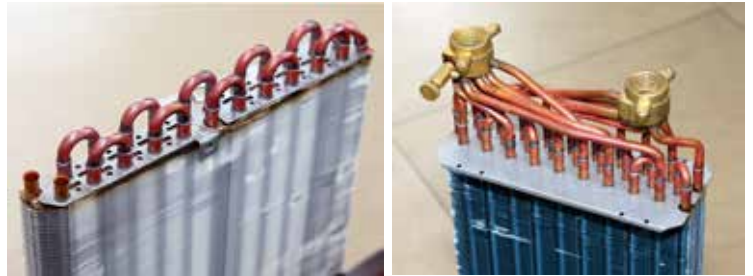
气体助焊剂是一种加入到火焰中的硬钎焊助剂，气体助焊剂被加入到专用装置“焊剂发生器”中，通过以蒸气的形式与通入焊剂发生器的燃气（乙炔、液化气、丙烷等）混合，在经管路到焊炬，燃烧时发出明亮绿色火焰。火焰通过覆盖钎焊部位，提高钎料的湿润性、流动性，减少针孔的产生，提高焊缝强度。钎焊区金属表面无氧化，焊后可以不用酸洗，提高生产效率，降低成本。



VAPOGAS FLUX consists of specially blended evaporative liquid flux that vaporizes in a special tank(Flux Vaporizer). The vaporized flux is carried by the fuel gas(EG.Acetylene,LPG,LNG ETC.)through the welding torch to the flame. Vapogas flux is a revolutionary flux which obviates the need to separately apply powder or paste type fluxes during welding or brazing applications. The flux in the flame removes oxides and is completely burnt off leaving no slag inclusions in fillet joints. Brazing with vapogas flux results in clean and bright finishes that will not corrode or discolor for a long time. VAPOGAS FLUX is recommended for both manual and automatic brazing applications and can be used with all types of fuel gases.



助焊剂使用效果 With VAPOGASFLUX



型号及适用范围 Available Fluxes

型号 Model	主要成分 Composition	产品特性 Product Characteristics	焊接母料 Base Metal	应用 Application
FB400L	硼酸三甲脂 Boric Acid Trimethyl.	为无色液体，易燃，防止接头氧化可免除后续酸洗清渣工序，易于实现自动化	只适用于紫铜与紫铜的钎焊 Only suitable with the application for the brazing of copper	火焰钎焊 Flame Brazing
FB402L		Colorless, class three flammable liquid Oxide formation on copper brazed joint is prevented thus keeping it clean and shiny. Suitable for auto-brazing application	适用于紫铜与紫铜，紫铜与黄铜 suitable for brazing in brass and copper applications	
FB404L		适用于紫铜管与紫铜管，紫铜管与黄铜结构件，黄铜与黄铜，紫铜与铁管、铁管与铁管及碳钢的钎焊 suitable for brazing in copper、brass、carbom steel		

免酸洗助焊剂

Environmental No Pickling Flux

常规的焊粉焊膏钎剂通常为粉状或乳浊液，不可能均匀涂抹在工件表面，钎焊时通常会有钎焊残渣浪费。且涂抹过量的区域会有钎剂堆积且氧化，而涂抹不到的地方会保护不足被氧化，工件通常都需要酸洗。免酸洗助焊剂为均匀澄清透明液体（活性物质分布均匀，不会随着时间沉淀改变）。涂在工件表面，和药芯焊丝的优势一样，对钎剂的用量可以控制不过量，不浪费且环保。比药芯焊丝的优势是，保证工件流动性的同时，更能大范围保护工件表面不被氧化。而比气体助焊剂的优势在于，不仅能用于火焰钎焊，也可在高频钎焊得到广泛的应用，且活性更强。

The traditional brazing flux usually is powder or paste in form, It is impossible to brush the flux on workpiece evenly. Usually there are some residue on the work parts after brazing. If brushing too much flux, it will be easy to cause the flux accumulation and oxidation, and cause oxidation as lack of protective. Flux workpiece usually need acid pickling. Non-pickling flux is colorless and transparent liquid(active substance distribute uniformity, even by the time gone without precipitation and change of flux character), Non-pickling flux have the same advantage as cored wire which can control the suitable dosage flux on the workpiece, no waste and environment protective. Compared with the cored wire, non-pickling flux's advantage is to ensure the flowability and protect the work parts from oxidation in large area. Compared with VAPOGASFLUX , it is not only used in flame brazing but also used in frequency induction widely, and it has higher performance.

