




Jovy Systems[®]

Jovysystems Rework and Repair Products





Challenging, yet achievable

Meeting your needs gives a real feeling of achievement


When Jovysystems was established in the year 2006 we recognized the trust and confidence could be placed in us by our commitment towards the international market.

Jovysystems is dedicated to serve all technicians all over the world with their different and fast growing needs. These requirements should be realized and achieved through triangle of innovation, high quality and best customer services that make us consider our customers as partners in the way of our seeking to lead the Rework and Repair Market.

Your aspirations are

OUR TARGET

Our R&D is inspired everyday by our customers' dreams and motivated to realize them. This is delivered in conjunction with our distributors network is extended day after day. Since customers are our top priority, we offer superb after sales service and online support (24/7) by offering regular technical training and workshops.



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Combination between best quality,
reasonable cost and cooperative
after sales service is the
ideal process

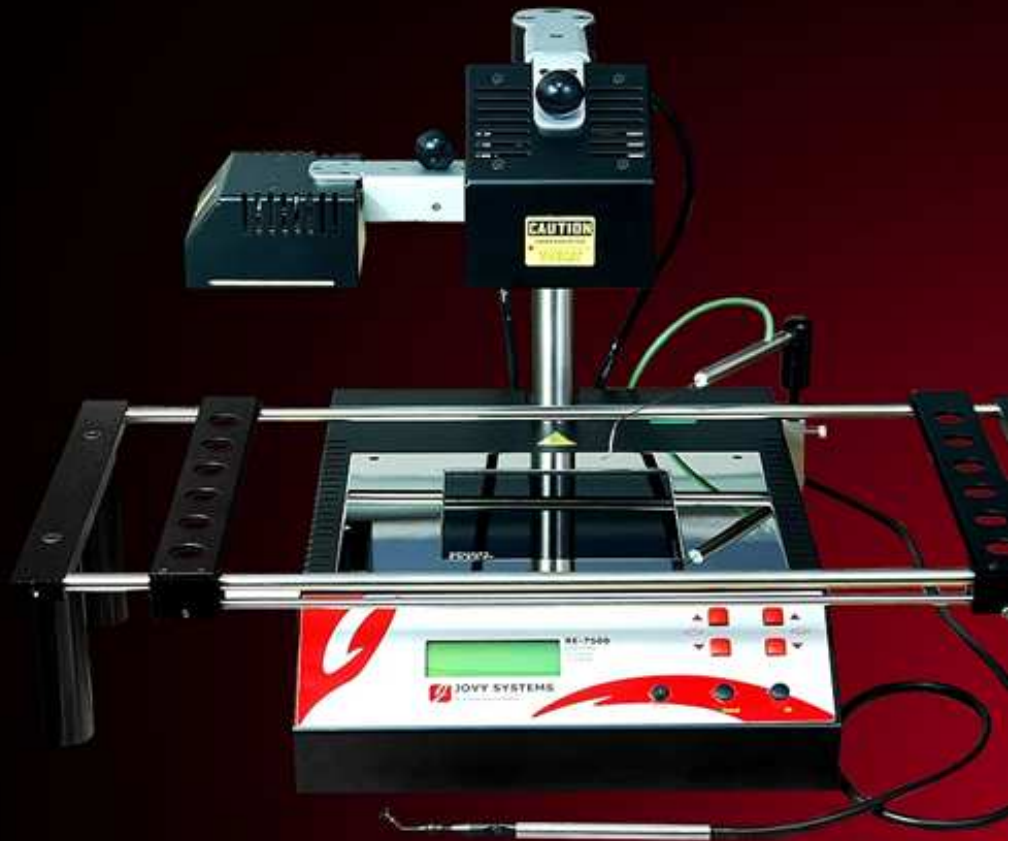
Eco *friendly* PRODUCTS

We are very keen to Stay up to date with the latest Eco friendly concepts which show urgent need to more Eco friendly products guaranty for you safety, that's why we preferred the lead-free and IR Technology that represent real protection for the components you need to repair. In this spirit, you will find that our products are CE declared after



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JOVY RE-7500

as optimal solution for your
Rework business

The Rework Station which could achieve great success by the testimony of the efficient professional technicians, it is the wise choice. Simply, Quality and affordability are epitomized in this station to be the ideal set for all kind of SMD Reballing, Repair, and Reflow. This is your chance to modernize your facilities.

