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)

DR560 Accessories
Ref. 0010211

Tip cleaning set .... 1 unit
Ref. 0965970

Long Tip Cleaning set .... 1 unit
Ref. 0965760

Tips .... 3 units
Ref. C560005
    C560013
    C560004

Tin deposit .... 1 unit
Ref. 0812620

Spanner .... 1 unit
Ref. 0780550

Filter Box .... 1 unit
Ref. 0780840
It contains 10 filters

Internal gasket .... 2 u.
Ref. 0812360

Metal tin diposit .... 1 unit
Ref. 0812630

Cartridges .... 2 units
Ref. C245903
    C245906

Filter Box .... 1 unit
Ref. 0005966
*It contains
50 filters*

Cleaning stick ....1 unit
Ref. 0786640

Cotton Filter .... 1 unit
Ref. 0781046
It contains 10 filters

Suction Filter ....1 unit
Ref. 0821830

Manual .... 1 unit
Ref. 0016050

JBC
www.jbctools.com
Premium
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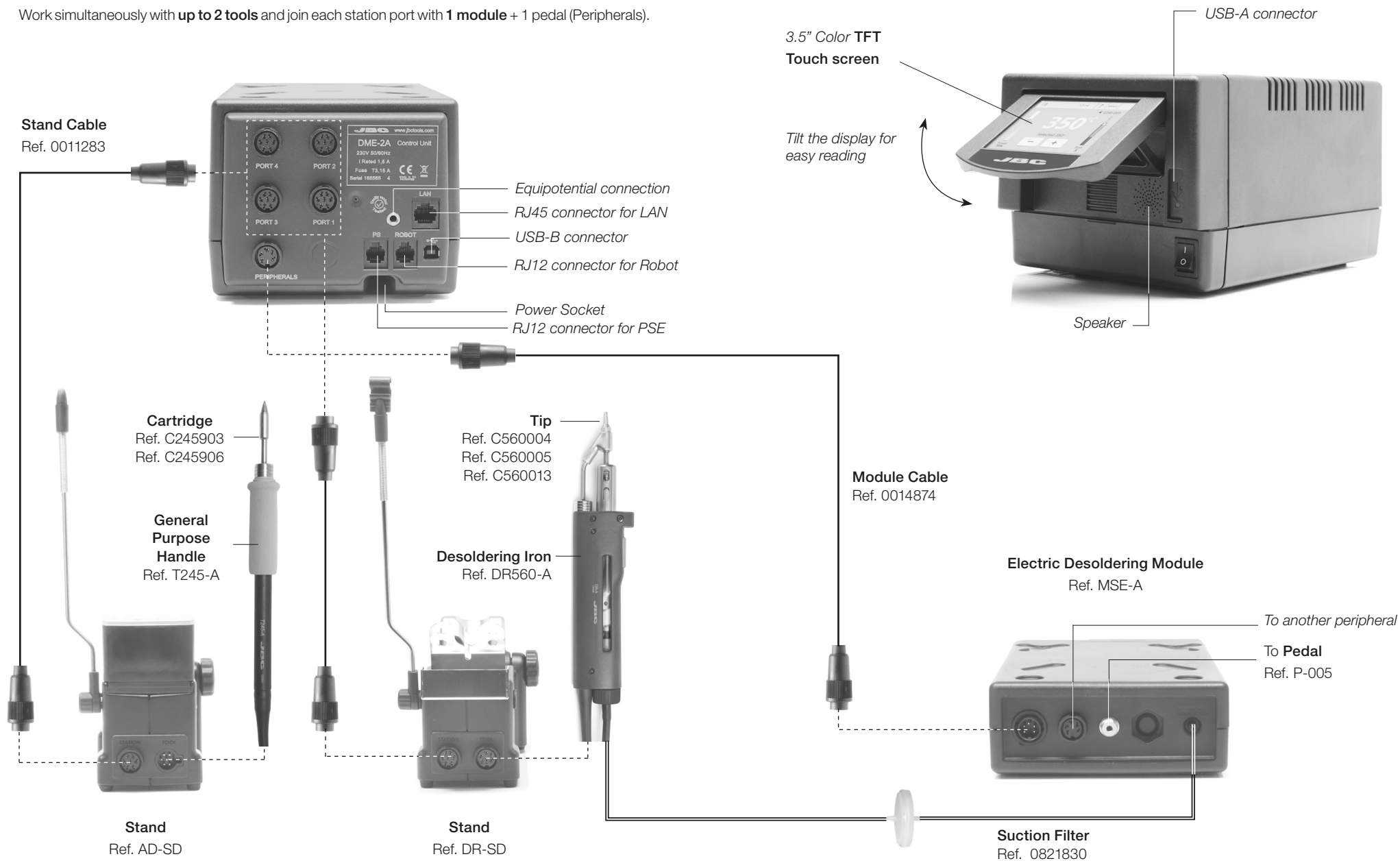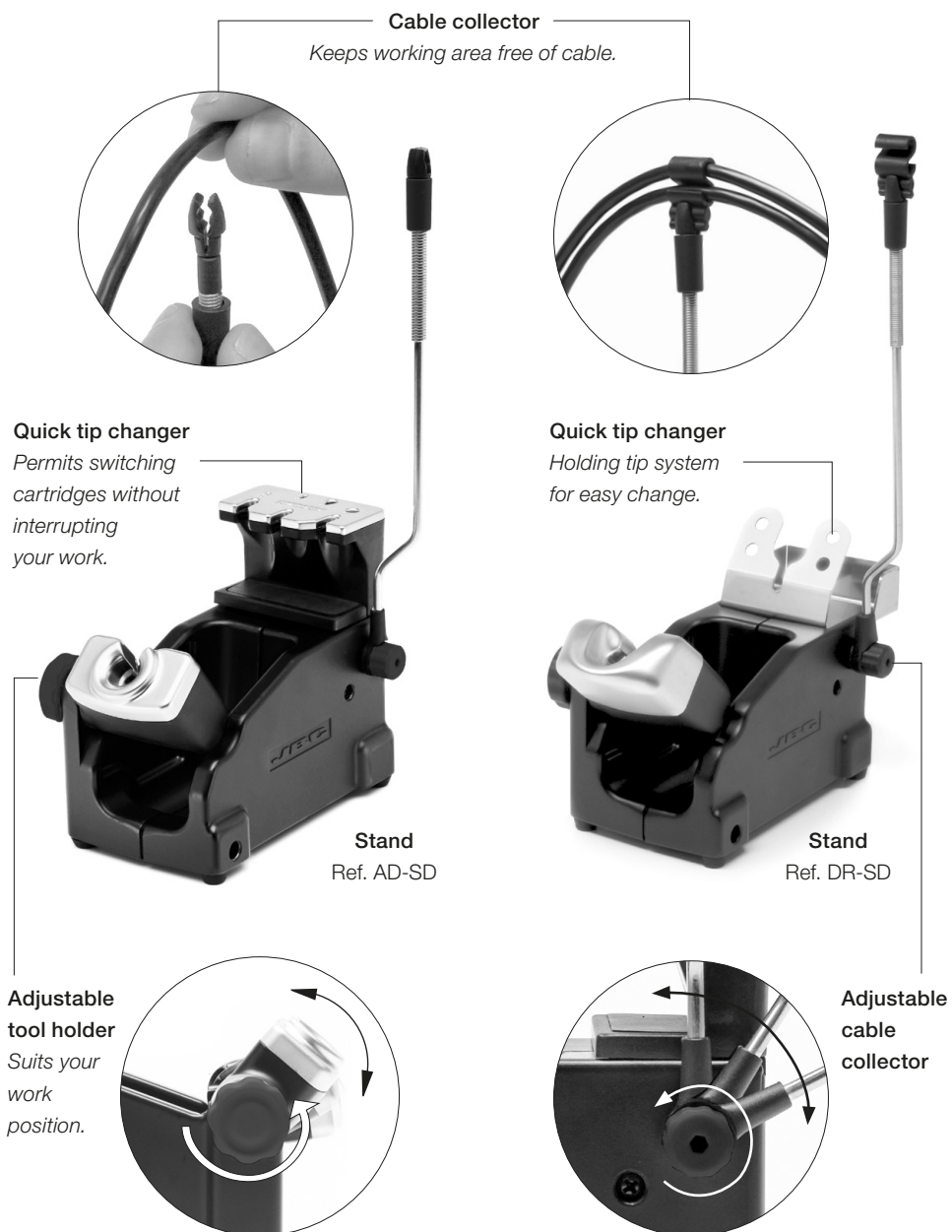Ref. DMSE-A