焊接效果对比图焊粉和免酸洗对比



焊粉（偏黑）

免酸洗（美观）

包装方式 Standard Packaging

可选容量：20L,10L,4L
20L,10L,4L Plastic Drum



环保免酸洗助焊剂

型号 Model	性能特点 Performance	应用范围 Range of application
FB501L	无腐蚀性 NO corrosive	紫铜、黄铜、碳钢的火焰和高频钎焊 Suitable for both high frequency induction brazing and flame brazing in copper, brass and carbon steel.
FB502L	腐蚀性钎剂，残渣易水洗 Corrosive flux, easy to wash with warm water	紫铜、黄铜的火焰和高频钎焊 Suitable for both high frequency induction brazing and flame brazing in copper, brass
FB503L	轻微腐蚀性钎剂，残渣易水洗 Light corrosive flux, easy to wash with warm water	紫铜、黄铜、碳钢、不锈钢的火焰和高频钎焊 Suitable for both high frequency induction brazing and flame brazing in copper, brass, carbon steel, stainless steel

钎剂

Brazing Flux



环保型银钎剂（不含硼酸） without any boric acid

型号 Model	形态 Nature	钎焊母料 Base Metal	钎料 Filler Metal	温度℃ Application Temperature	应用 Application	腐蚀性 Corrosive
FB501S	粉状 Corrosive	黄铜, 紫铜, 钢, 不锈钢 Brass, Copper, Steel, Stainless steel	铜/银钎料 Cu/Ag	550~800	残渣易水洗 Easy to wash with warm water, extended heating	Yes
FB501P	膏状 Corrosive	黄铜, 紫铜, 钢, 不锈钢 Brass, Copper, Steel, Stainless steel	铜/银钎料 Cu/Ag	550~800	残渣易水洗 Easy to wash with warm water, extended heating	Yes

银钎剂 Silver brazing flux

型号 Model	形态 Nature	钎焊母料 Base Metal	钎料 Filler Metal	温度℃ Application Temperature	应用 Application	腐蚀性 Corrosive
FB104S	粉状 Powder	钢, 黄铜, 铸铁, 铜, 不锈钢 Steel, Brass, Cast iron, copper, stainless steel	铜/银钎料 Cu/Ag	600~850	残渣易水洗 Easy to wash with warm water, extended heating	Yes
FB104P	膏状 Paste	钢, 黄铜, 铸铁, 铜, 不锈钢 Steel, Brass, Cast iron, copper, stainless steel	铜/银钎料 Cu/Ag	600~800	残渣易水洗 Easy to wash with warm water, extended heating	Yes
FB102P	膏状 Paste	钢, 黄铜, 铸铁, 铜, 不锈钢 Steel, Brass, Cast iron, copper, stainless steel	铜/银钎料, 黄铜钎料 Cu/Ag Cu/Zn	550~800	适用于自动点膏机 Automatic Machine Distribution	Yes
FB103P	膏状 Dispensable paste	钢/碳化钨(硬质合金) Steel/Tungsten carbide	铜/银钎料 Cu/Ag	600~900	适用于自动点膏机 Automatic Machine Distribution	Yes
FB103S	粉状 Powder	碳化钨(硬质合金) Hard steel, carbide of tungsten	铜/银钎料 Cu/Ag	600~900	火焰钎焊, 残渣易水洗 Flame brazing, easy to wash with warm water	Yes

铜钎剂 Cu brazing Flux

型号 Model	形态 Nature	钎焊母料 Base Metal	温度℃ Application Temperature	应用 Application	腐蚀性 Corrosive
FB301S	粉状 Powder	紫铜、黄铜、碳钢 Copper, Brass, Carbon steel	800~1150	火焰钎焊 Flame brazing	No

