JBC DMU 4 Tool Control Unit Instruction Manual

Contents

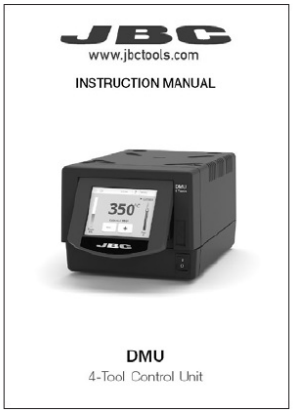
1 JBC DMU 4 Tool Control Unit
2 Packing List
3 Features
4 Default PIN: 0105Menu OptionsTroubleshooting
5 Operation
6 Maintenance
7 Safety
8 Specifications
9 Documents / Resources
9.1 References
10 Related Posts

JBC

JBC DMU 4 Tool Control Unit

Packing List

The following items are included:

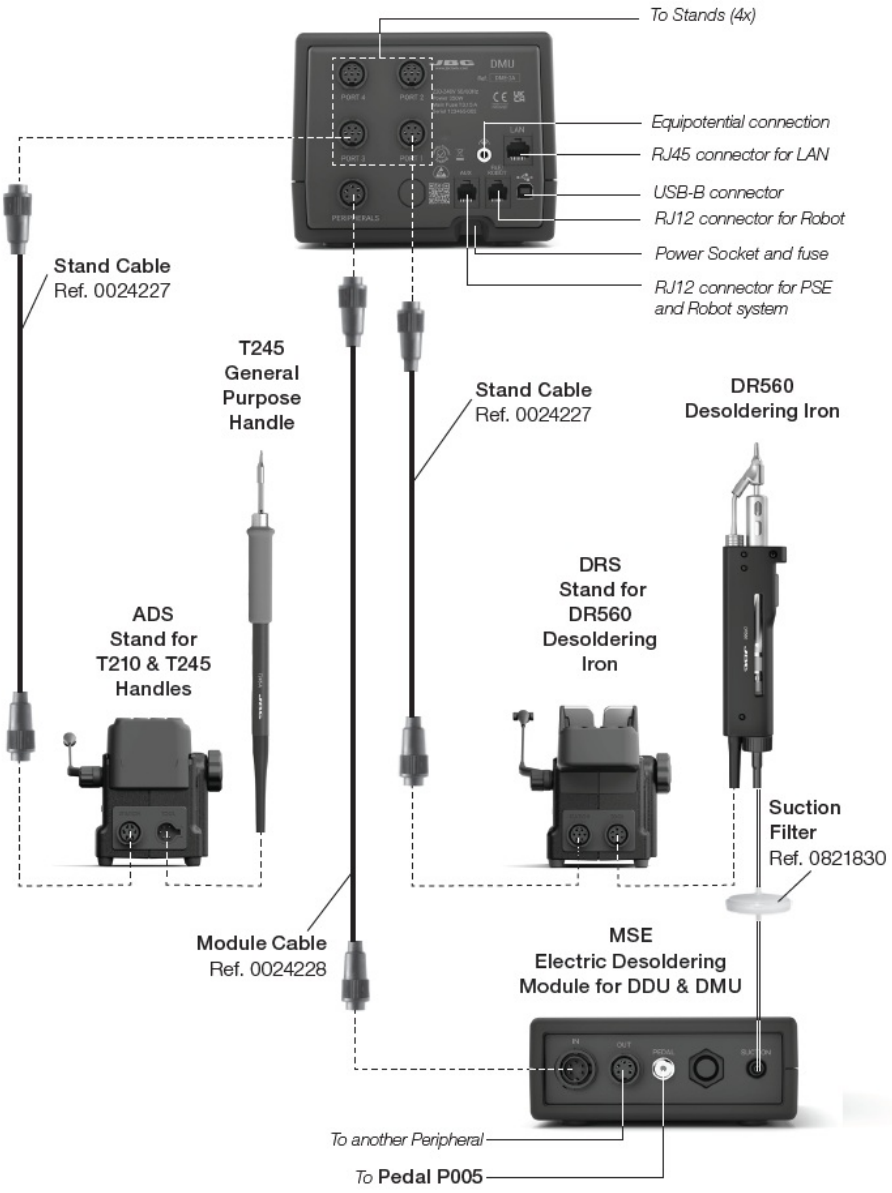


- **4-Tool**
  Control Unit ……. 1 unit
- **Power Cord …….. 1 unit**
  Ref. 0024077 (100V)
  0023717 (120V)
  0024080 (230V)
- **Manual ……. 1 unit**
  Ref. 0028713

