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# **2 Tools Control Unit**

Ref. DDE-B

Packing List

The following items should be included:

- **2 Tools Control Unit** ..... 1  
unit  
Ref. DDE-1B (120V)  
DDE-2B  
(230V) DDE-  
9B (100V)
- **1.5m Power Cord** ..... 1  
unit  
Ref. 0010569 (230V)  
0013671 (100/120V)
- **Manual** .....  
1 unit  
Ref. 0016160

Features

## Connections

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



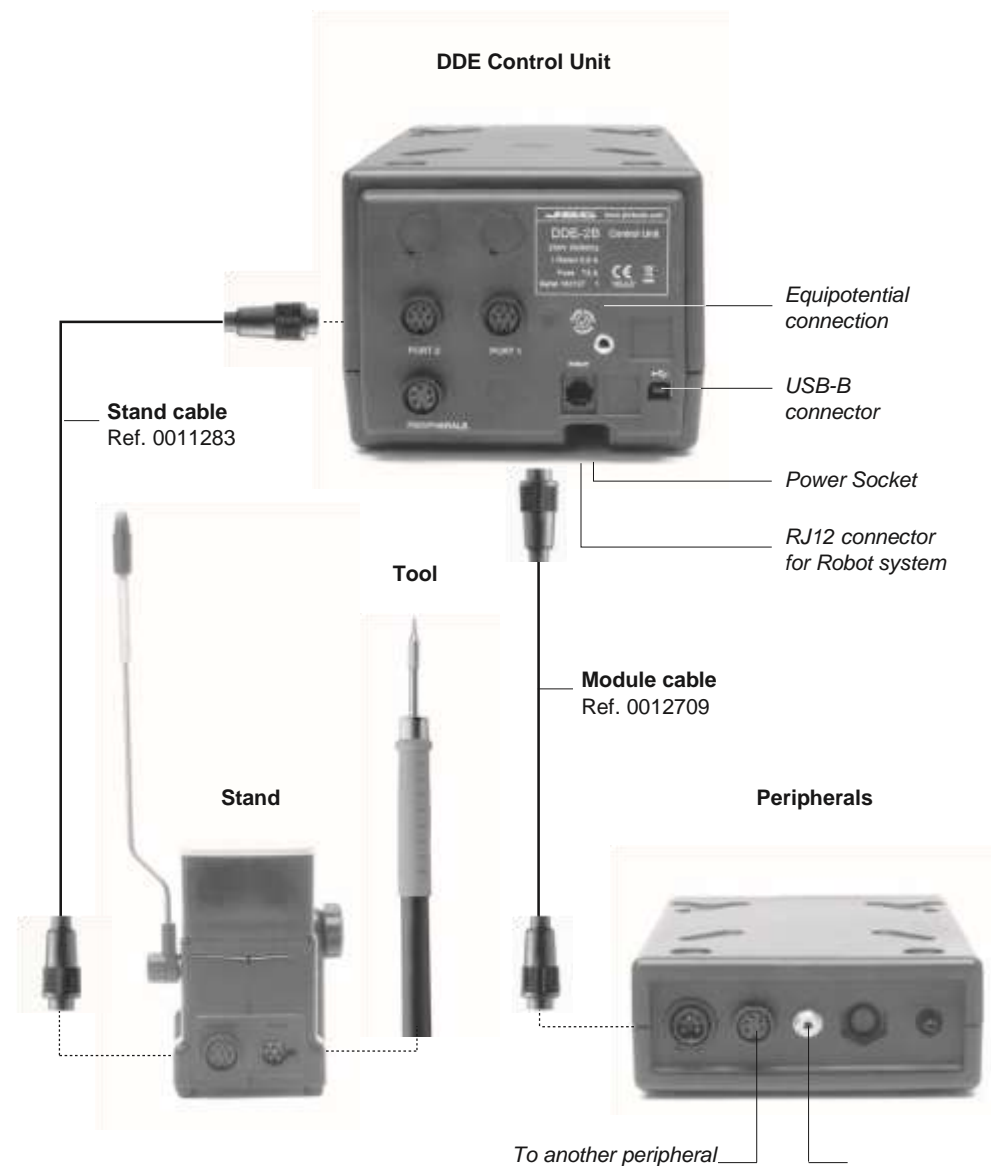
2,8" Color  
TFT screen

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## Stands & Tools

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

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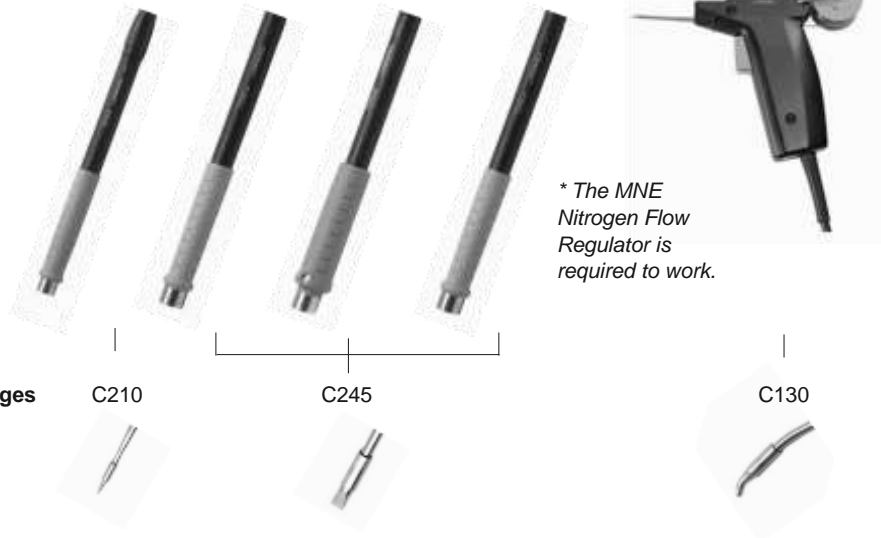
**Stands**



Tools Precision General HD General Nitrogen Solder Feed Iron purposes purposes purposes Handle Ref. AP130