It is built to last with German Dark Infrared Technology with Chinese manufacturing expertise for the global market to be used in different fields such as:

- Medium & Large Scale Service Centers.
- Mobile and radio systems devices.
- Cellular phones, PDAs, Handhelds, notebooks & Motherboards.
- LAN devices, Network Nodes and Military communication Equipments.
- Portable medical equipment.



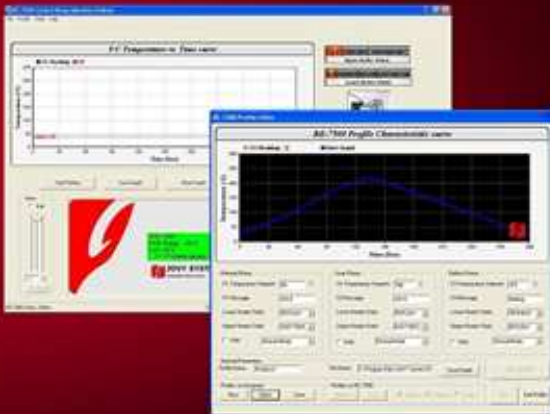
RE-7500 is CE Certified



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Let's *enjoy* RE-7500 AMAZING FEATURE



Profile Tutor Software provides fast and easy, first run, automatic thermal profile of any device with on-the-fly capability

PLEASE NOTE

The System comes complete with smooth and large appealing X-Y Table, in order to utilize ultra-precise positioning with larger mounting area. Which means the PCB can be positioned accurately to enable efficient reworking of electronic PCB assemblies.

Max PCB Size 350mm x 450mm

Part Number JV-002

Flexible uses for all different kinds of Components like SMD, BGA, CBGA, CDGA, CSP, GFN, MLF, PGA and All Epoxy undefined μ BGA . etc .

Recommended for reworking All Plastic parts, PTH, Sockets, Connectors and Metal Shields .

Complete reworking Processes (Pre-Heating, Soak, Re-Flow & cooling) stages are achieved for an accurate and standard reworking process .

IR with no effect on adjacent Component .

Real time temperature monitoring and saved profiles make it is not easy to affect your components negatively by over heating.

Internal Picking System for Safe and Stable Removal of the ICs.

Manual or automatic (profiled) cooling system to achieve complete and Standard & cooling stage process for PCBs .

Guaranteed homogeneous and safe uniform heat distribution .

Programmable, Automated & dynamic control for the RE-7500 heaters .

Guaranteed delivery of the heat energy at the precise time and location .

Freely programmable temperature profiles .

Real time process monitor on your PC or Laptop .

Avoiding Hot and Cold spots occurrence with no nozzles focus hoods usage .

Ideal Tool for re balling .

Positioning during rework process is applicable by using laser pointer on PCB .

Precise and smooth running X-Y table included with the package .

Easy & Friendly operation Via Automatic, Manual or PC Modes .

Ready for sophisticated future technologies .

One Year Warranty is applied .



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COBRA LED LIGHT

New smart "Light Source"

We have always the challenge to offer you the best methods which serve your Repair and Rework process. Finally we bring you our new light source which represent the latest update with its high effectiveness, wonderful durability and extraordinary price. Through the flexible movement you can use it in all of your applications and install it in different fixations. Moreover, it is designed to be fitted with the XY Table or to the working bench with our special C-Clamp.

Jovy LED-Light Source provides powerful illumination Flux, and its arm length allows free workspace for user which suits any additional inspection instruments, magnifying Lens or Video microscopes or rework tools such as tweezers or components picker.