铝钎剂 Al-Al Brazing Flux

型号 Model	形态 Nature	钎焊母料 Base Metal	钎料 Filler Metal	温度℃ Application Temperature	应用 Application	腐蚀性 Corrosive
FB201S	粉状 Powder	铝合金 Aluminium alloys	铝硅钎料 Al/Si	550~650	火焰钎焊 Flame brazing	Yes
FB202S	粉状 Powder	含镁铝合金 Aluminium alloys Al/Mg	铝硅钎料 Al/Si	560~610	连续氮气保护钎焊 CAB flux	No
FB203S	粉状 Powder	含镁铝合金 Aluminium alloys Al/Mg	铝硅钎料 Al/Si	550~650	火焰钎焊 Flame brazing	Yes

铜铝钎剂 Cu-Al Brazing Flux

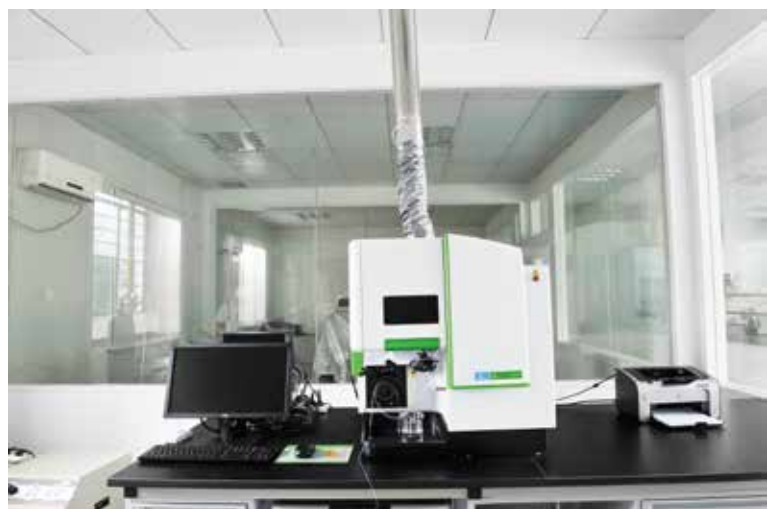
型号 Model	形态 Nature	钎焊母料 Base Metal	温度℃ Application Temperature	应用 Application	腐蚀性 Corrosive
FS312C	膏状 Paste	Zn、Al、其他 Zn, Al, other	450~480	火焰钎焊 Flame brazing	No

检测设备

Testing equipment



(实验室)



(ICP-OES)



(自动转塔显微硬度计)



(金相显微镜)



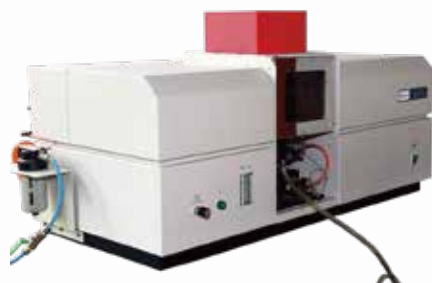
(金相显微镜)



(气相色谱仪)



(微机差热仪)



(原子吸收分光光度计)



(能量色散型X射线荧光机)

XINRUI 钎焊管家一站式钎焊解决方案与服务:

XINRUI All-In-One Brazing Solution and services:

钎焊材料+钎焊机器+钎焊小装备+钎焊工具+钎焊技术工艺支持。

Brazing material + Brazing machine + Small brazing equipment+Brazing tools +Brazing technology support.

钎焊材料: 铜铝、铝铝钎焊材料系列; 银基、铜基钎料系列; 助焊剂系列。

Brazing material: brazing material for copper to aluminum and aluminum alloy; silver base, copper base series; flux series.



- A** 钎焊机器类
Brazing Machine Series
- A1** 直线式焊机
Conveyor Type Brazing Machine
- A2** G型焊机
G Type Brazing Machine
- A3** 工位式焊机
Station Type Brazing Machine
- A4** 机器人焊机
Robot Brazing Machine
- A5** 手工焊台
Manual Brazing Rotate Table

- B** 钎焊小装备类
Small Brazing Equipment Series
- B1** 点火器系列
Gas Saver
- B2** 送丝机
Digital Feeder Device
- B3** 焊剂发生器系列
Flux Vaporizer
- B4** 智能流量控制器
FLOTRON