Ref. T245-NA\*

Handle Handle Handle  
Ref. T210Ref. T245Ref. T470

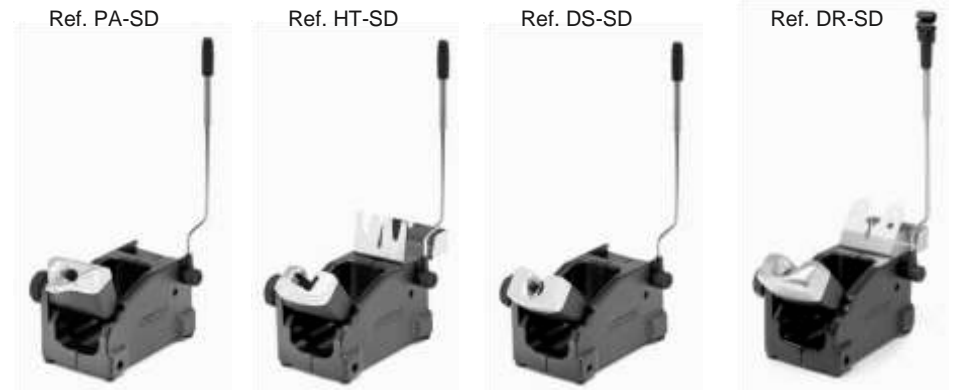


**Cartridges**

C210

C245

C130

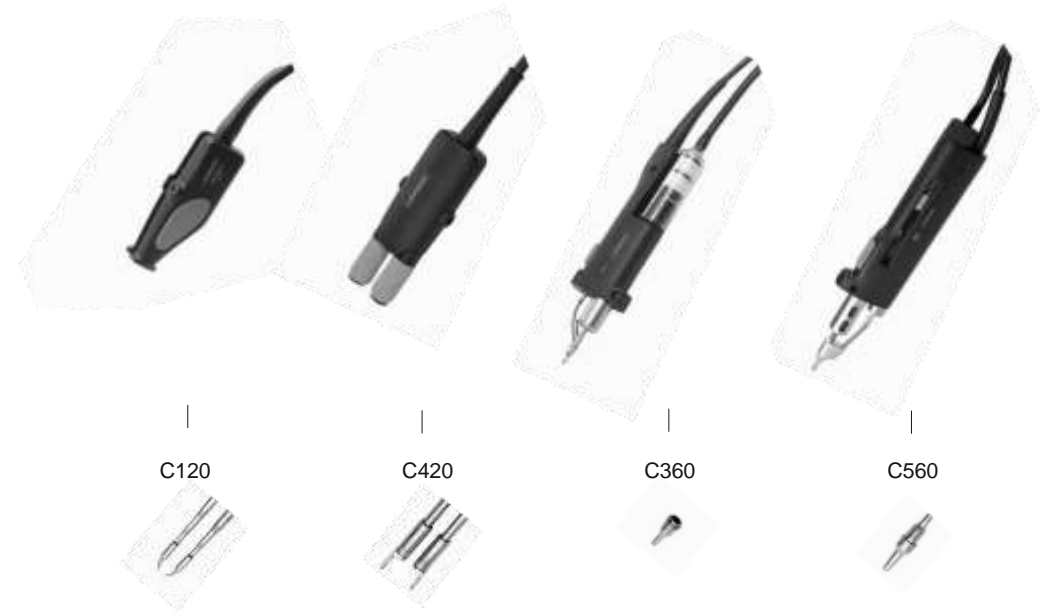


**Micro Tweezers**  
Ref. PA120

**Thermal Tweezers**  
Ref. HT420

**Micro Desoldering Iron**  
Ref. DS360

**Desoldering Iron**  
Ref. DR560



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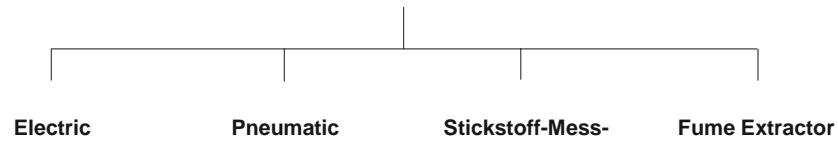
## Peripherals



By pressing **Peripherals** in the main MENU, you can join tool ports with peripherals which means each tool can work with 1 module and 1 pedal at the same time.



**Control Unit**



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Ref. MVE-A

Function: **Enable/disable** the module or make any tool enter **Sleep** or **Hibernation** modes.  
This pedal will work with any module or tool regardless of the module to which it is connected.  
If you do not have a module, you can link up the P-305 Pedal Kit to the tool port.

## Compatibility

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

Basic system		working		Peripherals**			
Control Unit	Stand	Tool	Cartridge Range	MSE / MVE	MNE	FSE	P-005
DDE	AD-SD	T210	C210			●	●
		T245	C245			●	●

	T470	C245			●	●
DN-SD	T245-NA*	C245		●	●	●
AP-SD	AP130-A	C130			●	●
PA-SD	PA120	C120			●	●
HT-SD	HT420	C420			●	●
DS-SD	DS360	C360	●		●	●
DR-SD	DR560	C560	●		●	●

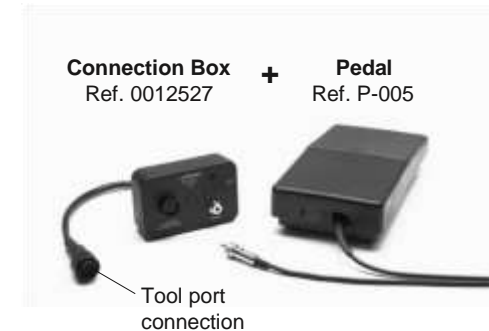
\* The **MNE** Nitrogen Flow Regulator is required.