For *Reliability* of your monitoring
easy real visual inspection

Product code **JV-L360**



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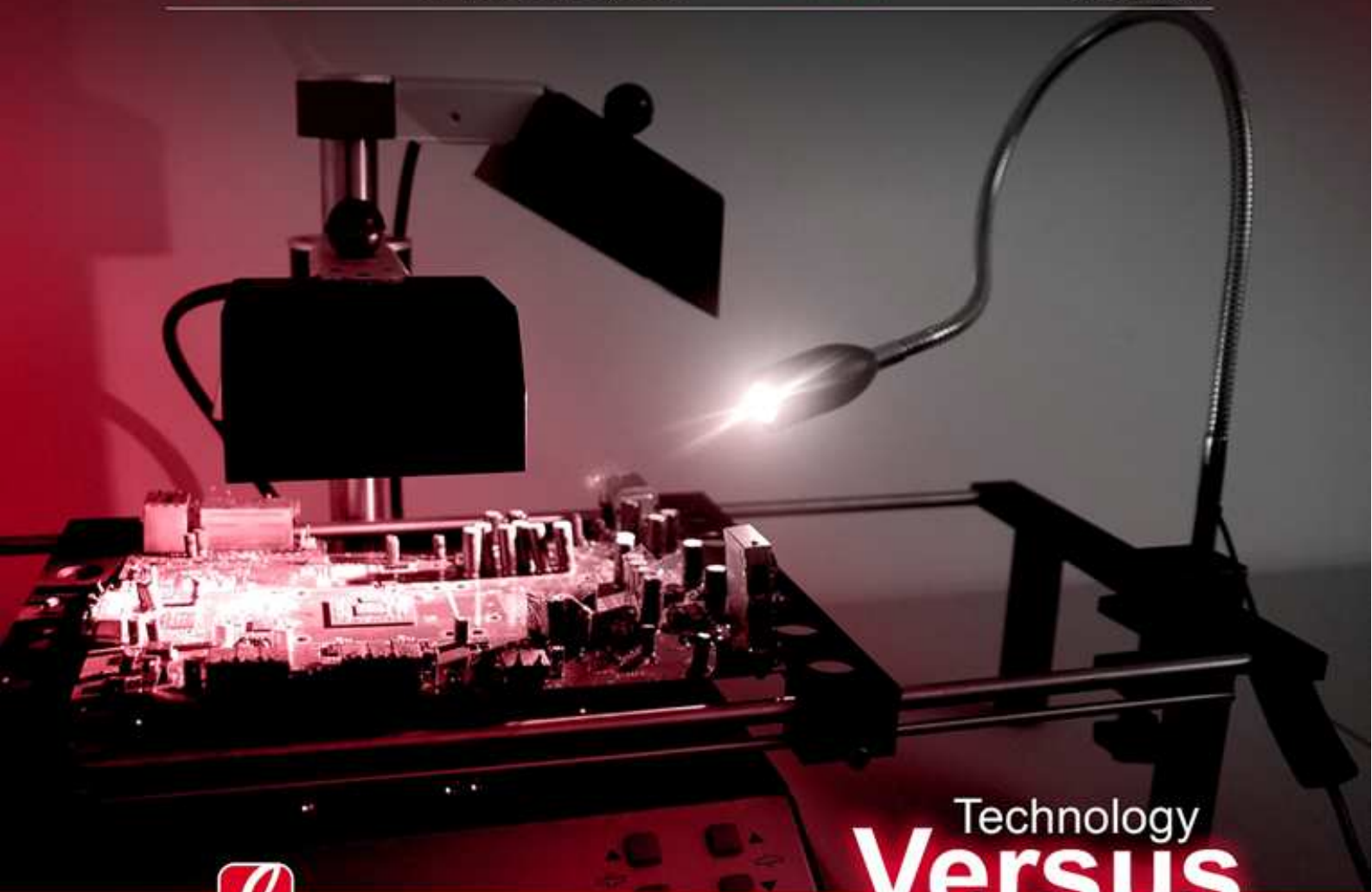
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PRODUCT CONTENTS

