

JBC

www.jbctools.com

INSTRUCTION MANUAL



Four-Tool Control Unit

Ref. DME-A

Packing List

The following items are included:

Four-Tool Control Unit 1 unit
Ref. DME-1A (120V)
DME-2A (230V)
DME-9A (100V)

Power Cord 1 unit
Ref. 0010569 (230V)
0013671 (100V/120V)

Manual 1 unit
Ref. 0019714



Features

3.5" Color TFT Touch screen

USB-A connector

Tilt the display for easy reading

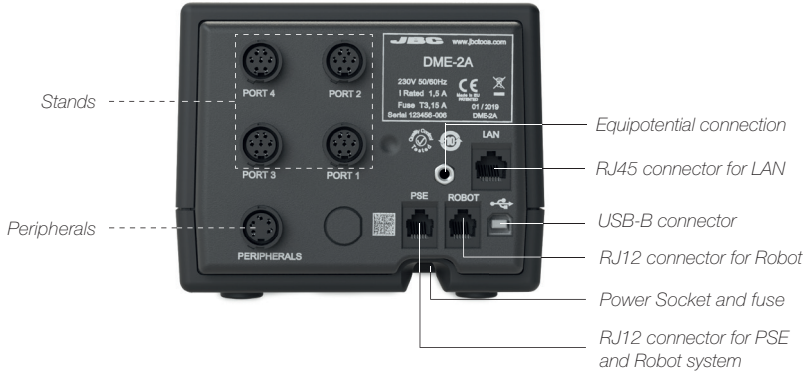


Main Switch

Connections

Work simultaneously with **up to 4** tools and 1 module + 1 pedal for each tool (Peripherals).

DME Control Unit



Compatibility

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

Basic working system				Peripherals**			
Control Unit	Tool	Cartridge Range	Stand	MSE-A / MVE-A	MNE-A	FSE-A	P-005
DME-A	T210-A	C210	AD-SD			●	●
	T245-A	C245				●	●
	T470-A	C245				●	●
	T210-NA*	C210	DN-SE				
	T245-NA*	C245			●		●
	T470-NA*						
	AP250-A	C250	AP-SD			●	●
	PA120-A	C120	PA-SD			●	●
	HT420-A	C420	HT-SD			●	●
	DS360-A	C360	DS-SD	●			●
DR560-A	C560	DR-SD	●			●	

* The **MNE** Nitrogen Flow Regulator is required.

If you need to connect the **MS, **MV**, **MN** or **FS** modules, an adapter is required (Ref. IM2496).

Work Screen

The DME-A offers an intuitive user interface which provides quick access to the station parameters.

Default PIN: 0105

Station Information
Help for each parameter

Station Lock
PIN required for unlocking

Power indicator
Shows the % power delivered by the tool.

Cartridge in use
Introduce the reference for more precise temperature accuracy

Tool in use
Press on the tool image to see the Ports Screen

17:14 ? MENU

▶ C245-003

350°C

Selected 350°

Power 45%

Port 3

Troubleshooting

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

Menu Screen

Press the station information button (?) to get information of the different features being displayed.

Configure tool settings for each port

Link station ports with modules and pedals

Personalize the station:
Station name, PIN activation, Screen settings, Robot activation, Partial resets...

Registers total and partial hours
for each port: work, sleep, hibernation...

17:14 ? ← ↻

Station Tools Peripherals Counters

Utilities Profiles Language Reset

Utilities
Useful additional applications that complement and support your work.

Multi-language
10 languages to choose from

Advanced functionalities



Graphics

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.



Profiles

Designed to avoid thermal shock when soldering Ceramic Chip components like MLCC, this new and unique feature allows controlling the heating ramp up rate of the tool to gradually increase the temperature of the component through all the phases of the soldering process. Up to 25 fully configurable soldering profiles can be stored.