Features

DMU work simultaneously with up to 4 tools and 1 module + 1 pedal for each tool (peripheral modul for each tool needed).

Connection Example



Compatibility

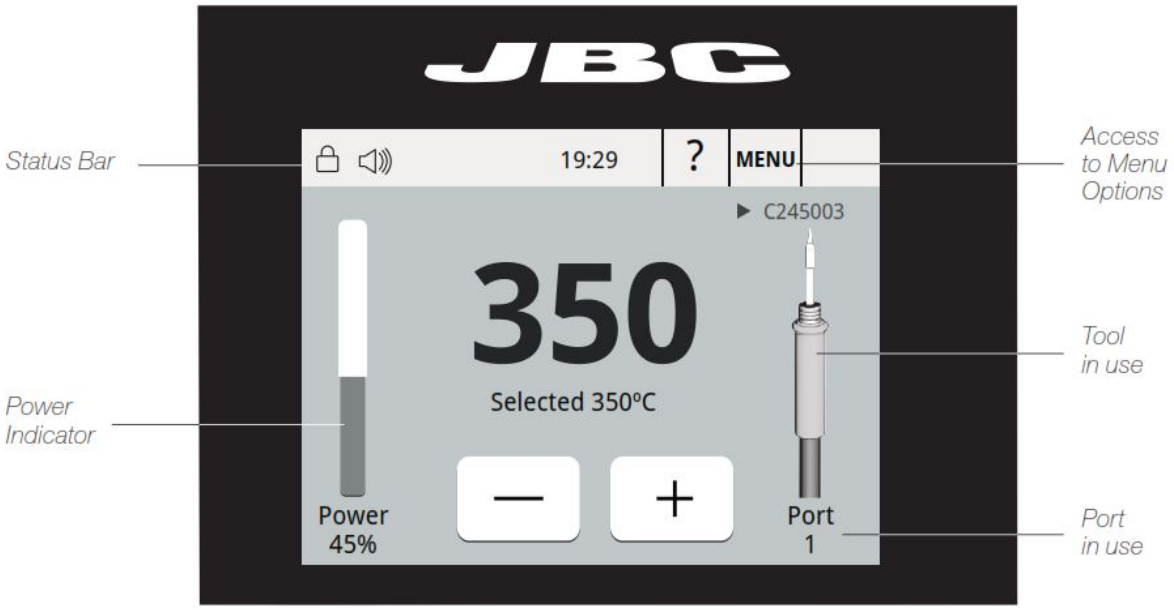
Select the equipment that best suit your soldering or desoldering needs.

Modular System				Peripherals		
Control Unit	Stand	Tool	Cartridge Range	MSE / MVE	MNE	P405
DMU	ADS	T210	C210			●
		T245	C245			●
		T470				●
	DNS	T210N	C210		●	●
		T245N	C245		●	●
	APS	AP250	C250			●
	AMS	AM120	C120			●
		PA120				●
	ATS	AT420	C420			●
	HTS	HT420				●
	DSS	DS360	C360	●		●
	DRS	DR560	C560	●		●

