

Solder Rework System



Machine: Solder Rework System

Make/Model: YIHUA 948-II

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Location: Machine Shop

Department: Mechanical Engineering

DO NOT use this machine unless you have been trained in its safe use and operation!

PPE and Potential Hazards



Safety Glasses
Required



Caution
Hot Tool



Caution
Fire Hazard



Fume
Hazard

Typical Operations

- Soldering and desoldering
- Reflow/rework
- Heating Heat-shrink tube

Select Specifications

	Soldering Iron	Vacuum Desoldering Iron	Hot Air Gun
Max. Power (W):	60	75	650
Working Temp. (C):	200 – 480	350 – 480	100 – 480

Controls and Tools





General Procedure

Training for each operation (soldering/desoldering/heat-shrink) is required prior to using this machine.

PRE-Operation:

- Prepare items for use, e.g., tape or mount components on the PCB and clamp PCB in holder or use “helping-hands.”
- If a fume extractor is available, move into position and turn on.

Operation:

- Turn on the desired tool.
- Use the temperature adjustment buttons to adjust temperature.

Operation	Typical Temperature
Soldering	345 C (650 F)
Desoldering	375 C (700 F)
Heat-shrink	220 C (430 F)

- Allow the tool to reach the set temperature.
- Perform desired operation (solder / desolder / rework / heat-shrink)

POST-Operation:

- At the end of the job please clean and tin the iron then return to the holder.
- Power off the tool.

Do's and Don'ts

Do:

- Use care handling irons!
- Place soldering iron on a stand when not in use
- Work from a schematic
- Take the time to properly layout your work
- Use “helping hands” to hold work

Don't:

- Do not use the solder system without training!
- Do not use the solder system without approval!
- Do not place hot iron on bench top!
- Do not use the soldering iron on heat-shrink tubing (use the hot air gun)!

Additional References

- [Techspray](#)
- [Adafruit](#)
- [Sparkfun](#)