JBC Net

The first system to optimize traceability in soldering

- Get greater quality and control in your production
- Manage your whole soldering process remotely in real time

Simultaneous control of ports

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

 17:14 ? MENU	
 <p>Port 1 C560-903 Hibern.</p>	 <p>Port 2 C560-001 Sleep</p>
<p>Port 3 NO TOOL SET</p>	<p>Port 4 NO TOOL SET</p>

Tool Status
Tip temperature,
Sleep or
Hibernation

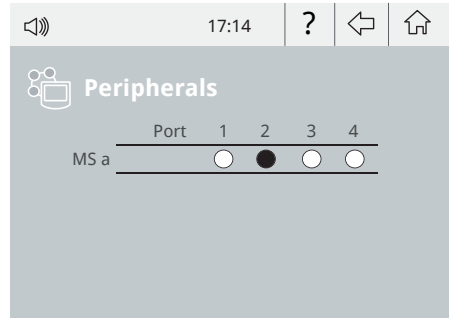
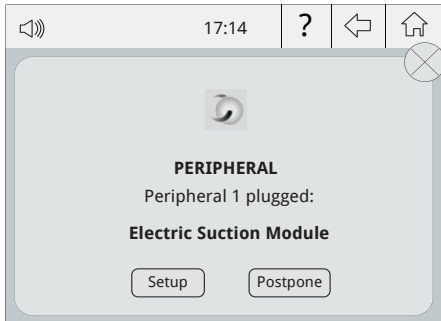
Tool port
Press any port
to show on the
Work Screen

MSE Initial Setup



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

Peripherals



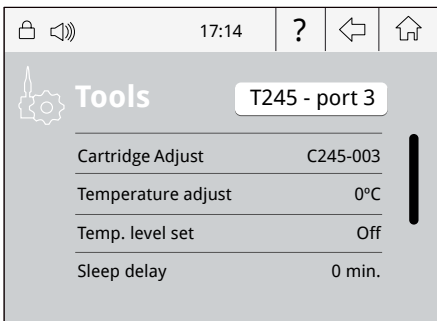
1. To configure your Electronic Suction Module press Setup in the popup window.

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,...)

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, you can change the module settings by entering the **Peripherals** Menu.

Cartridge Adjustment



Insert the cartridge model and the station will recognize its characteristics (size and shape) to provide better temperature precision.

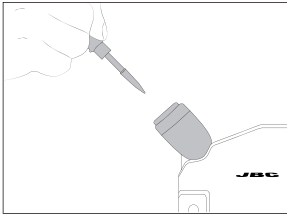
After inserting the cartridge, introduce the last 3 numbers of its reference.

Operation

The JBC Most Efficient Soldering System

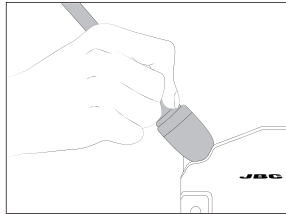
Our revolutionary technology is able to recover tip temperature extremely quickly. It means the user can work at a lower temperature and improve the quality of soldering. The tip temperature is further reduced thanks to the Sleep and Hibernation modes which increase up to 5 times the life of the tip.

1. Work



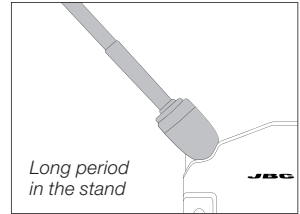
When the tool is lifted from the stand the tip will heat up to the selected temperature.

2. Sleep

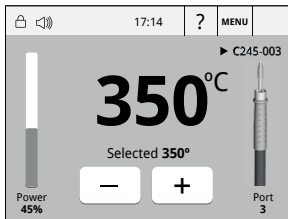


When the tool is in the stand, the temperature falls to the preset Sleep temperature.

3. Hibernation

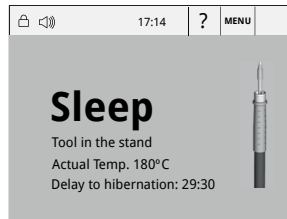


After longer periods of inactivity, the power is cut off and the tool cools down to room temperature.



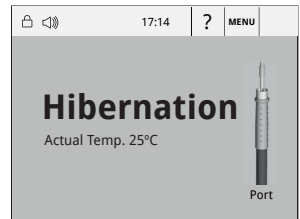
Tools Menu:

- Adjust temperature limits and cartridge.
- Set temperature levels.



Tools Menu:

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










Tools Menu:

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

System notifications

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

-  USB flash drive is connected.
-  Station is controlled by a PC.
-  Station is controlled by a robot.
-  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.
-  Indicates there is a peripheral to be installed.