C-Clamp	Black painted Aluminum
Flexible Arm	Outer enclosure: Chrome plated brass rings Internal part: steel spring
Led module body	Black painted Aluminum

TECHNICAL SPECIFICATION

Emitted Light Color	Natural white	Color temperature	6000k±300k
Power Consumption	3W	Working temperature	-10°C-55°C
Luminous flux	155±10 Lm	Body temperature	≤50°C
Input voltage	AC 100-240V, 50/60Hz	Life span	50000 hours



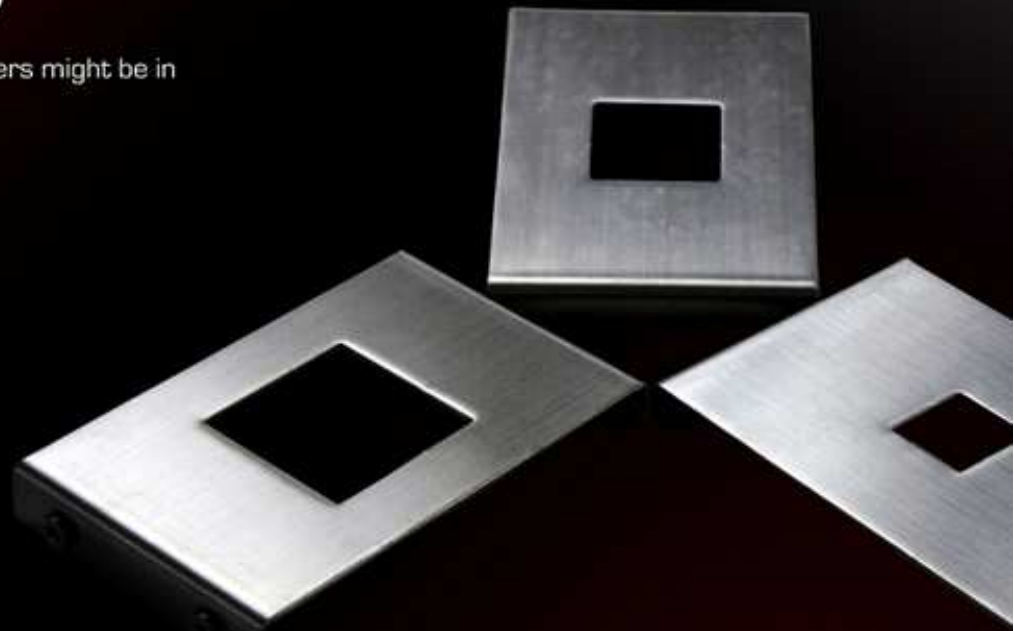
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ESSENTIAL ADD ONS

for RE-7500

For some especial applications, users might be in need to use one of our Add-Ons.



Reflectors

Reflectors are designed to control the heating image emitted from the upper heater by allowing the IR wave to travel in straight lines through specified window space and to reflect the extra wave and effect away from the spotted area.

They come in 3 different sizes and act as an aperture for the top heater. The correct size reflector will focus the IR heats which ultimately means better performance and fewer concerns about stray IR heat.

The three new reflectors are made of heavy gauge stainless and attach quickly and easily to underside of the RE-7500 top heater that saved a bit of time.

Even reflectors could be customized upon user need at any sizes not exceed 50 mm in width and in length and in any pattern.

Product code **JV-JRS**

Material

Stainless steel polished (Mirror-side) in one side and not polished in the other side.

Reflector type

In three different window sizes ,square shape pattern 20mm x 20mm , 30mm x 30mm and 40mm x 40mm.



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Supporters

Large & Small

PCB's warping, wrap and sag-lead free applications require high range of temperature for reworking or repair, it might be sag or wrap during the process and it is particularly noticeable especially in thin PCB 's such as those used in mobile applications, portable game consoles and thin mother boards for laptop. Now large and small PCB ' S can be handled without problems.