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

## P-305 Pedal Kit

By using the Connection Box, the P-005 Pedal will work with **only the tool port** to which it is connected.

Function:  
Makes the tool enter/skip from **Sleep** mode.



## Operation

### The JBC Exclusive Heating System 1. Work



2. Sleep

3. Hibernation

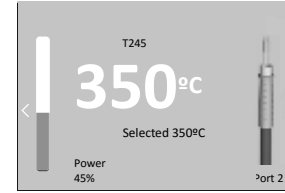


Our revolutionary technology is able to recover tip temperature extremely quickly. It means the user can work at a lower temperature and improve the quality of soldering. The tip temperature is further reduced thanks to the Sleep and Hibernation modes which increase the tip life by 5.

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

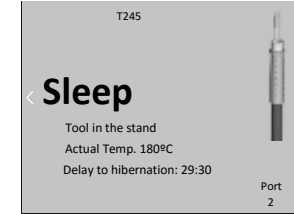
When the tool is in the stand, the temperature falls to 180°C / 360°F (preset sleep temperature).

After longer periods of inactivity (pre-set to 30 min.), the power is cut off and the tool cools down to room temperature.



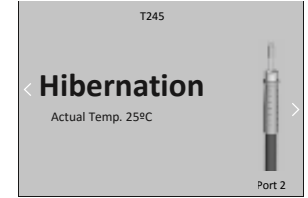
Tools Menu:

- Set temperature limits
- Select temperature levels



Tools Menu:

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



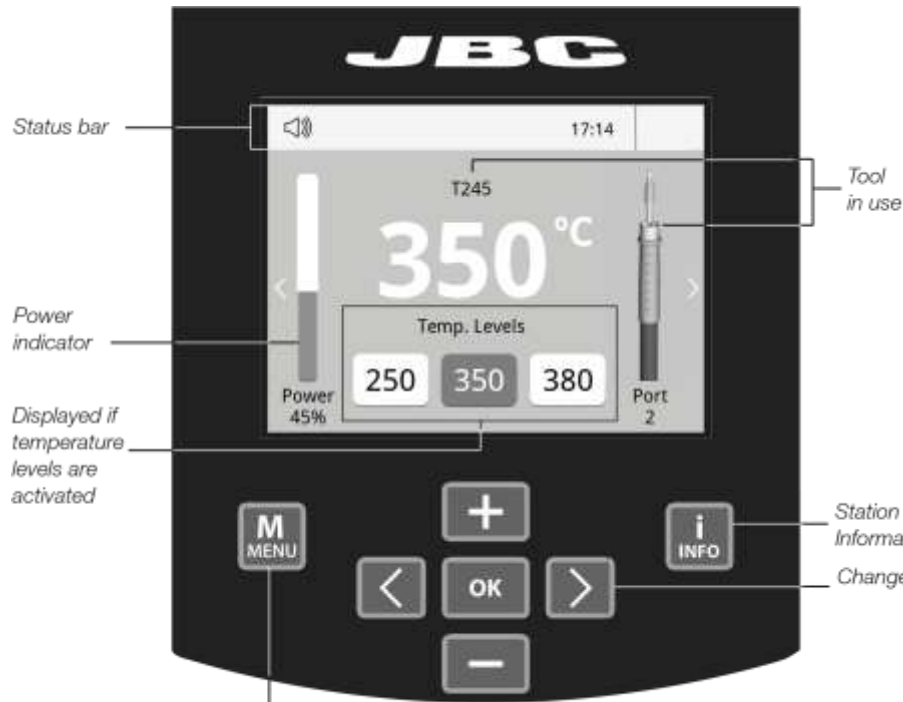
Tools Menu:

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

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## Work Screen

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



Status bar

Power indicator

Displayed if temperature levels are activated

Menu Options

Press INFO for each parameter description.