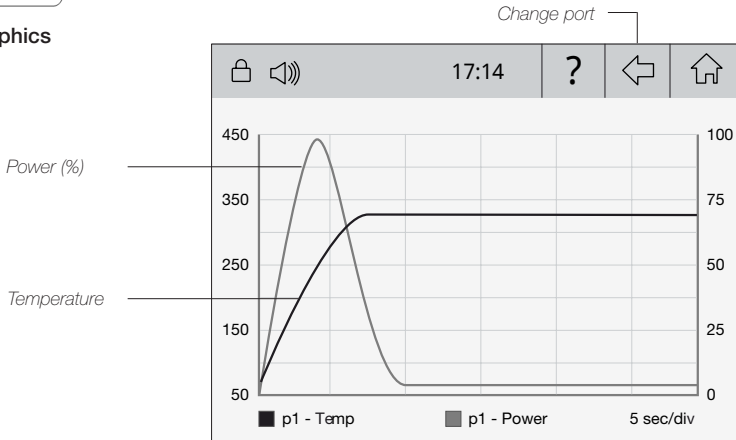
Process analysis

Optimize your production after analysing the information provided by the graphics.



By pressing **Graphics** in the Utilities MENU, temperature and power figures in real time are displayed for each port. This helps you decide how to adjust your process or which tip to use to obtain the best quality soldering.

Graphics




Export graphics

Insert a USB flash drive into the USB-A connector to save your soldering process in csv format.



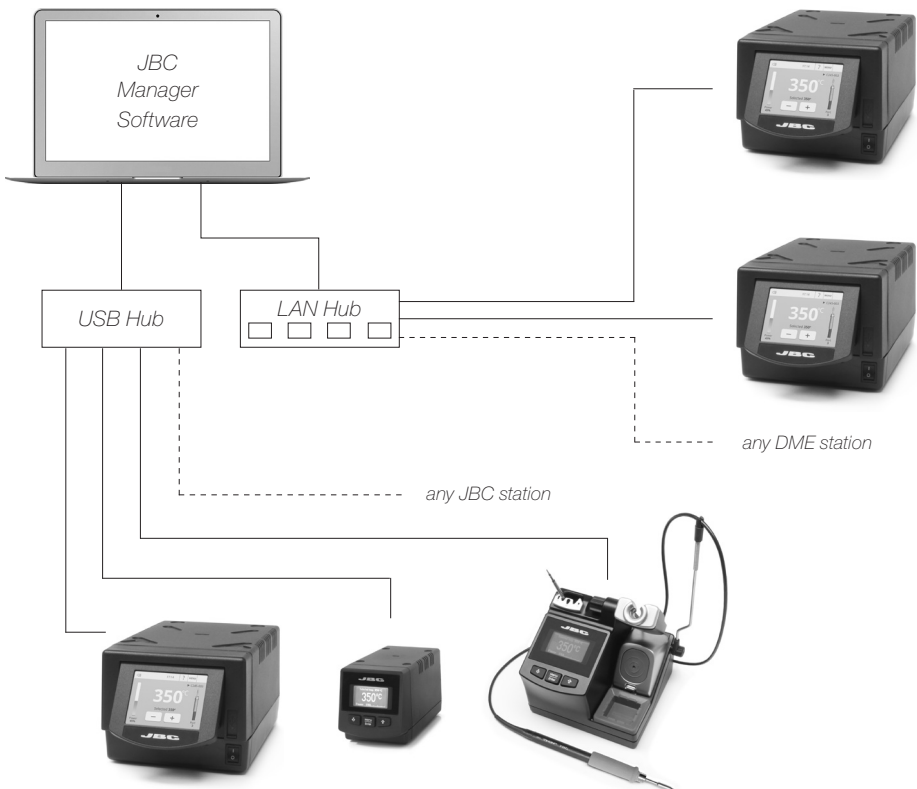
Soldering Network

Remotely manage and monitor your stations from a PC.

1. Download the **JBC Manager software** and the user manual from www.jbctools.com/manager.html
2. Connect the stations via USB-B or LAN (RJ45) and the PC will automatically detect them.
3. The notification  will be displayed on the station.