Jovy systems provides two kinds of supporters to be used with the X-Y table JV-002 which supports the PCB during the rework process ,to meet the widest range of board support applications and tooling requirements; it is recommended even in leaded applications and to protect the PCBs from damage during reworking with high temperature.

Large scale supporter JV-LSU to support the large boards from the bottom side.

Small scale supporter JV-SSU to hold the boards from any of its edges with the supporter hinge to be used for or small PCB.

Irregular PCB shapes could need both types of supporters together.

Still we have more and more to offer!



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Grasp your chance
Use Jovy *Advanced*

REBALLING PRODUCTS

Since all professional technicians resort to the reballing methodology as it offers them Cost effective, fast process and accurate results in repairing and reworking wide range of applications and as Re-balling solution mainly depends on Reballing kit ,Solder Balls and Solder paste, Jovy Systems designed these products in order to fulfill customers' satisfaction.



Reballing JIG & Stencils

JIG

Reballing Stand is made of aluminum ,has 4 IC holders, an adjustable hold-down screw for chips of various thickness and a slot for unused balls. Compatible with Jovy Systems JV-RMX, JV-RMP and JV-RKC reballing sets. Compatible with the upper preheater of Jovy Systems RE-7500 infrared BGA rework station and other soldering stations.

Product code **JV-JIG**



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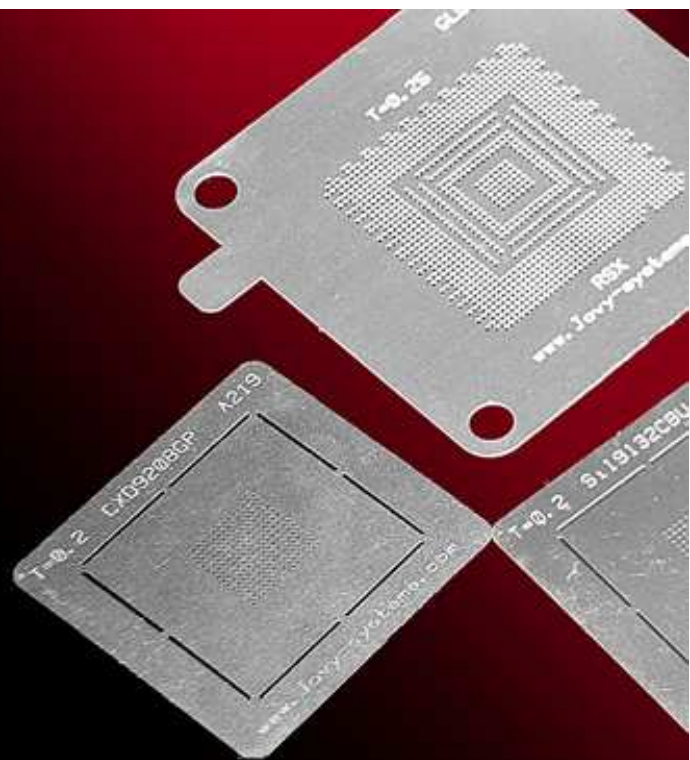
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Stencils

BGA stencils are made of stainless steel

Jovy systems launched different types of re-balling Stencils to cover different repair sectors, this includes:

- Mobile sector
- Game console sector (X-box & PS3)
- Laptop and PC repair sector



JV-RMS

Universal BGA rework stencils includes 12 stencils for repair most of the IC types, pitch sizes, ball matrix and patterns.

JV-RMX

BGA rework stencils for XBox 360 repair , includes the 4 dreamy stencils of X02047-012 ,GPU ,CPU and HYB18HS12321AF-13.

JV-RMP

BGA rework stencils for Sony PlayStation 3 repair , includes 3 rework stencils to reball RSX (Reality Synthesizer), CELL/B.E. (Cell Broadband Engine) and EE+GS PS2 (emotion engine & Graphic synthesizer) using BGA balls. Do not use a solder paste!

JV-RKC

Mobile phone Re-balling stencils includes 55 BGA stencils specially designed to repair components of most popular models, pallet spatula for BGA paste application and stencil holder.