Tool in use

Station Information  
Change

Station is controlled by a PC.

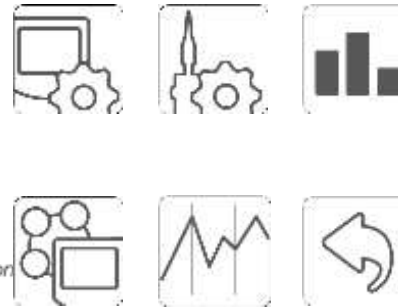
Station is controlled by a robot.

**Station Tools Counters**

Station software update.  
Press INFO to start the process.

Warning.

Press INFO for failure description.



Error. Press INFO for failure description,  
**Peripherals Graphics**  
error and how to proceed.

**Reset** the type of

### System notifications (Status Bar)

USB flash drive is connected.



port

**Process analysis**

**Soldering Net**



Graphics

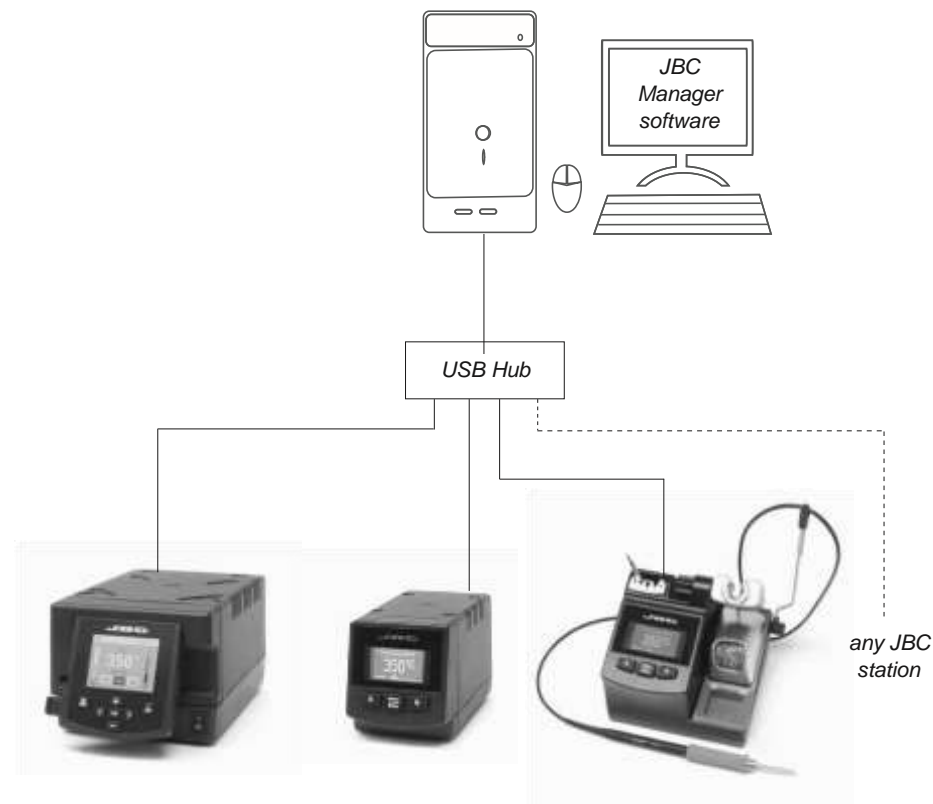
manage and monitor as many stations as your PC can handle.

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.



1. Download the **JBC Manager software** and the user manual from [www.jbctools.com/manager.html](http://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.

