

# JBC

www.jbctools.com



## Premium 4 Tools Rework station with Electric Pump

Ref. DMSE-A

# Packing List

The following items should be included:

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



**Electric Desoldering Module** ..... 1 unit  
 Ref. MSE-A



**Tip Cleaner**.....1 unit  
 Ref. CL9885



**General Purpose Handle** ..... 1 unit  
 Ref. T245-A



**Stand** ..... 1 unit  
 Ref. AD-SD



**Desoldering Iron** ..... 1 unit  
 Ref. DR560-A



**Stand** ..... 1 unit  
 Ref. DR-SD



**Sponge** ..... 1 unit  
 Ref. S0354



**Metal Brush** ..... 1 unit  
 Ref. CL6217



**Union Flanges** ..... 1 unit  
 Ref. 0011356



**Stand Cable** ..... 2 units  
 Ref. 0011283



**Module Cable** ..... 1 unit  
 Ref. 0014874

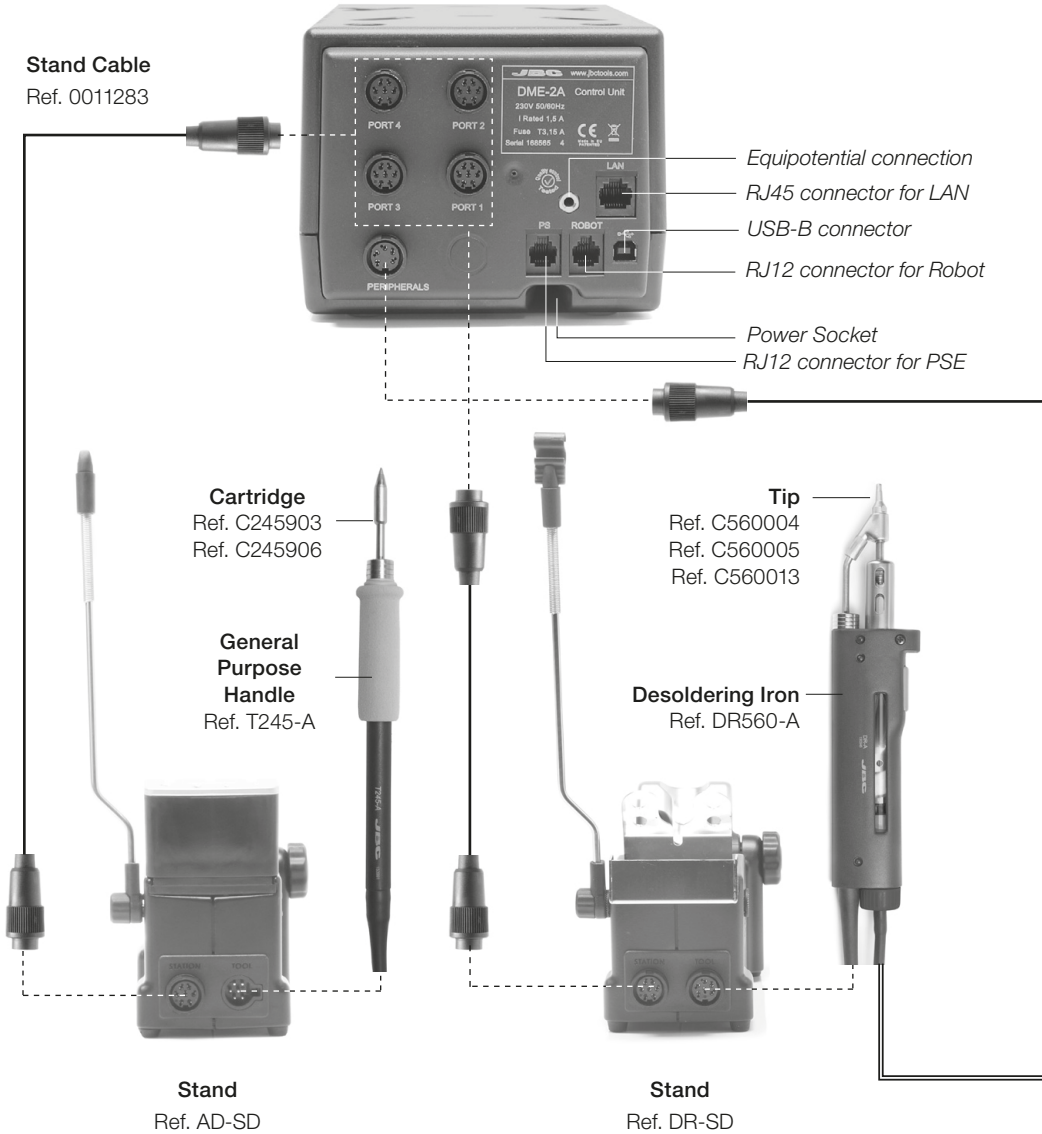


**Power cord** ..... 1 unit  
 Ref. 0010569 (230V)  
 0013671 (100/120V)



# Features

Work simultaneously with **up to 2 tools** and join each station port with **1 module + 1 pedal** (Peripherals).