• In spite of this awesome Collection of different stencils which provide you with easy and exact Re-Balling of any BGA ,Jovy systems also offers the service of producing a custom made stencil



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Jovy Typical SOLDER BALLS

As we are eager to make your Reballing experience as brilliant as it should be, Jovy Systems also produce a wide variety of high quality solder balls.

Our solder balls are provided in many alloys and manufactured to extremely tight tolerances with exceptionally clean surfaces. Moreover Jovy Solder balls are combining the advantages of high pureness, accurate diameters and moderate size; typically requested sizes range from 0.25mm to 0.76mm. Packed in plastic jars, each one includes 250'000 balls

As a matter of fact the ball attach process using the lead-free preform is the same as tin-lead, except the ball attach temperature profile is approximately 38° C higher. We offer the both types of solder balls the leaded and the lead free to be able to serve all kind of ICs.



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Leaded solder balls

SN 63 PB 37

Optimized to offer excellent wetting of leaded component, while the tin provides tensile strength in the solder joint, the lead provides ductility and greatly assists in dampening the temperature coefficient differences.

Lead free solder balls

SAC 305 SN 96.5 AG 3.0 CU 0.5

Ideal to offer excellent wetting of lead free component and board finishes.



Alloy		Diameter (mm)	Tolerances +/- mm	CPK	Spheres/ Bottle
Leaded 63Sn-37Pb Series Eutectic composition (183°C)	JV-PB76	0.760	0.020	≥1.33	250,000
	JV-PB65	0.650			
	JV-PB60	0.600			
	JV-PB55	0.550	0.015		
	JV-PB50	0.500			
	JV-PB45	0.450			
	JV-PB40	0.400	0.010		
	JV-PB35	0.350			
	JV-PB30	0.300			
JV-PB25	0.250				
Lead-Free 96.5Sn-3.5 Ag Series (221°C)	JV-LF65	0.650	0.020		
	JV-LF60	0.600			
	JV-LF55	0.500			
	JV-LF50	0.500	0.015		
	JV-LF45	0.450			
	JV-LF40	0.400			
	JV-LF35	0.300	0.010		
	JV-LF30	0.300			
	JV-LF25	0.250			



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PROTECTIVE TAPES

In attempt to help you avoid the thermal effects generated from the IR emitter, we have come to you with Jovy Protective Tapes which are customized to protect and isolate a specific area from the IR thermal effect. Herewith we have two types :

Product code **JV-K030**

Reflective tape

It reflects Infrared rays away to prevent the undesired areas to excess heating exposure.

Kapton tape

Ideal for wave soldering, insulating circuit boards, high temperature powder coating. It has a high dielectric strength. Kapton tape is supplied with silicone adhesive which does not leave any residue. It can hold temperature up to 500°F/260°C.



Product code **JV-R010、JV-R020、JV-R050**



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Reliable BGA GEL FLUX

Jovy systems BGA gel flux is a chemical cleaning agent which facilitates soldering process, suitable for many soldering applications. It works in welding by removing oxidation from the metals to be joined.

In soldering process, flux serves a threefold purpose: removes oxidation from the surfaces to be soldered; seals out air thus preventing further oxidation, and by facilitating amalgamation improves wetting characteristics of the liquid solder.



Only a minimum of flux is needed for good soldering results , the Flux JV-F000 series has resin-like rheological properties. It is completely halogen-free, guaranteeing long term reliability and has extreme good solder ability capabilities which can be applied by dispensing or with a brush. Besides, it is suitable for lead free soldering and it could be used as a tacky flux in Re-balling process. Jovy flux is highly recommended with its characteristics. Its state is viscous with yellow color, sweet odor and insoluble in water.