Features

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

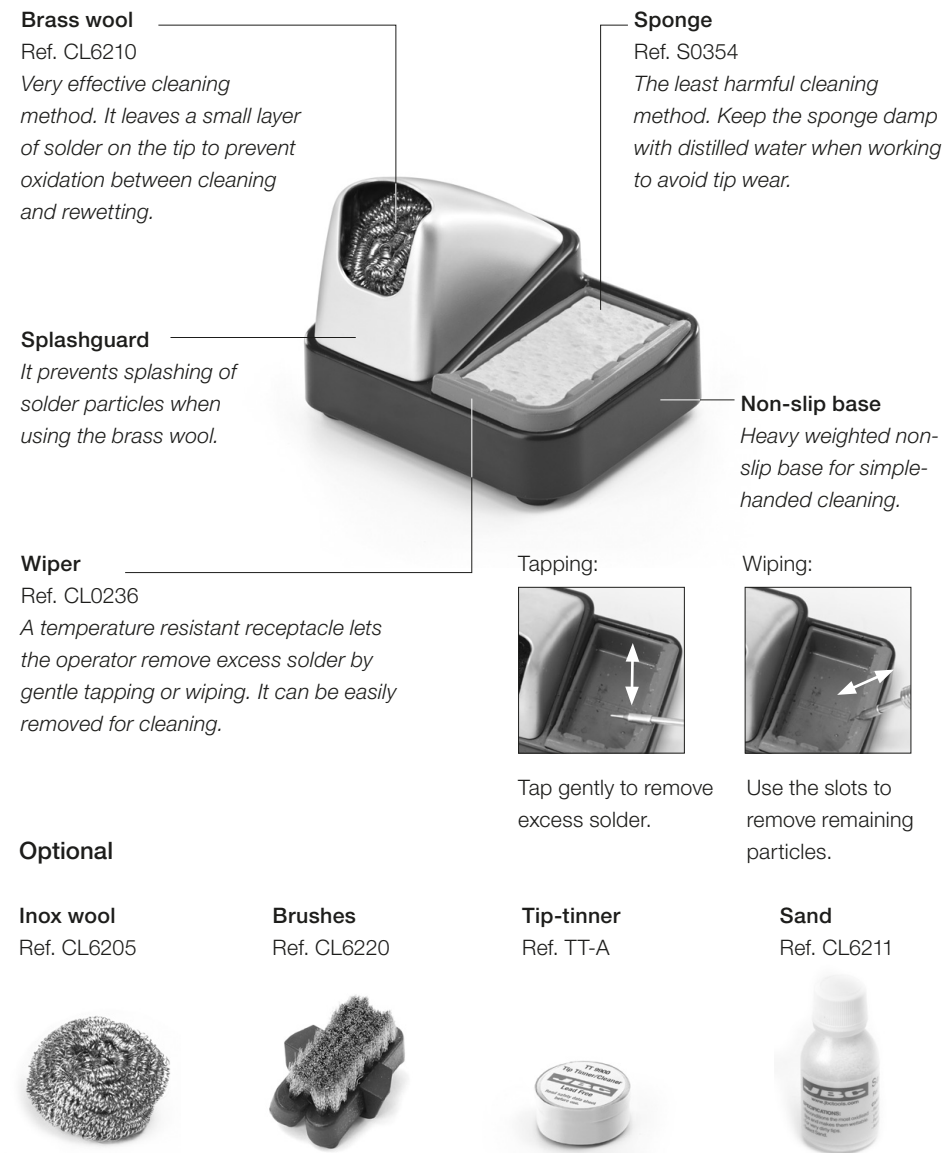
3.5" Color **TFT Touch screen**
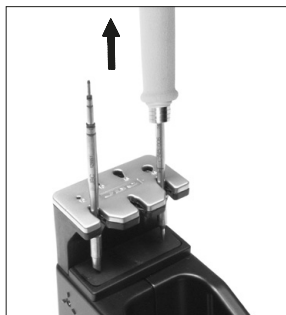
USB-A connector