## Adjustable Stands

### Cable collector

*Keeps working area free of cable.*



### Quick tip changer

*Permits switching cartridges without interrupting your work.*



**Stand**  
Ref. AD-SD

### Quick tip changer

*Holding tip system for easy change.*



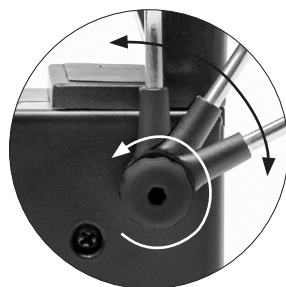
**Stand**  
Ref. DR-SD

### Adjustable tool holder

*Suits your work position.*



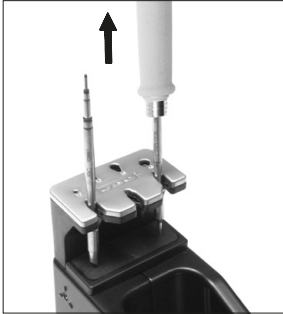
### Adjustable cable collector



# T245 Changing Cartridges

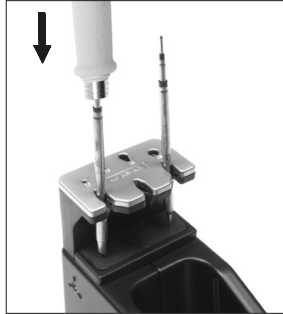
Save time and change cartridges safely without switching the station off.

## 1. Removing



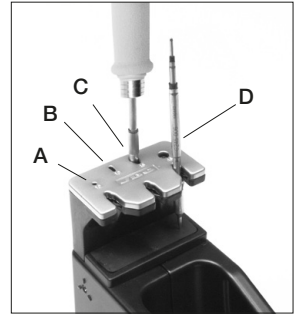
Place the handle in the extractor and pull to remove the cartridge.

## 2. Inserting



Place the handle on top of the new cartridge and press down slightly.

## 3. Fixing

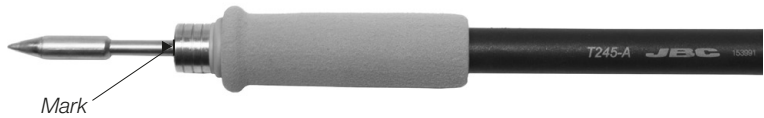


Use the holes for fixing the cartridge\* as follows:

- A. For straight C210.
- B. For curved C210.
- C. For curved C245.
- D. For straight C245.

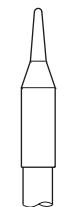
### \*Important

It is essential to insert the cartridges as far as the mark for a proper connection.



### Compatible cartridges

The T245 handle works with C245 cartridges. Find the model that best suits your soldering needs in [www.jbctools.com](http://www.jbctools.com)



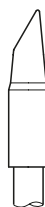
Round



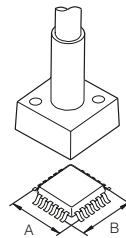
Chisel



Round bent



Bevel



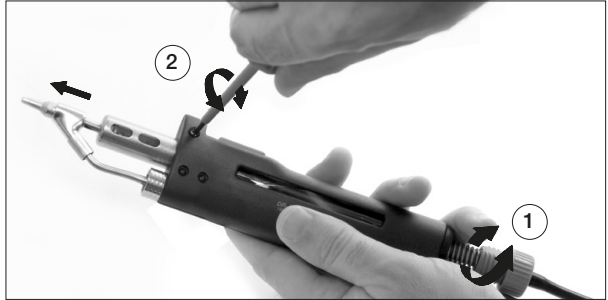
Special models

# DR560 Changing the Heating Element

To perform this operation, turn off the station or disconnect the tool.

## 1. Loosening

The deposit lid needs to be loosened.



## 2. Removing

Loosen the screw as shown and remove the Heating Element.