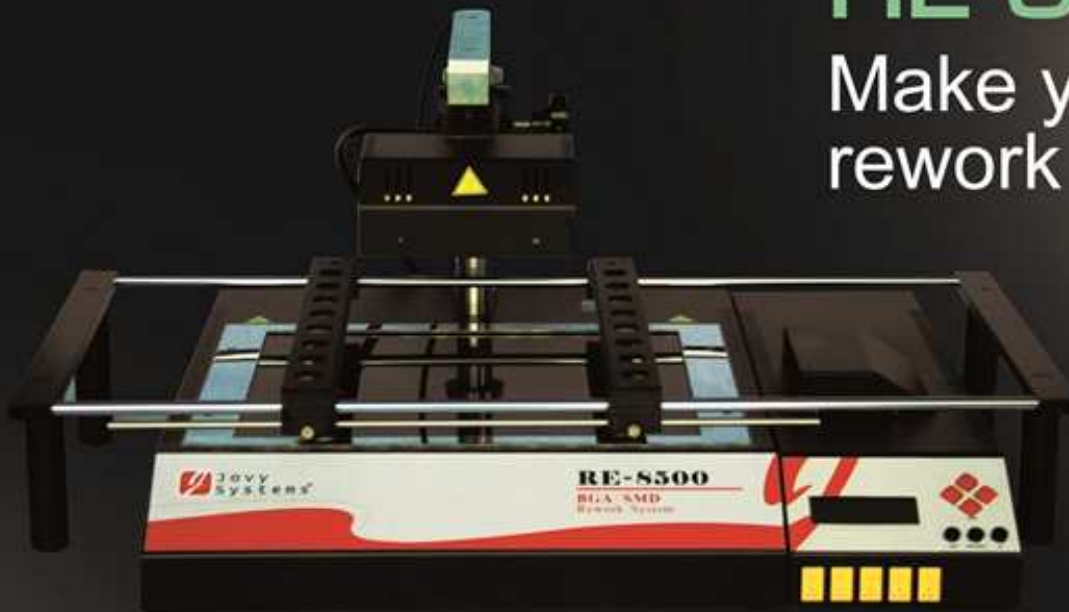


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RE-8500

Make your own
rework path



Features

- ▶ Multiple profiling options (standard lead-free, standard leaded and user define).
- ▶ Wide lower heating area (500mmx 450mm).
- ▶ Safe heating for any type of PCBs material and sizes.
- ▶ Storage up to 50 created profiles working in just one button press.
- ▶ Five channels thermocouple real time temperature reading.
- ▶ Process & profile analyzer for complete process study and control.
- ▶ Accurate temperature readings of +/- 2°C.
- ▶ Laser pointer is the guide to place the target precisely inside close loop heating range even it is done manually.
- ▶ Safety set point to avoid any process failure by human error.
- ▶ Alarm set point to increase the process safety and control.
- ▶ Dynamic PCB holder with adjustable X/Y axis to comply any PCB shapes.
- ▶ Equipped with many types of reflectors for focusing and spotting the upper heater heating area.
- ▶ User friendly with fully process software control.
- ▶ Password protection for data and settings lock.
- ▶ Powerful Pick-up vacuum pen for Safe and Stable Removal of the components.
- ▶ High ramp preheating and reflow up to 2.5°C/sec.
- ▶ Optimum heating with 3 controlled heating zones.
- ▶ Ideal application cooling phase in two methods optionally direct and indirect air flow, adjustable airflow power fan.
- ▶ All Windows multi lingual OS.



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SPECIFICATIONS

Dimensions L x W x H	480mm x 580mm x 360mm
Working height (PCB level)	255 mm +/- 10 mm, adjustable
Working depth	200 mm
Power supply	230 V AC, 50 Hz, 16 A
Installed heating power	3600 W
Top heater size	60 x 120 mm one zone
Bottom heater size	350 x 280 mm Two separate heating zones
Distance top heater to PCB	60 mm
Distance bottom heater to PCB	35 mm
Temperature sensor channels	5 x k-type thermocouple (potential free)
Maximum component size PL	80 x 60 mm (2.5 x 2.5 inch)
Control	via PC with Jovy control room USB 2.0
Operating Systems	Windows XP® or Windows Vista® Windows7®



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