Tilt the display for easy reading

Speaker

Stand Cable
Ref. 0011283

PORT 4   PORT 2
PORT 3   PORT 1

DME-2A Control Unit
230V 50/60Hz
I Rated 1,5 A
Fuse T3,15 A
Serial 166565   4

PERIPHERALS

Equipotential connection
RJ45 connector for LAN
USB-B connector
RJ12 connector for Robot
Power Socket
RJ12 connector for PSE

Cartridge
Ref. C245903
Ref. C245906

General Purpose Handle
Ref. T245-A

Tip
Ref. C560004
Ref. C560005
Ref. C560013

Desoldering Iron
Ref. DR560-A

Module Cable
Ref. 0014874

Electric Desoldering Module
Ref. MSE-A

To another peripheral

To **Pedal**
Ref. P-005

Stand
Ref. AD-SD

Stand
Ref. DR-SD

Suction Filter
Ref. 0821830

Adjustable Stands

Cable collector
Keeps working area free of cable.

Quick tip changer
Permits switching cartridges without interrupting your work.

Quick tip changer
Holding tip system for easy change.

Stand
Ref. AD-SD

Stand
Ref. DR-SD

Adjustable tool holder
Suits your work position.

Adjustable cable collector

Tip Cleaner

Improve thermal transfer by cleaning the tip after each solder joint.

Brass wool
Ref. CL6210
Very effective cleaning method. It leaves a small layer of solder on the tip to prevent oxidation between cleaning and rewetting.

Sponge
Ref. S0354
The least harmful cleaning method. Keep the sponge damp with distilled water when working to avoid tip wear.

Splashguard
It prevents splashing of solder particles when using the brass wool.

Non-slip base
Heavy weighted non-slip base for simple-handed cleaning.

Wiper
Ref. CL0236
A temperature resistant receptacle lets the operator remove excess solder by gentle tapping or wiping. It can be easily removed for cleaning.

Tapping:

Tap gently to remove excess solder.

Wiping:

Use the slots to remove remaining particles.

Optional

Inox wool
Ref. CL6205

Brushes
Ref. CL6220

Tip-tinner
Ref. TT-A

Sand
Ref. CL6211

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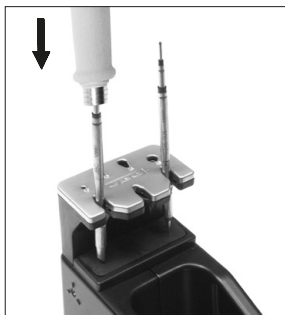
Place the handle on top of the new cartridge and press down slightly.

3. Fixing
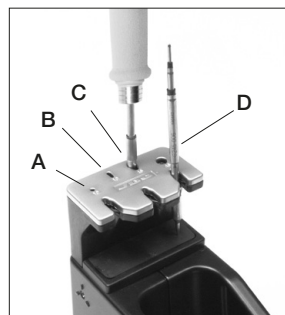
Use the holes for fixing the cartridge* as follows:
A. For straight C210.
B. For curved C210.
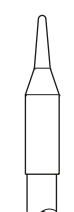**C.** For curved C245.
D. For straight C245.