- C** 钎焊工具类
Brazing Tools Series
- C1** 汇流排系统(减压器、汇流排切换系统可选)
Bus-bar System (pressure reducer, bus switching system is optional)
- C2** 气体终端箱
Gas Terminal Box
- C3** 减压器类
Pressure Reducer
- C4** 安全软管
Safety Hose Reels
- C5** 焊炬
Brazing Torch
- C6** 回火防止器
Tempering Preventive Device
- C7** 单向阀
Non-return Valves
- C8** 阻火辅助器
Prevent Tempering
- C9** 火嘴
Fire Mouth

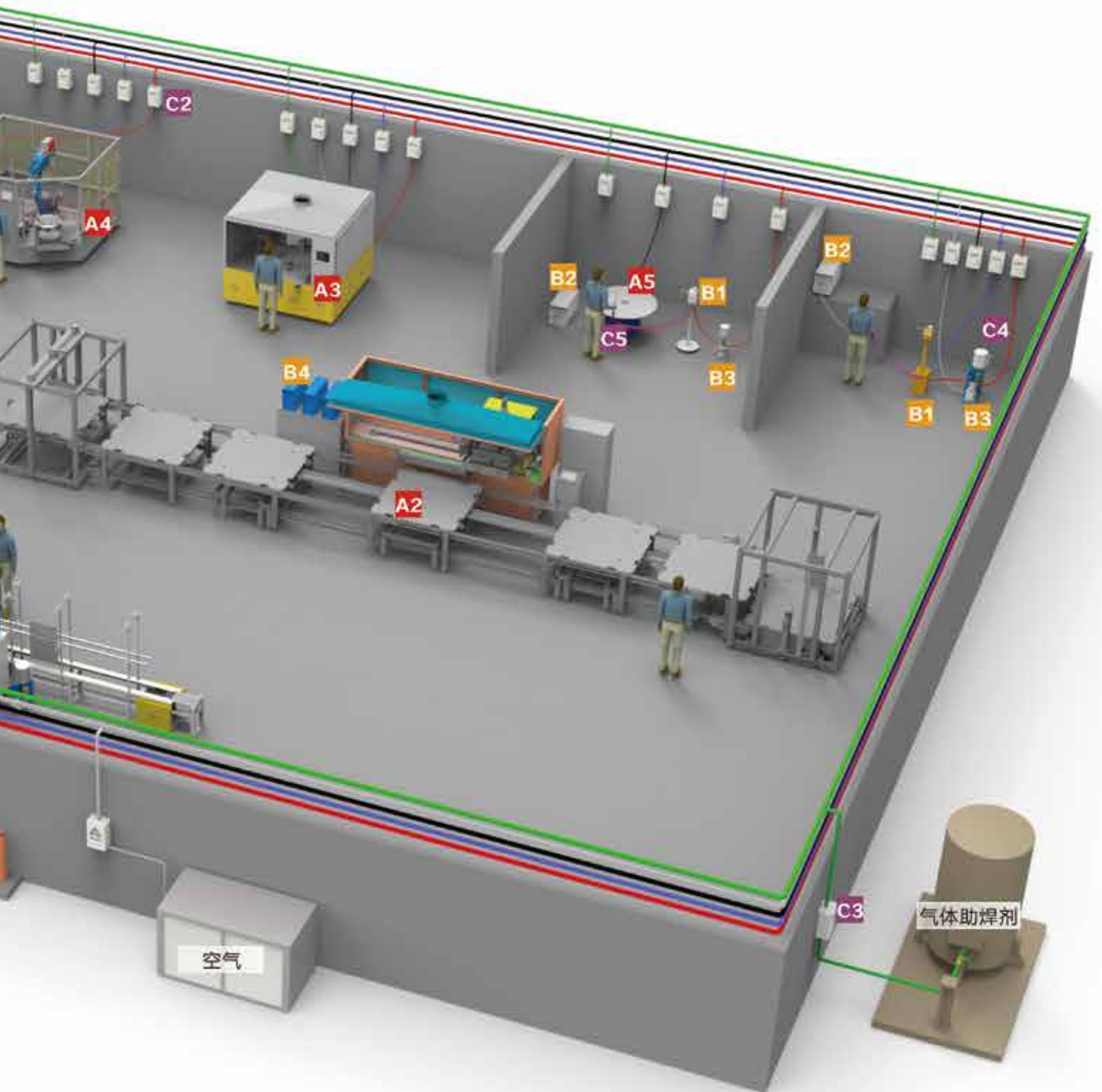


★钎焊材料、钎焊机器、钎焊小装备、钎焊工具都可根据客户需求柔性开发。

Brazing material, brazing machine, brazing equipment, brazing tools can be flexible to develop and produce according to customer's requirement.