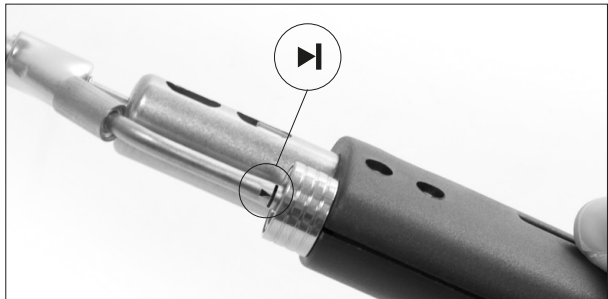
## 3. Placing

Place the new Heating Element and follow the steps conversely.



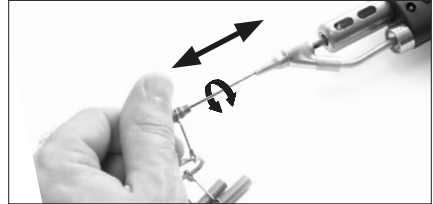
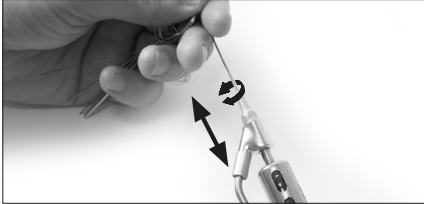
## Important

For a proper connection it is essential to insert the cartridge by lining it up to the mark ►|.



## DR560 Tip Care

The intake tube should be periodically cleaned by the largest rod.



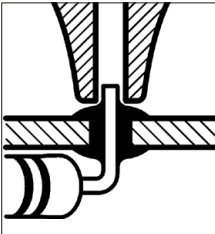
### Important

DO NOT press the vacuum pump button while tinning the desoldering tip, as the fumes given off by the flux would quickly block the ducts and the air filter.

## Desoldering process

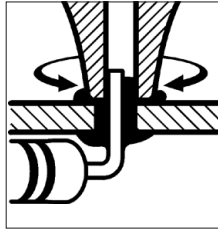
Use a tip with a larger diameter than the pad to achieve maximum aspiration and thermal efficiency.

### 1. Placing



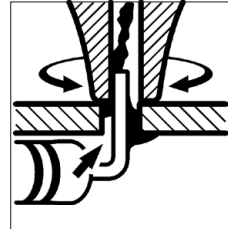
Place the tip with the component terminal in the hole.

### 2. Rotating



When the solder liquefies, gently rotate the tip so that the component terminal can be lifted off.

### 3. Aspirating



Press the vacuum pump button long enough to remove the solder.

After pressing the desoldering key there is a slight delay until the self-contained vacuum pump stops. This makes sure that the vacuum circuit is completely empty. If any solder remains on a terminal after desoldering it, resolder it with fresh solder and repeat the desoldering operation.

# 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.

### 2. Sleep

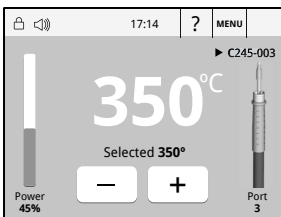


When the tool is in the stand, the temperature falls to the preset Sleep temperature.

### 3. Hibernation



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



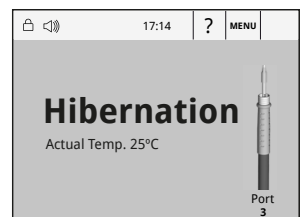
Tools Menu:

- Adjust temperature 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)



# Menu Screen

Select any option and press the station information button to display each parameter description.

*Adjust tool settings for each port*

*Join 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...

**Multi-language**  
 Up to 8 languages to choose from.

**Utilities**

Useful additional applications that complement and support your work.

View your video\* via USB, or import it from your PC

Unit Converter °C - °F - K

Connect a microscope\*\* via USB and see your work on the screen

Monitor and save your soldering process to **optimize** production

\* Format file video: AVI and MP4 / Resolution: 320x240 / Aspect ratio: 16:9 / Frame rate: 18 FPS

\*\*Recommended model: Dino-Lite AM2011 and equivalent.