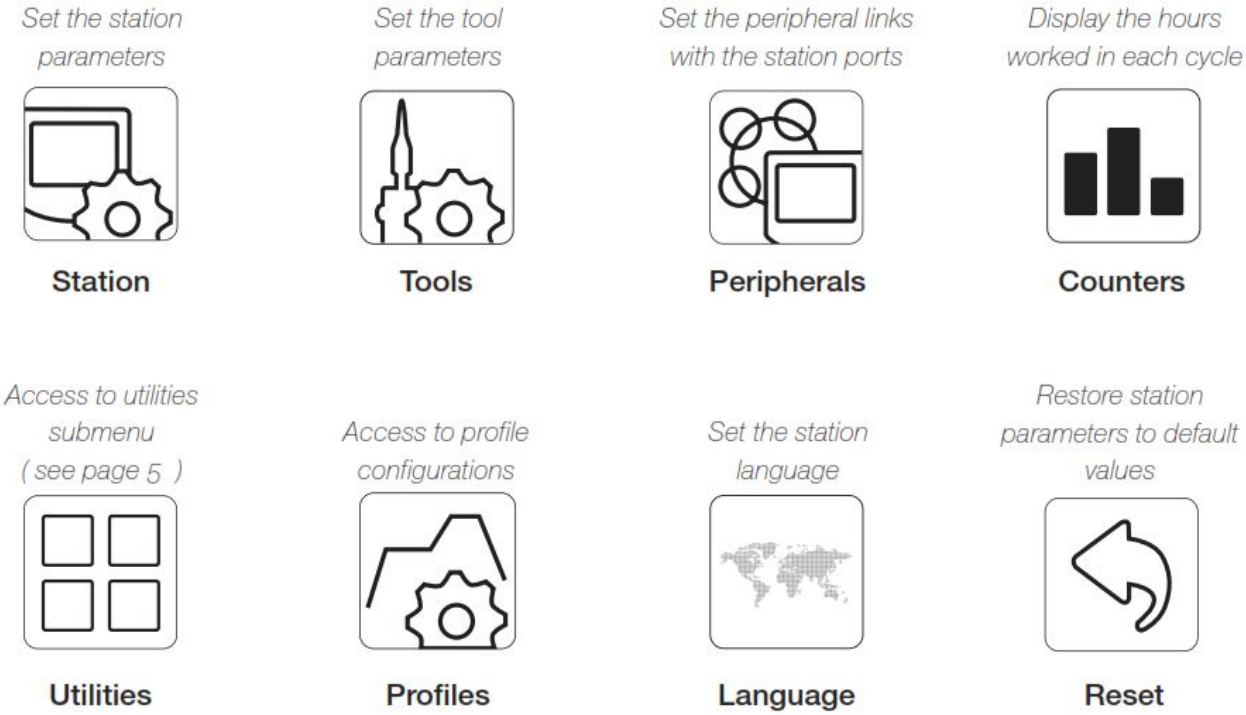
DMU Work Screen

DMU offers an intuitive user interface which provides quick access to station parameters.

Default PIN: 0105



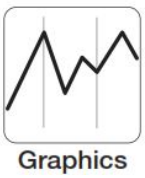
Menu Options



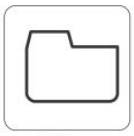
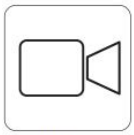
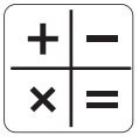
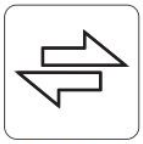
Troubleshooting

Station troubleshooting available on the product page at www.jbctools.com

Utilities Submenu



- It provides detailed graphics of tip temperature and power delivery in real time during solder joint formation for analysis purposes. This helps you decide how to adjust your process or which tip to use to obtain the best quality soldering.

- 
Files **Export graphics :** Insert a USB flash drive into the USB-A connector to save your soldering process in csv format.
- 
Video **Play videos:** Enables to play video files from a USB device as long as it is in AVI format and in 320x240px.
-
Microscope Provides te posibility to connecto a microscope* by USB connection to the station. The image will be shown onto the station display.
Note: Compatibel with: Dino Lite AM2111 and AM2011
- 
Calculator Provides calculator enviornment and function.
- 
Convert Enables to conert, for example, ºC values into ºF values.

