Excellence range

New stations

Provide you with all the Excellence range features
Compatible with all JBC Tools & Cartridges

Work with 2 tools simultaneously

The station allows a simultaneous connection of 2 tools for soldering or desoldering.

For a basic working system you need 1 tool, 1 stand and 1 cartridge.

Each tool can be joined with **1 pedal** and **1 module** such as the MSE / MVE Desoldering Modules, the KNE Nitrogen Flow Regulator or the FSE Fume extractor.

The user can set **different tools** for each port, even without having to connect them.

DDE · 2 Tools Control Unit

Ref. DDE-1A 120 V, DDE-2A 230 V, DDE-9A 100 V

Software updating
Insert a USB flash drive with the station's latest version. Download it from **www.jbctools.com**

Specifications

Dimensions	173 x 282 x 141 mm	**Output peak power**	150W per tool
Weight	4,3 Kg (9,3 lb)	**Temperature range**	90 - 450 ºC / 190 - 840 ºF (±5%)
Idle temp. stability (still air)	±1.5 ºC / ±3 ºF	**Tip to ground voltage**	< 2 mV RMS
Ambient operating temp.	10 - 40 ºC / 50 - 104 ºF	**Tip to ground resistance**	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	**Robot connector**	RJ12 (RS-232 Protocol)
Voltage	**DDE-1A** 120V 50/60Hz. Output: 23,5V **DDE-2A** 230V 50/60Hz. Output: 23,5V **DDE-9A** 100V 50/60Hz. Output: 23,5V	**Fuse**	Overload protection **DDE-1A** 120V 50/60Hz. Input fuse: 4A **DDE-2A** 230V 50/60Hz. Input fuse: 2A **DDE-9A** 100V 50/60Hz. Input fuse: 5A

www.jbctools.com

English

2 Tools Control Unit

Ref. DDE-A

Packing List

The following items should be included:

- **2 Tools Control Unit** ..... 1 unit
  Ref. DDE-1A (120V)
  DDE-2A (230V)
  DDE-9A (100V)

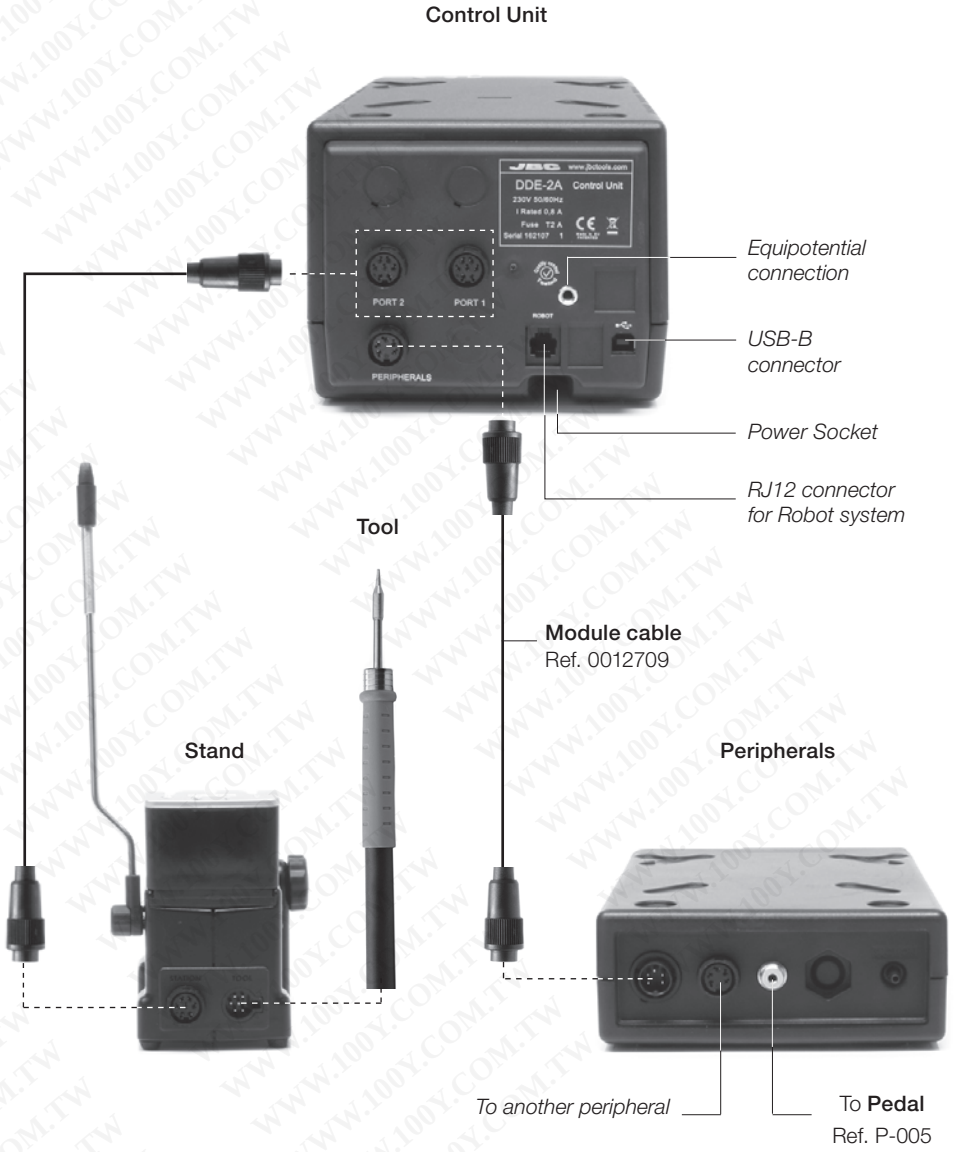
- **1.5m Power Cord** ..... 1 unit
  Ref. 0010569 (230V)
  0013671 (100/120V)