*Important

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

Mark
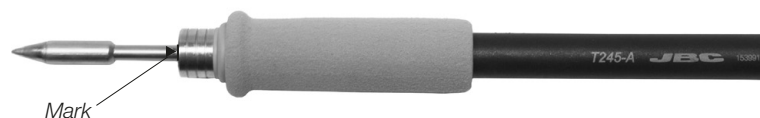
Compatible cartridges

The T245 handle works with C245 cartridges. Find the model that best suits your soldering needs in **www.jbctools.com**

Round   Chisel   Round bent   Bevel   Special models
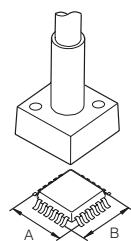
DR560 Changing Tips

This operation should be done while the tip is hot, not below 250°C, so that any tin left inside is in molten state.

1. Removing
Unscrew the tip using the spanner supplied.

2. Inserting
Fit the new tip and tighten with the spanner to make sure it is air tight.

250°C minimum

Compatible Tips

The DR560 works with C560 tips. Find the model that best suits your soldering needs in **www.jbctools.com**
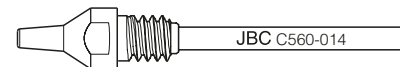Here are some C560 tips in real size (mm):
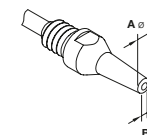
C560-001   ØA=1,4 ØB=0,6 Ømax. pin=0,4
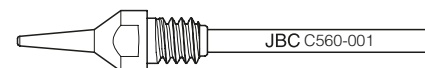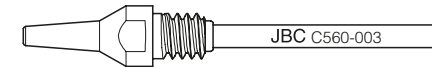
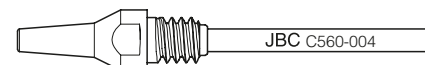**C560-002**   ØA=1,8 ØB=0,8 Ømax. pin=0,6
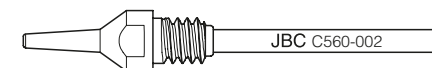
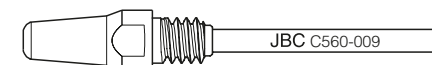**C560-014**   ØA=2,5 ØB=0,8 Ømax. pin=0,6

C560-003   ØA=2,7 ØB=1 Ømax. pin=0,8

C560-004   ØA=3,2 ØB=1,3 Ømax. pin=1,1

C560-009   ØA=5 ØB=1,3 Ømax. pin=1,1

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
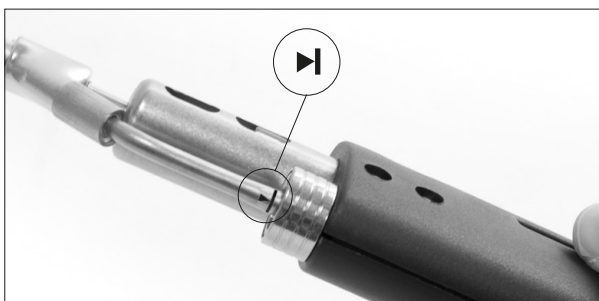Loosen the screw as shown and remove the Heating Element.