XINRUI 钎焊管家提供一站式钎焊工艺技术支持与服务。

XINRUI All-In-One Brazing Solution provides one-stop brazing process technical support and services



浙江新锐焊接科技股份有限公司
ZHEJIANG XINRUI BRAZING TECHNOLOGY CO.LTD

公司: 浙江省绍兴市经济开发区经发路199号; 工厂: 浙江省绍兴市高新技术产业园瑞新路8号
Company: No. 199 Jingfa Road Shengzhou Zhejiang Economic Development Zone
Factory: No.8 Ruixin Road Shengzhou Zhejiang High-Tech Industries Development Zone
Tel: +86-575-83833333 Fax: +86-575-83835788 Web: www.xinruigroup.com

智能钎焊设备

Intelligent Brazing Machine

智能钎焊设备是由新锐科技控股的子公司嵊州新锐大进焊接设备有限公司设计开发和制造生产。新锐大进是日本大进工业研究所和浙江新锐焊接科技股份有限公司在2011年合资成立，是一家专业从事火焰智能焊接设备的集研究、开发、生产、销售为一体的高科技企业，传承了日本大进工业研究所在钎焊领域50多年累积的经验。

It is designed developed and manufactured by XINRUI DAISHIN, which is controlled by XINRUI. XINRUI DAISHIN hold the most advanced brazing technology and more than 50 years research achievement from Japan's DAISHIN INDUSTRIAL CO.,LTD



转盘式焊机
Table Type Brazing Machine



工位式定点焊机
Station Type Fixed Point Brazing Machine



流水线式焊机
Conveyor Type Brazing Machine



全铝两器专用定点焊机
Aluminum Brazing Machine



G/C型商用焊机
G/C Type Brazing Machine For Commercial

DXT钎焊控制系统

DAISHIN Brazing Control System

智能钎焊设备的三大核心技术

Three core technologies of intelligent brazing machine

1. 柔性送丝装置 Soft Feeder

送丝时，防止因焊材预热不足而产生的融化不良以及相对工件而言的焊材突起。将焊材的溶解对应到最合适的状态。

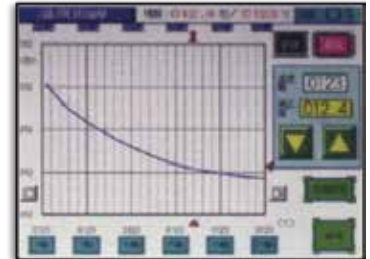
If the brazing wire does not melt, soft feeder pull the brazing wire back. When it does start melting, they proceed to feed the brazing wire to braze the joint. Amount of brazing material save stability of supply control encoder.



2. OHS系统（最佳加热时间校正）OHS System(Optimum Heating System)

可测定夹具和工件的温度，自动调整加热时间的功能。将（OHS）运用到钎焊设备上，可提高设备的生产性能和减少产品的不良率。

OHS measure temperature of jig or work, automatically adjust heating time including the brazing machine. To conspire to making progress with production and less fraction defective.



3. 智能流量控制器 FLOTRON



可以设定预热、加热时燃气和氧气的流量，即使供应给压力多少变动，质量流量器也会自动控制，维持常规的设定流量。燃气和氧气的混合比率可以自由的设定。可以保存每种工件各自最佳的加热条件。不管任何时候由谁来操控，只要还原设定数据，就可以保证最稳定的焊接。另外，可以设定30种加热条件，通过触摸屏画面的操作，流量设定和工作的流量阶段操作可以简单的一键到位。

If setting for of gas and oxygen before heating process, continue to stable gas and oxygen flow rate however uneven pressure input. Gas mixture ratio set up is very easy to handle. Date memory functions can keep various different work piece, and we guarantee stable brazing works. 30 different gas mixture ratios and gas flow rates can be memorized, and simply one touch to operate setting flow rate by graphic operation terminal.