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## 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.
- Clean the station screen with a glass cleaner

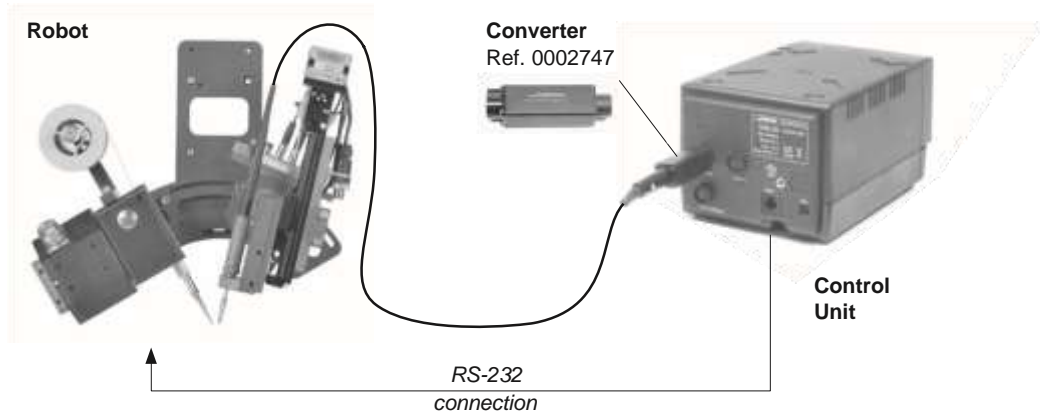
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## Maintenance

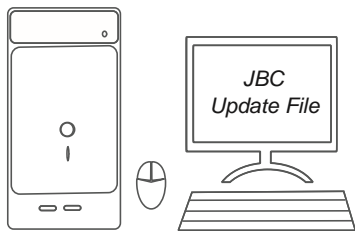
Before carrying out maintenance or storage, always allow the equipment to cool.

*Clean periodically*

website [www.jbctools.com/jbcsoftware-menu-115.html](http://www.jbctools.com/jbcsoftware-menu-115.html)

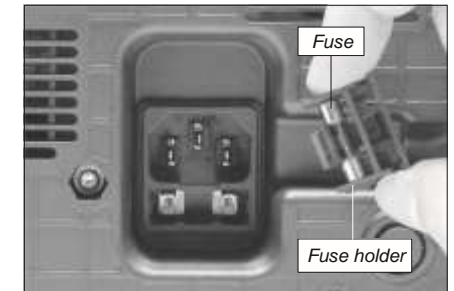
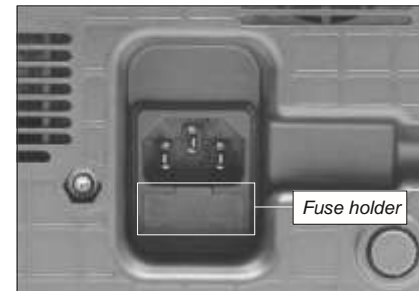



The icon  is displayed while updating.



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.
- Replace a blown fuse as follows



2. Connect your Robot system to the Robot connector (RJ12) of the station. 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

## Update the station software

1. Download the JBC Update File from [www.jbctools.com/software.html](http://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.

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

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

## Safety

- 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.

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- DDE-1B** 120V 50/60Hz. Input fuse: 4A. Output: 23.5V  
**DDE-2B** 230V 50/60Hz. Input fuse: 2A. Output: 23.5V  
**DDE-9B** 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 °F)
  - Idle Temp. Stability (still air) ±1.5 °C (±3 °F)
  - Tip to ground resistance: <2 ohms
  - Tip to ground voltage: <2mV RMS
  - Ambient Operating Temperature: 10-40 °C (50-104 °F)
  - USB-A / USB-B / Peripherals connectors- RJ12 connector for Robot

Complies with CE standards  
ESD protected housing “skin effect”

## Specifications



- Do not leave the appliance unattended when it is on.
- Do not cover the ventilation grills. Heat can cause inflammable 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.