- **Manual** ..... 1 unit
  Ref. 0013167

Features

Connections

Work simultaneously with **up to 2 tools** and 1 module + 1 pedal for each tool (Peripherals).



Stands & Tools

For a basic working system you need: 1 Stand, 1 Tool and 1 Cartridge or tip.

Stands

Ref. AD-SD

Ref. DN-SD

Ref. AP-SD

Ref. PA-SD

Ref. HT-SD

Ref. DS-SD

Ref. DR-SD

Tools

Precision purposes Handle
Ref. T210

General purposes Handle
Ref. T245

HD General purposes Handle
Ref. T470

Nitrogen Handle
Ref. T245-NA*

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

Solder Feed Iron
Ref. AP130

Micro Tweezers
Ref. PA120

Thermal Tweezers
Ref. HT420

Micro Desoldering Iron
Ref. DS360

Desoldering Iron
Ref. DR560

Cartridges

C210

C245

C130

C120

C420

C360

C560

Peripherals

Join station ports with modules and work simultaneously with 1 module and 1 pedal for each tool.

Electric Desoldering Module
Ref. MSE-A

Pneumatic Desoldering Module
Ref. MVE-A

Fume Extractor Switch
Ref. FSE-A

Nitrogen Flow Regulator
Ref. MNE-A

Pedal
Ref. P-005

Compatible with all modules.

Compatibility

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

Basic working system				Peripherals		
Control Unit	Stand	Tool	Cartridge Range	MSE / MVE	MNE	FSE
DDE	AD-SD	T210	C210			●
		T245	C245			●
		T470	C245			●
	DN-SD	T245-NA*	C245		●	
	AP-SD	AP130	C130			●
	PA-SD	PA120	C120			●
	HT-SD	HT420	C420			●
	DS-SD	DS360	C360	●		
	DR-SD	DR560	C560	●		

* The MNE Nitrogen Flow Regulator is required to work.

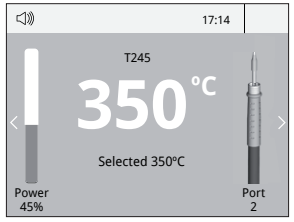
Operation

The JBC Exclusive Heating 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 the tip life by 5.

1. Work

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



Tools Menu:

· Set temperature limits
· Select temperature levels

2. Sleep

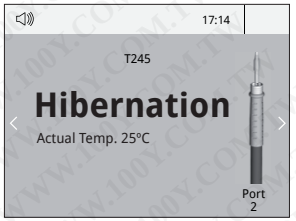
When the tool is in the stand, the temperature falls to 180ºC / 360ºF (preset sleep temperature).

Tools Menu:

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

3. Hibernation

After longer periods of inactivity (pre-set to 30 min.), 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)

Work Screen

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

Menu Options

Press INFO for each parameter description.

System notifications (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.

Process analysis

Graphics

By pressing **Graphics** in the main MENU, temperature and power figures in real time are displayed for each port. This helps you decide which tip to use to obtain the best quality solder joints.