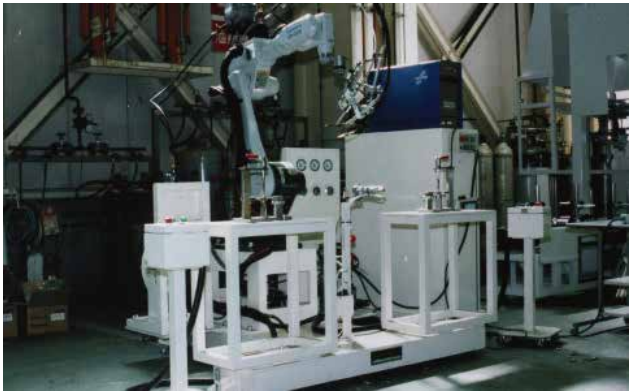


机器人焊机

Robot Brazing Machine

该类焊机为可根据客户单独定制，通过在各种非标焊机上配置机器人，能完成复杂工件多个不同平面上的点焊接。适用于各种非标铜铝件。使焊环融化并均匀填塞到铜铝件的缝隙，也可以通过自动送丝来实现全自动焊接。燃气，氧气，氮气，通过大进智能流量控制FLOTRON DF11K/质量流量控制器MFC实现对气体流量的精确控制，确保焊接温度稳定及质量可靠。

This kind of brazing machine can be customized, through all kinds of non-standard brazing machine configuration on the robot, which can accomplish a complex workpiece of different points in the plane of the brazing. Suitable for all kinds of non-standard copper and aluminum. Make brazing ring melted, and filled the gap of the aluminum tube, realize the automatic brazing of aluminum. Gas, air, nitrogen through Daishin intelligent flow control device FLOTRON DF-11K/mass flow controller MFC realize the precise control of gas flow, to ensure the quality of brazing temperature stable and reliable.



手工钎焊转台

Manual brazing rotate table

- ①气体保护装置，在焊接的过程中保护工件不被氧化；
- ②气体流量控制器，可按工艺要求精准设定流量；
- ③设计有工具放置区，使现场5S更规范；

- 1.The gas protection device protects the workpiece from oxidation during brazing.
- 2.The gas flow controller can accurately set the flow according to the technological requirements.
- 3.A tool placement area is designed to make the site more standardized in 5S.



数字送丝机

Digital feeder device

- ①可设定焊接工件需要的焊丝长度，提高焊缝填料一致性
- ②可设定焊接工件需要的预热时间，降低不良率
- ③减少焊料浪费
- ④降低烫伤风险

1. Able to set the brazing wire's length for brazing work, improve consistency of weld fillers.
2. Able to set the preheating time needed for brazing work, in order to reduce the rejection rate.
3. Reduce the waste of brazing material.
4. Reduce scalding risk



智能流量控制器

FLOTRON

DF-70

低成本控制器，实现强、弱火2种火焰转换
Low Cost Model With Setting Strong and Weak Flame



DF-11K

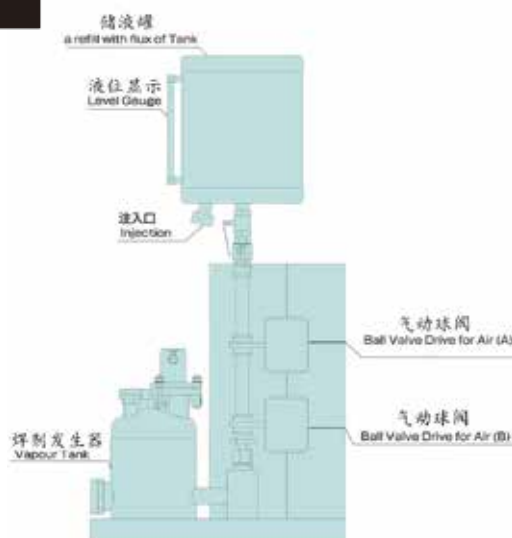
用于自动钎焊设备
For Automatic Brazing Machine

自动加液装置

AUTO-TANK

- ①提供稳定助焊剂流量的发生器
- ②维持助焊剂在容器内一定的液面，确保稳定的助焊剂流量
- ③能防止容器内的助焊剂老化、劣化。

1. Supply same amount from spare tank, which used.
2. By keeping the surface level of the tank, the stable flux occurrence.
3. The function, keep the surface level prevent the deterioration of the flux