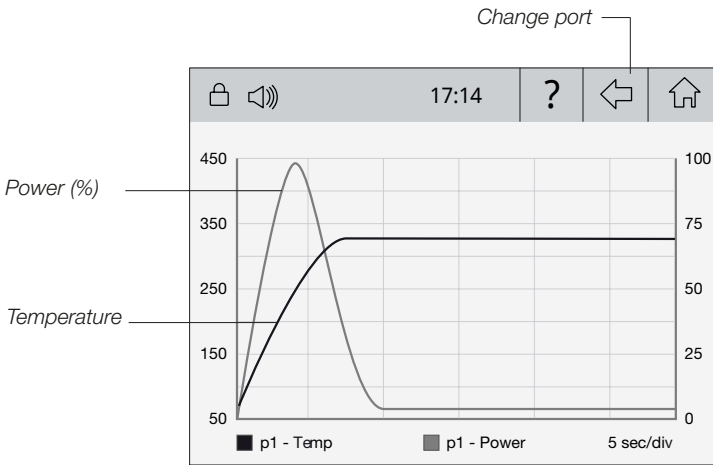
# Process analysis

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



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.



## Export graphics

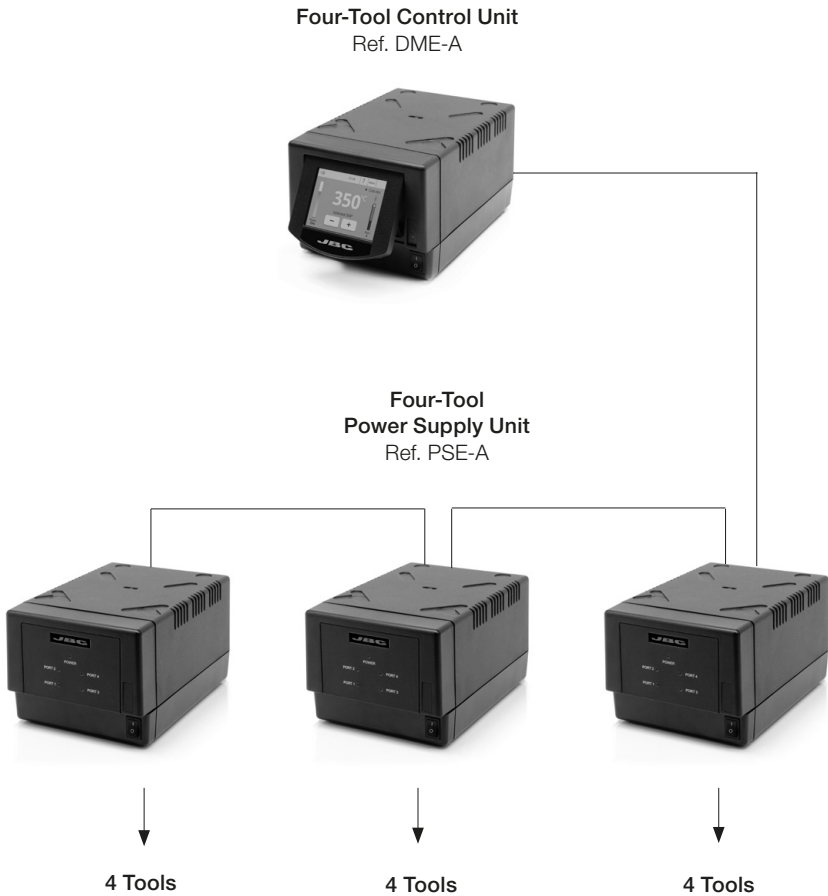
Insert a USB flash drive into the USB-A connector to save your soldering process in csv format.



## Increase x4 your DME's possibilities

Centralize control of 3 PSE Power Supply Units in a single DME and work with as many as 16 tools simultaneously.

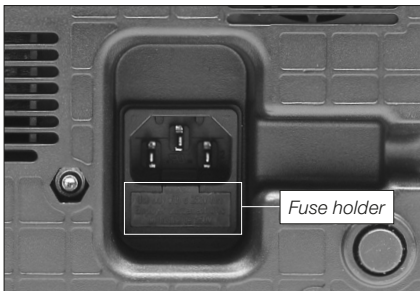
1. Connect the DME to the **PSE Power Supply Units** via the PS connector (RJ12).
2. Connect the other PSE's as follows:



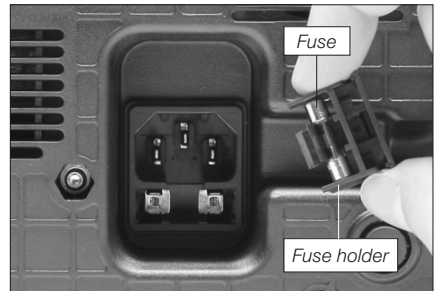
# Maintenance

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.
- 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.