System notifications

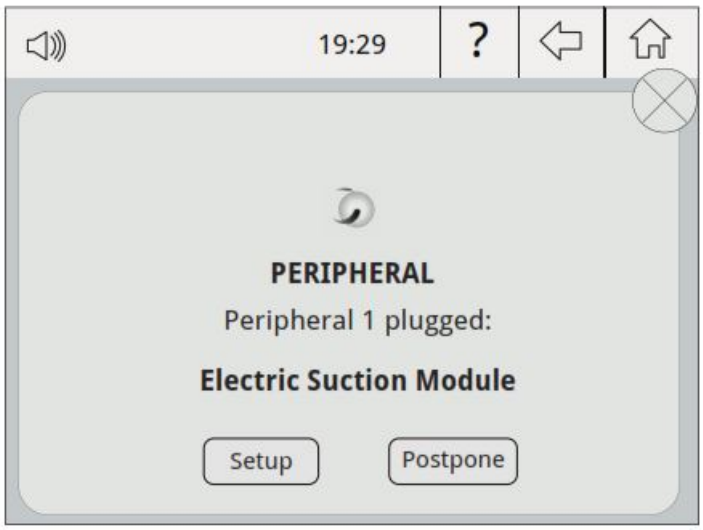
The following icons will be displayed on the screen status bar.

- USB flash drive is connected.
- Station is controlled by a PC.
- Station is controlled by a robot. downloaded to the station.
- Station software update. Press INFO to start the process.
- **Warning**. Press INFO for failure description.
- Error. Press INFO for failure description, the type of error and how to proceed.

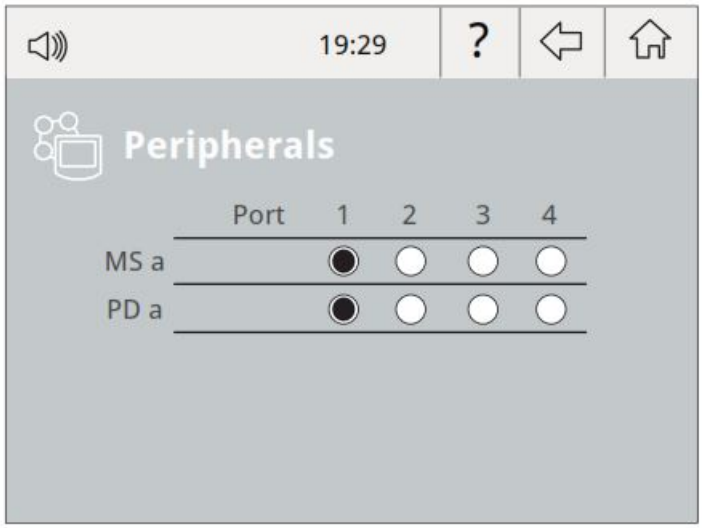
MSE / Pedal Initial Setup

Peripherals After connecting the electric desoldering module (MSE-A), a popup window is opened.