3. Placing
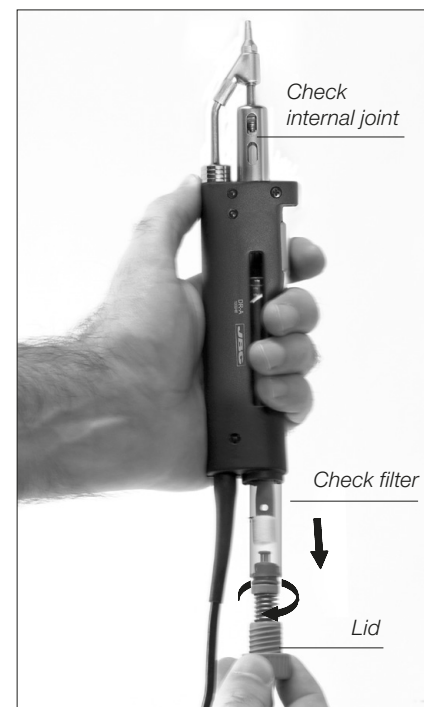Place the new Heating Element and follow the steps conversely.

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

DR560 Tin Deposit Cleaning

1. Removing the lid
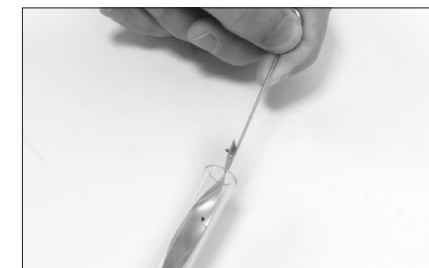

Check internal joint

Check filter

Lid

The lid must be removed with the DR560 in vertical position.

3. Inserting the deposit

The deposit must be inserted with coil filter in place, positioned between the 2 lines marked on the tin deposit.

Then the whole unit must be closed by screwing the lid.

2. Cleaning

Remove the coil to clean the inside of the deposit with the stick supplied.

The filter and internal joint must be checked and replaced if dirty or damaged.

Marks

www.jbctools.com

DR560 Tip Care

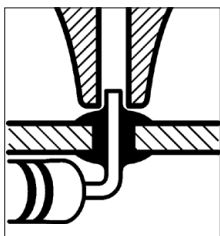The intake tube should be periodically cleaned by the largest rod.

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.
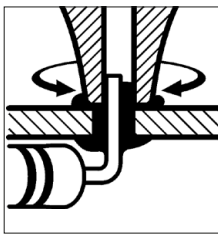
Desoldering process

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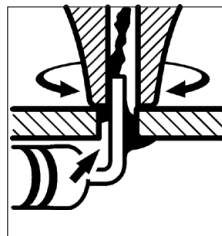
1. Placing

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 are left on a terminal after desoldering it, resolder it with fresh solder and repeat the desoldering operation.

MSE Initial Setup

Peripherals

After connecting the electric desoldering module (MSE-A), enter the **Peripherals** Menu and select the port which you want to join with the module.

1. Select the module from the list of peripheral connections. Remember your first connection is denoted as "a", the second being "b", etc. (e.g. MSE_a, MSE_b,...)

2. Press Menu or Back to save changes. Once set up, you can change the module settings by entering the **Peripherals** Menu.
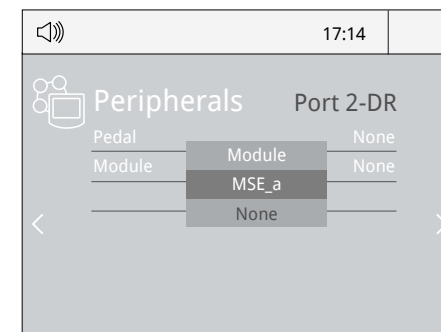
MSE Changing the pump filters

- Clean the casing with a damp cloth. Make sure to use a soft cloth when cleaning the front.
- Periodically check all cable and tube connections.
- Keep filters clean to ensure proper solder suction and replace them when necessary.

Important
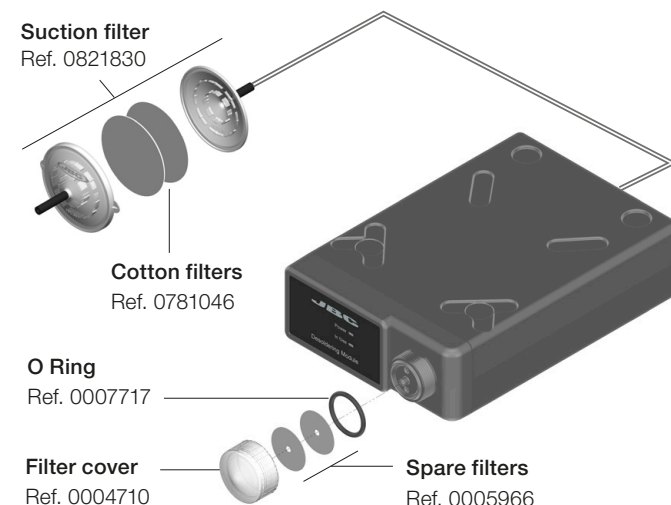Do not use sharp pointed objects to open the suction filter.