Functions:

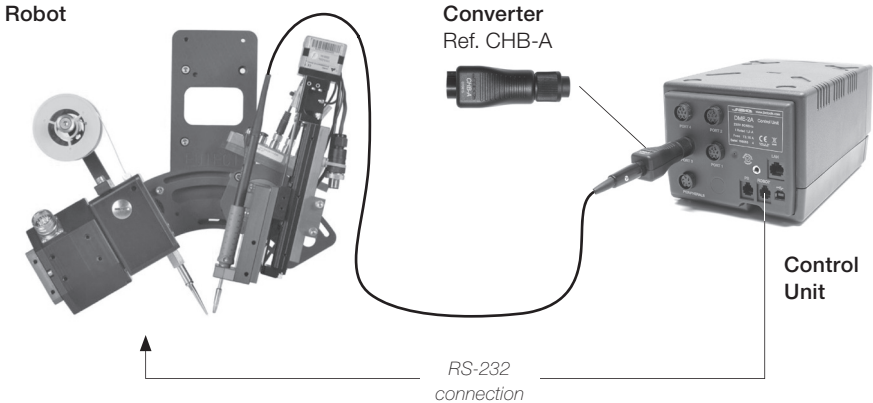
- Set all the station parameters from your PC.
- Organize groups of stations and set all their parameters at the same time.
- Store specific configurations for later use.
- Analyze a station's soldering graphics on your PC and export them.




Working with Robots

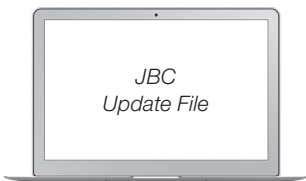
Manage and monitor the station using a Robot system.

1. Connect the tool to the station port by means of the CHB-A Converter.
2. Connect your Robot system to the socket on the station (RJ12).
DB9-RJ12 Adapter available only if necessary (Ref: 0013772).
3. Enable the Robot option in the station settings and the notification will be displayed: 
4. Set your Robot's commands according to the Robot Communication Protocol, available on the website www.jbctools.com/jbcsoftware-menu-115.html.



Update the station software

1. Download the JBC Update File from www.jbctools.com/software.html and save it on a USB flash drive. Preferably one with no other files.
2. Insert the USB flash drive to the station. The icon  is displayed while updating.

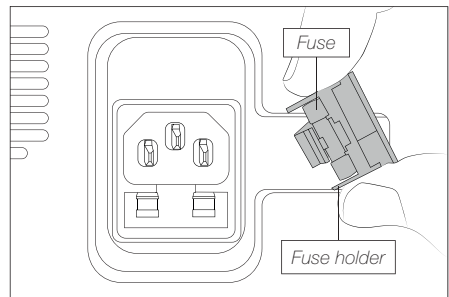
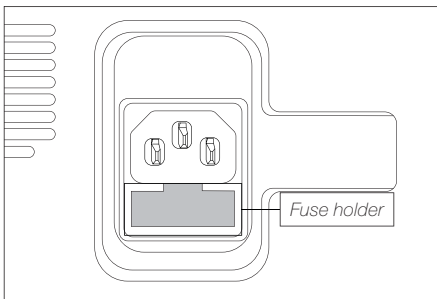


Maintenance

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:

Clean periodically



1. Pull off the fuse holder and remove the fuse. If necessary use a tool to lever it off.

2. 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. Make 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, the metal part of the tool and the stand may still be hot after 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 inflammable 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 as well as persons with reduced physical, sensory or mental capabilities or lacking 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.

有害物质含量表

产品中有害物质的名称及含量

部件名称	有害物质					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
烙铁头	○	○	○	○	○	○
手柄	○	○	○	○	○	○
电源线	○	○	○	○	○	○
主机	○	○	○	○	○	○
电源插座	○	○	○	○	○	○
保险丝	○	○	○	○	○	○
主开关	○	○	○	○	○	○
电位连接	X	○	○	○	○	○
变压器	○	○	○	○	○	○
线路板	X	○	○	○	○	○

○ 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。
 X 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 规定的限量要求。

Specifications

DME-1A 120V 50/60Hz. Input fuse: T-3,5A. Output: 23.5V

DME-2A 230V 50/60Hz. Input fuse: T-3.15A. Output: 23.5V

DME-9A 100V 50/60Hz. Input fuse: T-8A. Output: 23.5V

- Output Peak Power: 160W per tool
- Temperature Range: 90 - 450 °C / 190 - 840 °F
- Idle Temp. Stability (still air): $\pm 1.5^{\circ}\text{C}$ ($\pm 3^{\circ}\text{F}$) / Meets and exceed IPC J-STD-001F
- Temp accuracy: $\pm 3\%$ (using reference cartridge)
- Temp adjustment: $\pm 50^{\circ}\text{C}$ ($\pm 90^{\circ}\text{F}$) 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 °C / 50 - 122 °F
- 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 protected.

JBC

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.



This product should not be thrown in the garbage.

In accordance with the European directive 2012/19/EU, electronic equipment at the end of its life must be collected and returned to an authorized recycling facility.



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