Export graphics

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

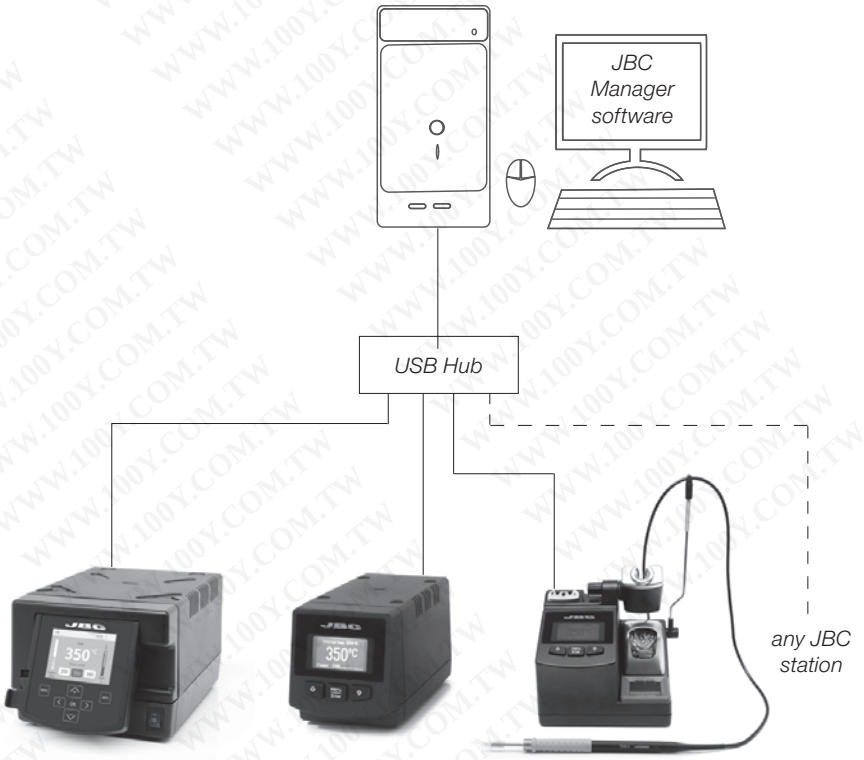
Soldering Net

Remotely manage and monitor as many stations as your PC can handle.

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

Functions:

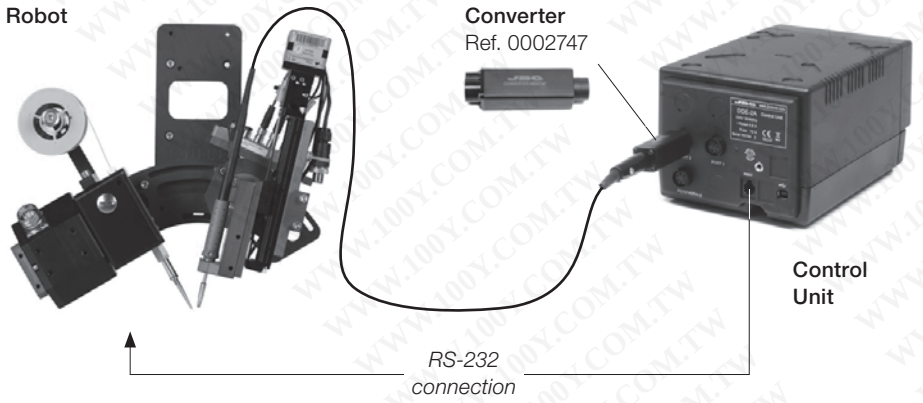
- Set all the station parameters from your PC.
- Organize groups of stations and set all their parameters at the same time.
- Store specific configurations for later uses.
- Analyze the soldering graphics of the stations on your PC and export them.



Working with Robots

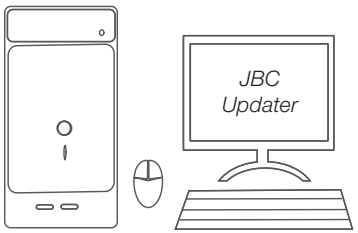
Manage and monitor the station using a Robotic system.

1. Connect the tool to the station port by means of the Converter.
2. Connect your Robot system to the Robot connector (RJ12) of the station.
DB9-RJ12 Adapater 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 Updater software 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.
The icon is diplayed 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.

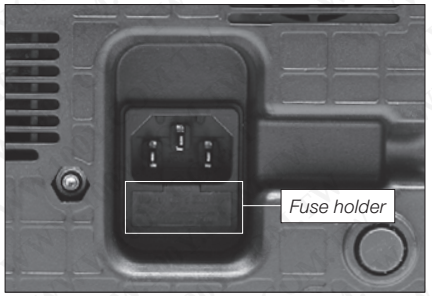
- Periodically check that the metal parts of the tool and stand are clean so that the station can detect the tool status.

