

JBC

www.jbctools.com

INSTRUCTION MANUAL



DDE

2-Tool Control Unit

This manual corresponds to the following reference:

- DDE-9C (100V)
- DDE-1C (120 V)
- DDE-2C (230 V)

Packing List

The following items are included:



2-Tool Control Unit 1 unit

Power Cord 1 unit
Ref. 0024077 (100V)
0023717 (120V)
0024080 (230V)

Manual 1 unit
Ref. 0029145

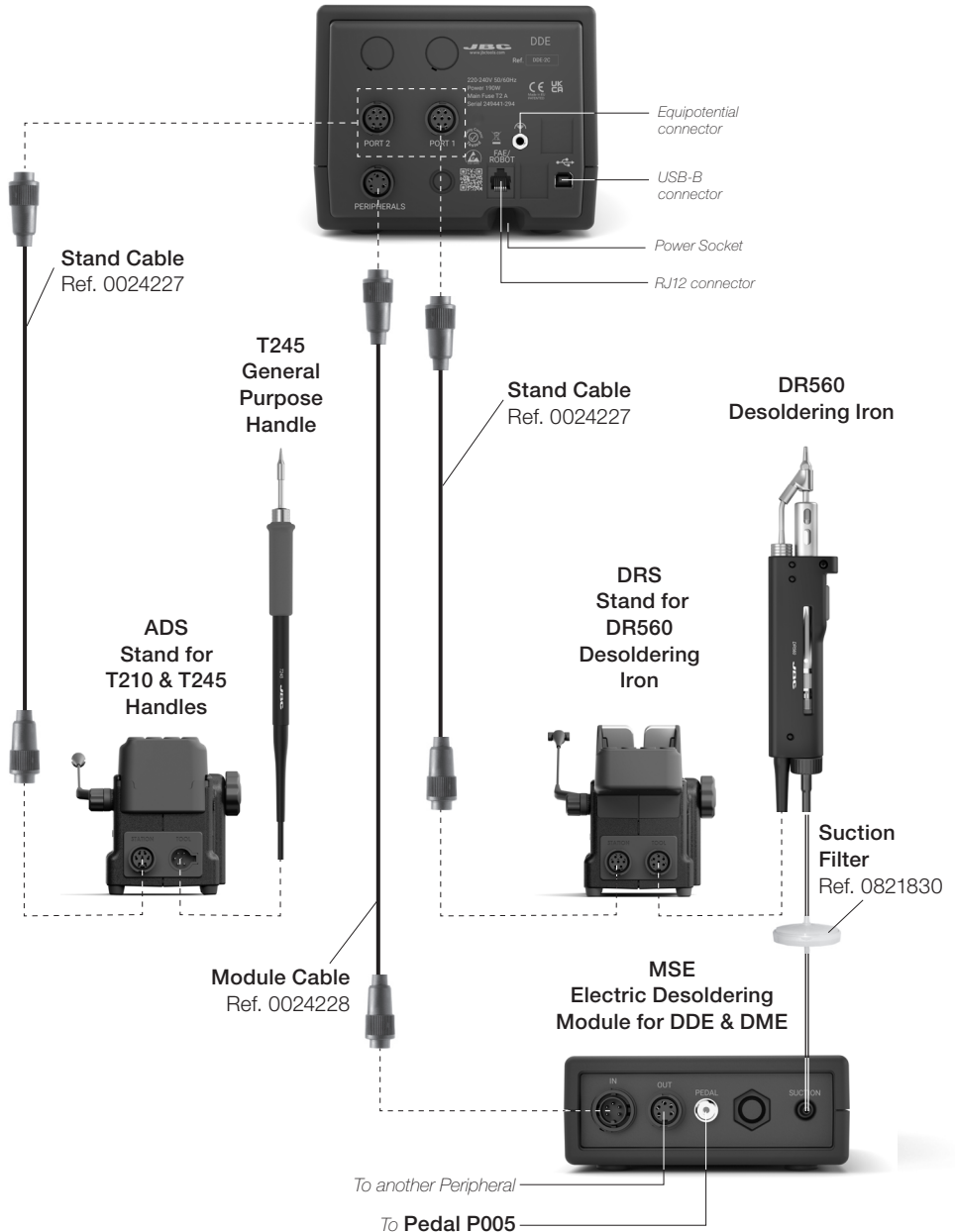
Features

DDE works simultaneously with **up to 2** tools and 1 module + 1 pedal for each tool (one peripheral module for each tool is required).



Connection Example

DDE 2-Tool Control Unit



Connecting to FAE

DDE can be connected to FAE1 and FAE2 fume extractors. To do so, the DDE control unit must be updated with program version 8886784 (or later versions), which can be downloaded from JBC's website at <https://www.jbctools.com/software.html>.