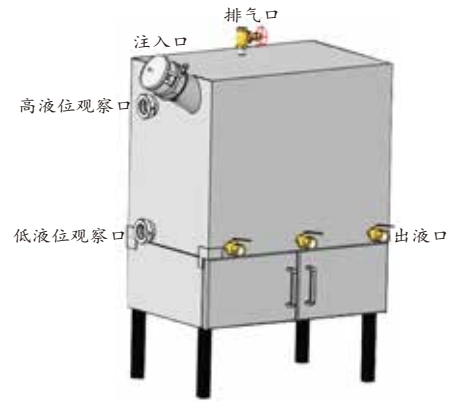


手动助焊剂加液台

Manual flux adding table

- ① 安全、环保，提高灌装效率；
- ② 实现3个储罐同时灌装；
- ③ 与本公司4L储液罐配合使用，助焊剂灌满时能自动停止加液；
- ④ 容量为100L。

1. Safe, environmentally-friendly, high filling efficiency
2. Able to fill 3 tanks at the same time
3. Used with our 4L liquid storage tank, the liquid-charge can be stopped automatically when it is filled.
4. The Capacity is 100L



焊剂发生器

Flux Vaporizer

焊剂发生器是一种可以将气体助焊剂（简称助焊剂）以蒸汽的形式加入到燃气（乙炔、液化石油、丙烷等）中的设备，取代过去在火焰钎焊过程中要手工添加硼砂的麻烦，使钎焊工艺大大简化。

Flux vaporizer is an equipment, which can add the gas flux (flux) in the form of steam into the gases (acetylene, liquefied petroleum gas, propane, etc.) it successfully avoids the manually adding borax to greatly simplify the brazing process.



燃气节约装置

GAS SAVER

品质优良: 燃气节约装置采用日本大进工业研究所技术;

安全性高: ①关气时, 自动实现先关燃气、后关氧气, 降低回火几率; ②当点火失败时, 能自动切断气流; ③当焊炬意外脱落时, 能自动切断气流;

操作简单: 操作面板只有一个电源开关和一个火焰检测开关, 用过一次便能熟练掌握;

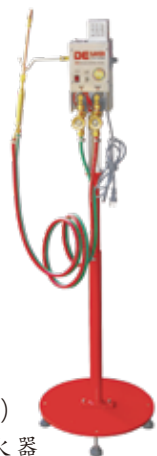
节能环保: 低耗电的设计; 焊炬频繁使用场合, 能有效降低焊炬无效燃烧时间, 节约气体, 降低成本。

High Quality: Using the technology of Japanese DAISHIN INDUSTRIAL CO.,LTD

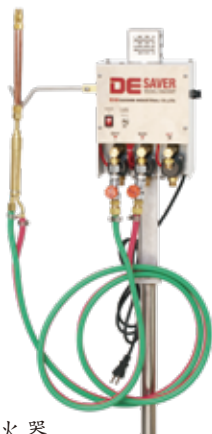
Hugh security: ①When the operation is off, the gas is shut off first automatically, and then, the oxygen; ②In the case of ignition failure, the gas is cut off automatically; ③In the case of torch's detachment, the gas is cut off automatically.

Easy operation: operating layout contains only one power switch and a flame detection switch

Ebergy saving and environmental protection; the design of low power consumption which is easy to master, - can effectively reduce the time of brazing torch's invalid burning, so as to save gas and reduce costs.