## Specifications

### 4 Tools Rework station with Electric Pump

#### DMSE-1A / DMSE-2A / DMSE-9A

- Total weight: 10.7 Kg (23.5 lb)

**DME-1A** 120V 50/60Hz. Input fuse: 6A. Output: 23.5V

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

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

- Weight: 4.6 Kg (10 lb)
- Dimensions: 148 x 120 x 232 mm
- Output Peak Power: 160W per tool
- Temperature Range: 90-450°C (190-840°F)
- Idle Temp. Stability (still air):  $\pm 1.5$  °C ( $\pm 3$  °F)
- Ambient Operating Temperature: 10-40 °C (50-104 °F)
- Tip to ground resistance: <2 ohms
- Tip to ground voltage: <2mV RMS
- USB-A / USB-B / Peripherals connectors
- RJ12 connectors: 1 for Robot and 1 for PSE Power Supply Control Unit.
- RJ45 connector for LAN (Ethernet).

#### MSE-A

- Weight: 1.2 Kg (2.7 lb)
- Dimensions: 145 x 55 x 225 mm
- Vacuum: 75% / 570 mmHg / 22.4 inHg
- Flow rate: 9 SLPM

Complies with CE standards

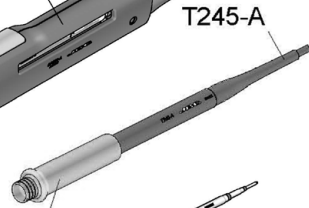
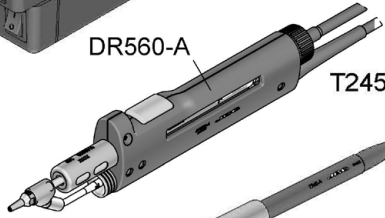
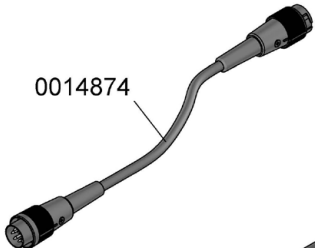
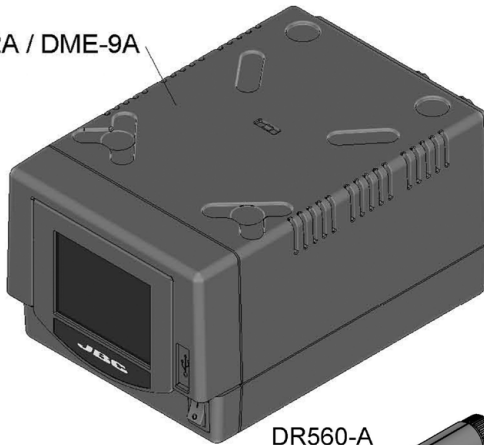
ESD protected housing "skin effect"

Exploded View · Despiece · Explosionszeichnung

**DMSE-1A** 120V  
**DMSE-2A** 230V  
**DMSE-9A** 100V

4 TOOLS REWORK STATION  
 WITH ELECTRIC PUMP

DME-1A / DME-2A / DME-9A



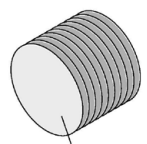
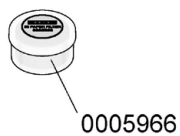
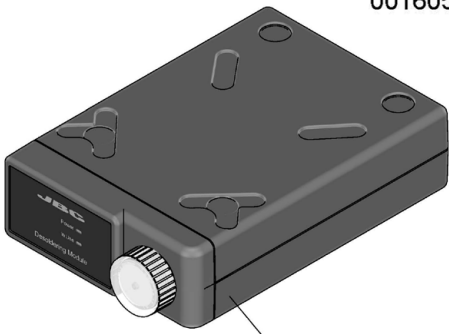
0016057

C245903

C245906



0011



SPARE	
<b>DME-1A / DME-2A</b>	
-CIRCUIT	
-ENCLOSURE	
	· TOP
	· BOTTOM
	· FRONT+D
	· BACK
<b>MSE-A:</b>	
-CIRCUIT	
-ENCLOSURE	
	· TOP
	· BOTTOM
	· FRONT
	· BACK
-PUMP	

DMS  
 DMS  
 DMS

# JBC

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## 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.

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This product should not be thrown in the garbage.  
In accordance with the European directive 2012/19/EU, electronic equipment at the end of their life must be collected and returned to an authorized recycling facility.

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