Once the station is updated, connect it to the fume extractor with the RJ12 cable, provided with FAE1 and FAE2. Use the "FAE/Robot" connector on the control unit and any "Station" connector on the fume extractors.

The setting of the fume extractor must be done from the FAE's own interface.



**DDE
2-Tool Control Unit**

RJ12 Cable
Ref. 0019751
Supplied with FAE1/FAE2

either



FAE1 Connectors



FAE2 Connectors

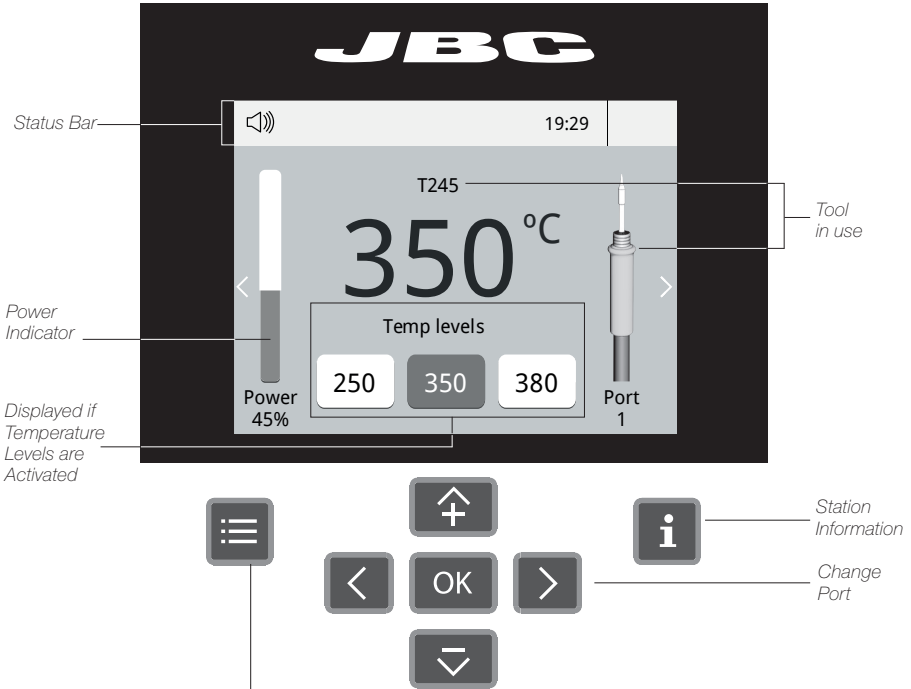
Compatibility

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

Modular System				Peripherals		
Control Unit	Stand	Tool	Cartridge Range	MSE / MVE	MNE	P405
DDE	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	●		●

DDE Work Screen

DDE offers an intuitive user interface which provides quick access to station parameters.
Default PIN: 0105

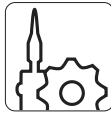


Menu Options



Set the station parameters

Station



Set the tool parameters

Tools



Display the hours worked in each cycle

Counters



Set the peripheral links with the station ports

Peripherals



Restore station parameters to default values

Reset

Troubleshooting

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

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.



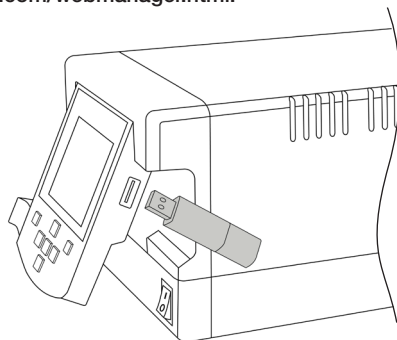
JBC Net

Get greater quality and control in your production. Manage your whole soldering process remotely in real time. For more information see www.jbctools.com/webmanager.html.



Update

Station update
Download the JBC Update File from www.jbctools.com/software.html
Insert the USB flash drive with the file downloaded to the station.



System Notifications

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



USB flash drive is connected.



Station software update. Press INFO to start the process.



Station is controlled by a PC.



Warning. Press INFO for failure description.



Station is controlled by a robot. downloaded to the station.



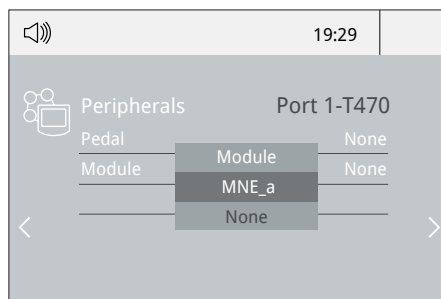
Error. Press INFO for failure description, the type of error and how to proceed.

Peripheral Set Up

1. After connecting the module, enter the Peripherals Menu and select the port which you want to join with the module.

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. MNE_a, MNE_b, ...).