- 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.

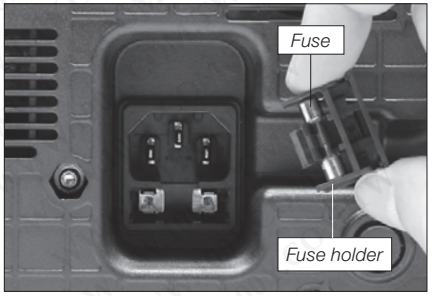
- Periodically check all cables and tubes.

Clean periodically

- 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 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, 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.
- Use a “non residue” classified flux and avoid contact with skin or eyes to prevent irritation.
- Be careful with the fumes produced when soldering.
- Keep your workplace clean and tidy. Wear appropriate protective 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.

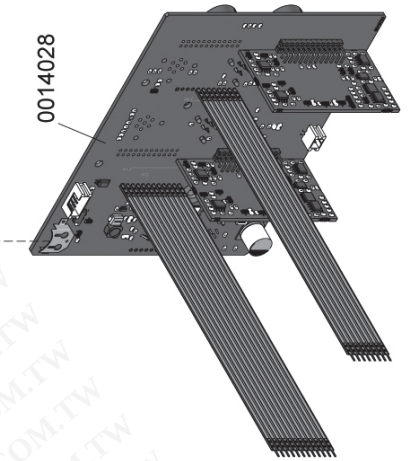
Exploded View

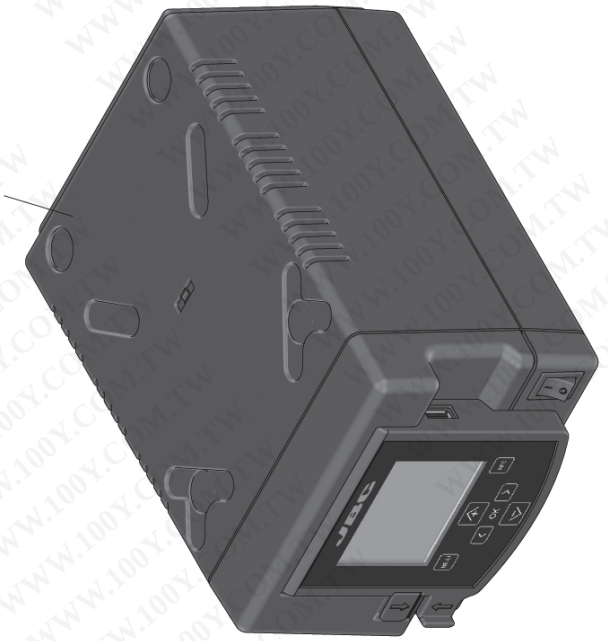
SPARE PARTS

DDE-1A / DDE-2A / DDE-9A:

-REAR CIRCUIT	0014028
-ENCLOSURE	
· TOP	0011035
· BOTTOM	0014567
· FRONT+DISPLAY	0013857
· BACK	0013413

DDE-1A 120V FUSE T-4A
DDE-2A 230V FUSE T-2A
DDE-9A 100V FUSE T-5A





DDE-1A 120V
DDE-2A 230V
DDE-9A 100V
2 TOOLS CONTROL UNIT

Specifications

DDE-1A 120V 50/60Hz. Input fuse: 4A. Output: 23.5V
DDE-2A 230V 50/60Hz. Input fuse: 2A. Output: 23.5V
DDE-9A 100V 50/60Hz. Input fuse: 5A. Output: 23.5V
- Weight: 4.3 Kg (9.3 lb)
- Dimensions: 148 x 120 x 232 mm
- Output Peak Power: 150W per tool
- Temperature Range: 90-450 °C (90-840 ºF)
- Idle Temp. Stability (still air) ±1.5 ºC (±3 ºF)
- Tip to ground resistance: <2 ohms
- Tip to ground voltage: <2mV RMS
- Ambient Operating Temperature: 10-40 ºC (50-104 ºF)
- USB-A / USB-B / Peripherals connectors
- RJ12 connector for Robot

Complies with CE standards
ESD protected housing “skin effect”

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 due to use or mis-use.
In order for the warranty to be valid, equipment must be returned, postage paid, to the dealer where it was purchased.

This product should not be thrown in the garbage.
In accordance with the European directive 2002/96/EC, electronic equipment at the end of their life must be collected and returned to an authorized recycling facility.

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