1. To configure your Electric Suction Module press Setup in the popup window.

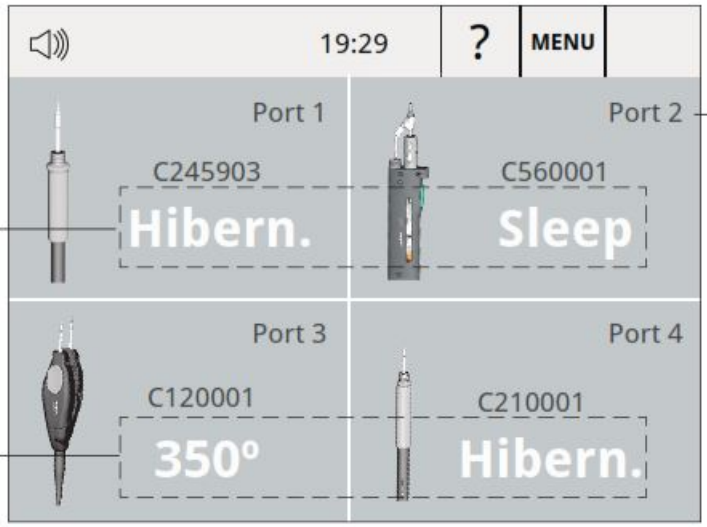


2. Select the module from the list of peripheral connections.Remember your first connection is denoted as “a”, the second being “b”, etc. (e.g. MS_a, MS_b,…). Do the same with the pedal (e.g. PD_a,…)
3. Select the port of the tool you want to link to the peripheral.
4. Press Menu or Back to save changes. Once set up, the module settings can be changed by entering the Peripherals Menu.



Simultaneous Ports Control

See the information for all ports in real time when pressing the tool image on the Work screen.

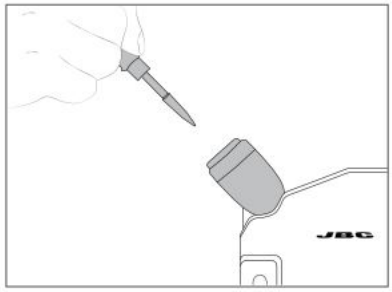


Operation

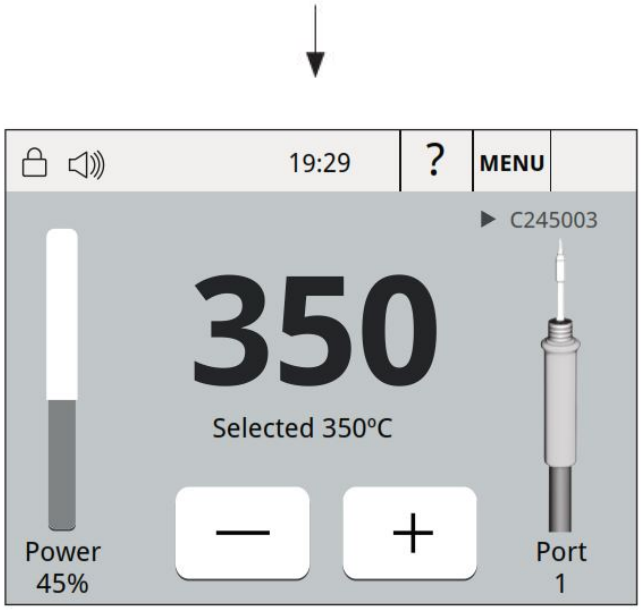
The JBC Most Efficient Soldering System

Our revolutionary technology is able to recover tip temperature extremely quickly. It means the user can work at a lower temperature and improve the soldering quality. The tip temperature is further reduced thanks to the Sleep and Hibernation modes which increase up to 5 times the life of the tip.

1. **Work**



When the tool is lifted from the stand the tip will heat up to the selected temperature.

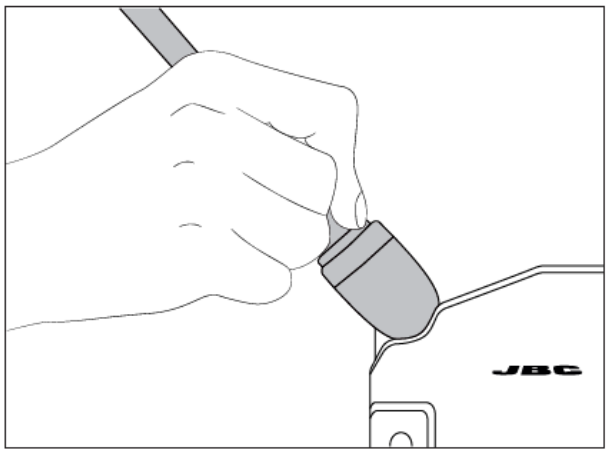


Tools Menu:

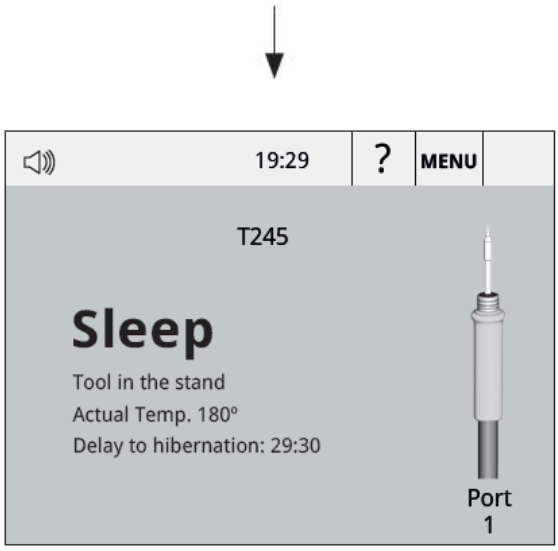
Adjust temperature limits and cartridge.

Set temperature levels.

2. **Sleep**



When the tool is in the stand, the temperature falls to the preset Sleep temperature.

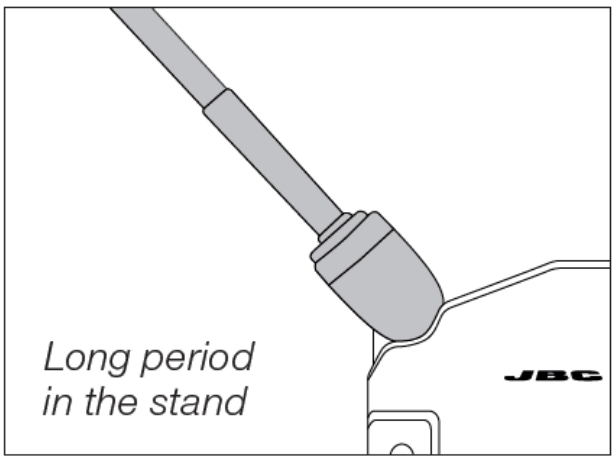


Tools Menu:

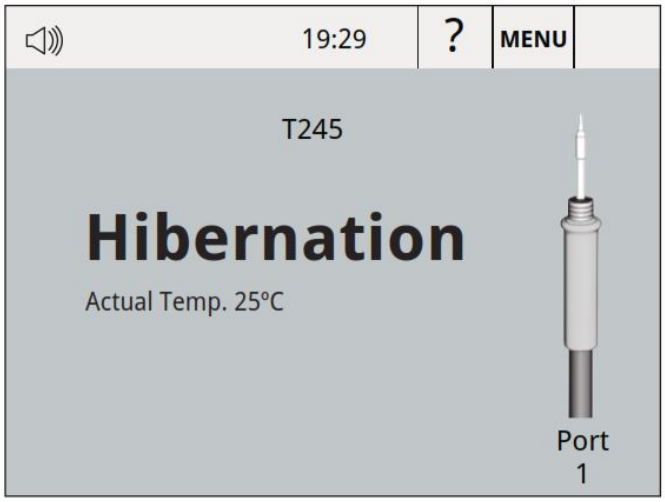
Set Sleep temperature.

Set Sleep delay.(from 0 to 9 min or no Sleep)

3. **Hibernation**



After longer periods of inactivity, the power is cut off and the tool cools down to room temperature.