3. Press Menu or Back to save changes.

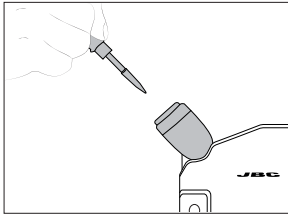


Operation

JBC's Most Efficient Soldering System

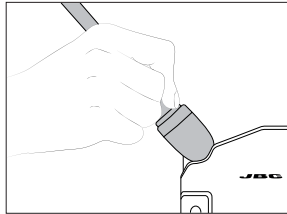
Our revolutionary technology is able to recover tip temperature extremely quickly. It means the user can work at a lower temperature and improve the soldering quality. The tip temperature is further reduced thanks to the Sleep and Hibernation modes which increase up to 5 times the life of the tip.

1. Work



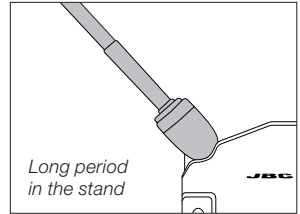
When the tool is lifted from the stand the tip will heat up to the selected Work temperature.

2. Sleep

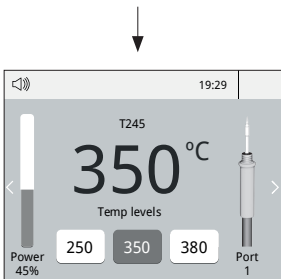


When the tool is in the stand, the temperature falls to the preset Sleep temperature.

3. Hibernation



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




Tool Settings:
· *Work Temp.*

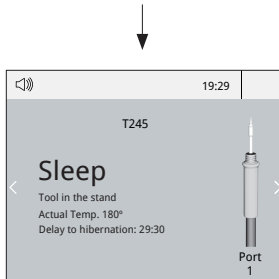
Change Work temperature from 90 to 450 °C.

⬆ or ⬇ steps of ±5 °C / °F

Tool Settings:
· *Temp. Levels*

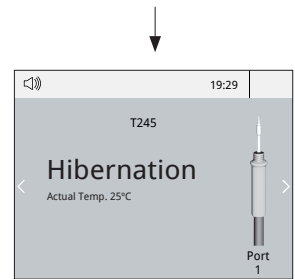
Press , select *Tool Settings* and activate the *Temp. Levels* option.

⬆ or ⬇ steps of ± 5 °C / °F.



Tool Settings:
· *Sleep*

Change Sleep temperature and set Sleep delay from 0 to 9 min or no Sleep.



Tool Settings:
· *Hibernation*

Change 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.



Maintenance

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

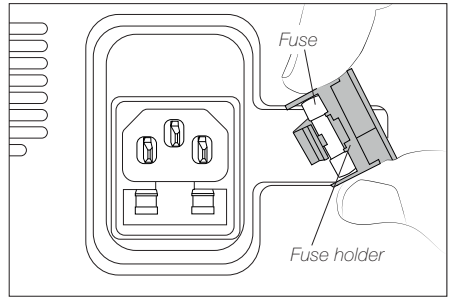
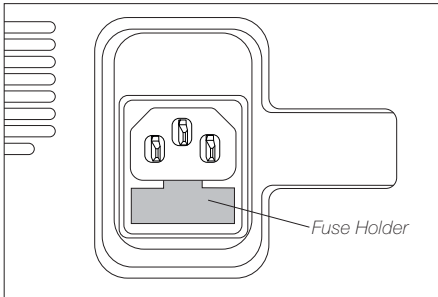
- Clean the station screen with a glass cleaner or a damp cloth.
- Use a damp cloth to clean the casing and the tool. Alcohol can only be used to clean the metal parts.
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool's status.
- Maintain the 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:

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

2. Press the new fuse into the fuse holder and replace it in 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 a 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 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 and also people with reduced physical, sensory or mental capabilities or lack of experience provided that they have been given adequate supervision or instruction concerning the 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.

Notes

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Specifications

DDE

2-Tool Control Unit

Ref.: **DDE-9C** 100V 50/60Hz. Input fuse: T5A. Output: 23.5V

Ref.: **DDE-1C** 120V 50/60Hz. Input fuse: T4A. Output: 23.5V

Ref.: **DDE-2C** 230V 50/60Hz. Input fuse: T2A. Output: 23.5V

- Output Peak Power: 150W 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:
(L x W x H) 148 x 232 x 120 mm / 3.82 kg
5.8 x 9.1 x 4.7 in / 8.41 lb
- Total Package: 258 x 328 x 208 mm / 4.3 kg
10.15 x 12.9 x 8.1 in / 9.5 lb

Complies with CE standards.
ESD safe.

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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