(N500)
电火花点火器
(Spark Igniter)



(N500P)
加氮控制式点火器
(Additional nitrogen control)

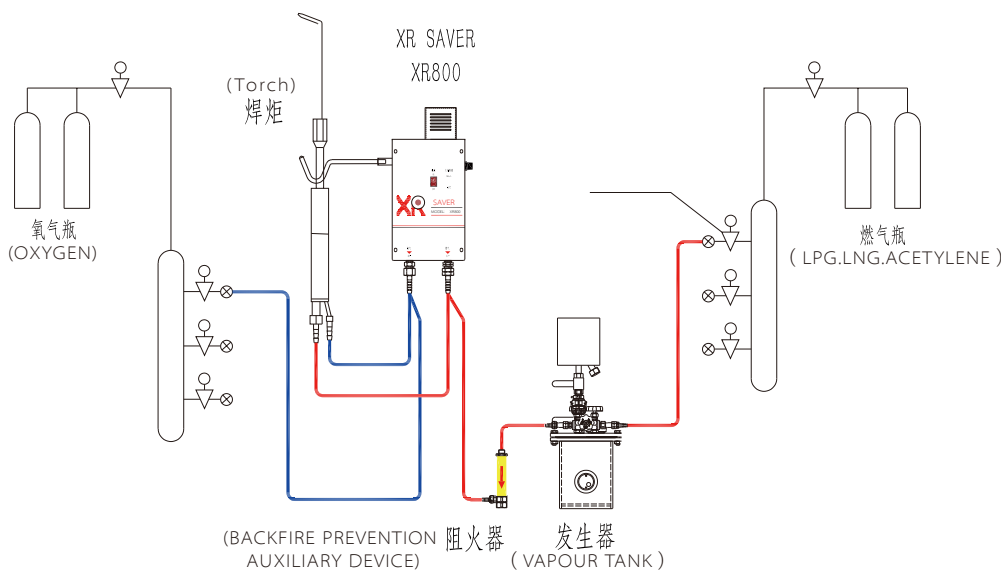


(DE-2500)
强弱火切换式点火器
(Setting strong and weak flame with flow control)



(XR-800)
电火花点火器
(Spark Igniter)

燃气节约装置与焊剂发生器配套适用安装示意图 Installation diagram



燃气节约装置附件

Accessorg of the Gas Saver

焊炬轻便，减轻操作人员长时间焊接作业的疲劳；适用于燃气节约装置配套使用

The torch is light, Reduce operator fatigue of long time brazing operation, correspondence to Gas Saver



Very light
重量轻
(300g)

名称 Name	焊枪 Torch	火嘴 Nozzle	重量 Weight
燃气节约装置套装 Gas saver set	单头 single head	M6	300g
	双头 pacble head	M8	

本支架适用于安装燃气节约装置，作业高度可进行调整

Correspondence to, Ajust height



(燃气节约装置支架)
Gas saver stand

钎焊工具类

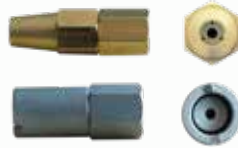
Gas Saver Set



(单向阀)



(回火防止器)



(火嘴)



(焊炬)



(减压阀)



(调节阀)



(焊接胶管)



(助焊剂胶管)



(防止回火辅助器)

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12小时内答复（工作日8:00-20:00）

48小时内到达客户现场（休息日、法定节假日除外）

全国销售咨询热线：0575-8383-3333

周一至周五 8:00-17:00（休息日、法定节假日除外）

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Monday to Friday 8:00-17:00 (except weekends, statutory holidays)

本目录刊载的型号和规格会因产品更新而变化，恕不另行通知

本目录经过多次校对，以求准确，但仅供参考之用，一切以实物及产品铭牌和说明书为准

The models and specifications in this catalogue will be changed because of product updates, without prior notice. This catalogue has been proofread many times for accuracy, but only for reference, please refer to nameplates and instructions and the products.



新锐科技客户

The Customer



使命 Xinrui Mission:

追求全体员工物质与精神两方面幸福，以设计与创新为驱动，实现自己、家人、公司、客户与社会价值。
Driven by design and innovation to realize your own, family, company, customer and social values.

愿景 Xinrui Vision:

我们每天坚持不懈努力，让新锐成为钎焊领域全球第一品牌

We work hard every day to make Xinrui to be the No. 1 brazing brand of the world.

AUX
奥克斯空调

Parker

HITACHI
Inspire the Next

DAIKIN

Haier
海尔

FUJITSU

TOSHIBA
Leading Innovation >>>
领先·创新

MITSUBISHI ELECTRIC
Changes for the Better

GREE 格力

Hisense