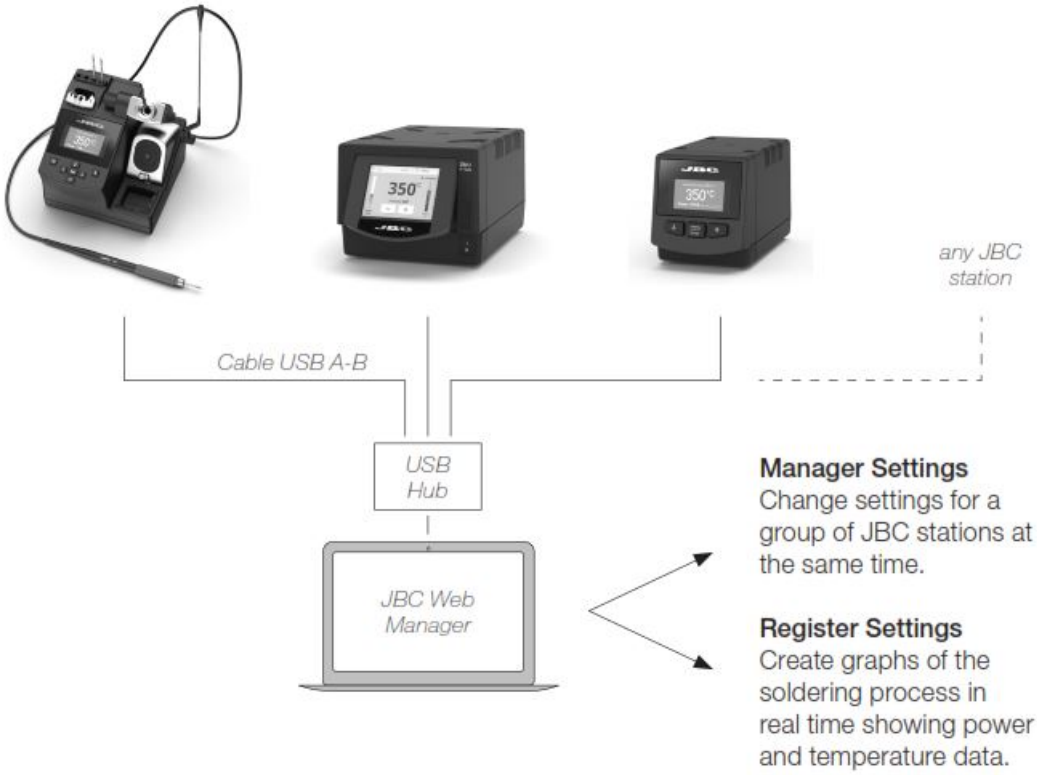
Tools Menu:

Set Hibernation delay. (from 0 to 60 min or no hibernation)

USB Connector
Download the latest software from our website to improve your soldering station at
www.jbctools.com/software.html

JBC Web Manager Lite : www.jbctools.com/manager.html
Manage and monitor as many stations as your PC can handle by using JBCs Web Manager Lite.

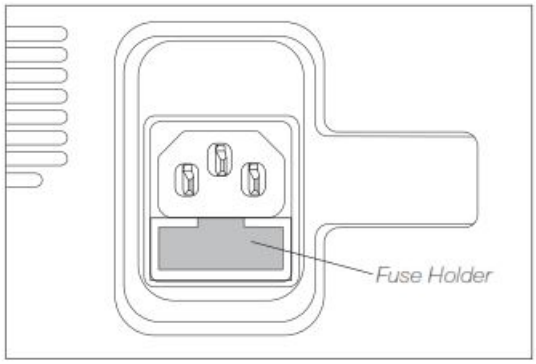
Note: Data can be exported to another PC.



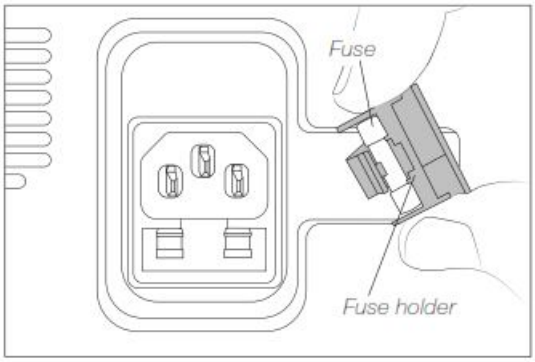
Maintenance

Before carrying out maintenance or storage, always allow the equipment to cool.

- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool and establish its status.
- Maintain tip surface clean and tinned prior to storage in order to avoid tip oxidation. Rusty and dirty surfaces reduce heat transfer to the solder joint.
- Periodically check all cables and tubes.
- Replace a blown fuse as follows:
    - Pull off the fuse holder and remove the fuse. If necessary use a tool to lever it off.



- Insert the new fuse into the holder and return it to the station.



- Replace any defective or damaged pieces. Use original JBC spare parts only.
- Repairs should only be performed by a JBC authorized technical service.

Safety

It is imperative to follow safety guidelines to prevent electric shock, injury, fire or explosion.

- Do not use the units for any purpose other than soldering or rework. Incorrect use may cause fire.
- The power cord must be plugged into approved bases. Be sure that it is properly grounded before use. When unplugging it, hold the plug, not the wire.
- Do not work on electrically live parts.
- The tool should be placed in the stand when not in use in order to activate the sleep mode. The soldering tip or nozzle, the metal part of the tool and the stand may still be hot even when the station is turned off. Handle with care, including when adjusting the stand position.
- Do not leave the appliance unattended when it is on.
- Do not cover the ventilation grills. Heat can cause inflamable products to ignite.
- Avoid flux coming into contact with skin or eyes to prevent irritation.
- Be careful with the fumes produced when soldering.
- Keep your workplace clean and tidy. Wear appropriate protection glasses and gloves when working to avoid personal harm.
- Utmost care must be taken with liquid tin waste which can cause burns.
- This appliance can be used by children over the age of eight and also persons with reduced physical, sensory or mental capabilities or lack of experience provided that they have been given adequate supervision or instruction concerning use of the appliance and understand the hazards involved. Children must not play with the appliance.
- Maintenance must not be carried out by children unless supervised.

Specifications

DMU

4-Tool Control Unit
Ref. DME-9A 100V 50/60Hz. Input fuse: T-8A. Output: 23.5V
Ref. DME-1A 120V 50/60Hz. Input fuse: T-3.5A. Output: 23.5V
Ref. DME-2A 230V 50/60Hz. Input fuse: T-3.15A. Output: 23.5V

- **Output Peak Power:** 160W per tool
- **Temperature Range:** 90 – 450 °C / 190 – 840 °F
- **Idle Temp. Stability (still air):** ±1.5ºC / ±3ºF Meets and exceed IPC J-STD-001F
- **Temp Accuracy:** ±3% using reference cartridge
- **Temp Adjustment:** ±50ºC / ±90ºF Through station menu setting
- **Tip to Ground Voltage/Resistance:** Meets and exceed ANSI/ESD S20.20-2014 IPC J-STD-001F
- **Ambient Operating Temp:** 10 – 50 ºC / 50 – 122 ºF
- **Connections:** USB-A / USB-B / Peripherals connectors RJ12 connector for Robot
- **Control Unit Dimensions / Weight**: 232 x 148 x 120 mm / 4.57 kg (L x W x H) 9.13 x 5.83 x 4.72 in / 10.08 lb
- **Total Package Dimensions / Weight:** 258 x 328 x 208 mm / 4.97 kg (L x W x H) 10.16 x 12.91 x 8.19 in / 10.96 lb

Complies with CE standards. ESD safe.

Warranty

JBC's 2 year warranty covers this equipment against all manufacturing defects, including the replacement of defective parts and labour. Warranty does not cover product wear or misuse. In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.
Get 1 extra year JBC warranty by registering here: https://www.jbctools.com/productregistration/ within 30 days of purchase.

Documents / Resources

	JBC DMU 4 Tool Control Unit [pdf] Instruction Manual DMU, 4 Tool Control Unit, DMU 4 Tool Control Unit, DME-9A, DME-1A, DME-2A

References

- JBC Soldering and Rework equipment for electronics
- Manager DOWNLOAD
- DOWNLOAD SOFTWARE
- Warranty Extension

Manuals+.