Suction filter Ref. 0821830

Cotton filters Ref. 0781046

O Ring Ref. 0007717

Filter cover Ref. 0004710

Spare filters Ref. 0005966

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

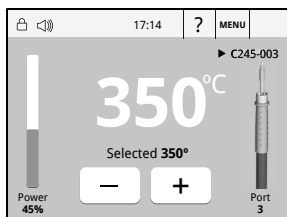When the tool is lifted from the stand the tip will heat up to the selected temperature.

2. Sleep

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

3. Hibernation

Long time in the stand

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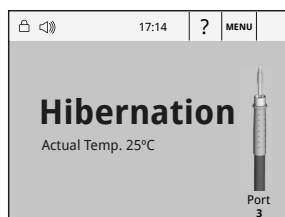

Tools Menu:
· Adjust temperature and cartridge
· Set temperature levels

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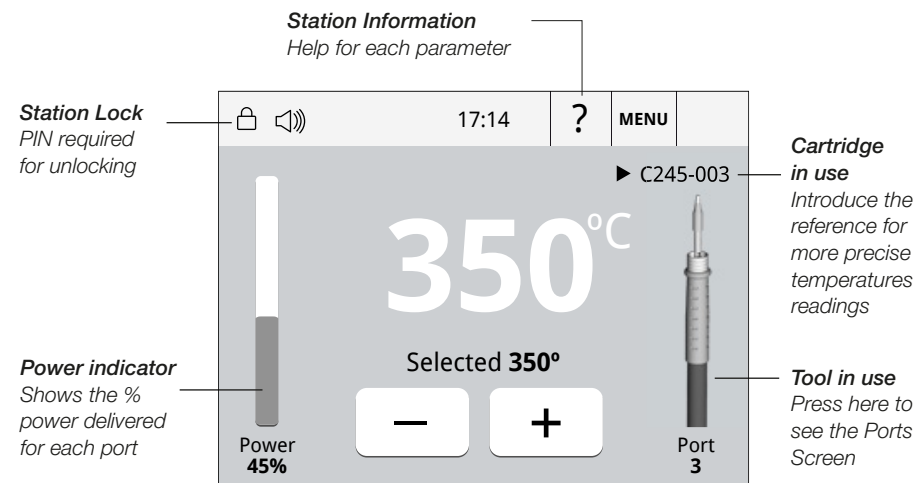 (from 0 to 9 min or no Sleep)

Tools Menu:
· Set Hibernation delay
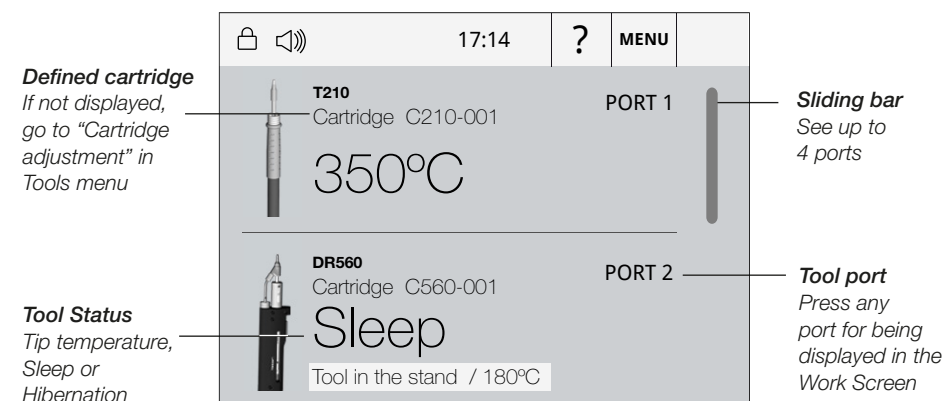 (from 0 to 60 min or no hibernation)

Work Screen

The DME-A offers an intuitive user interface which provides quick access to the station parameters.
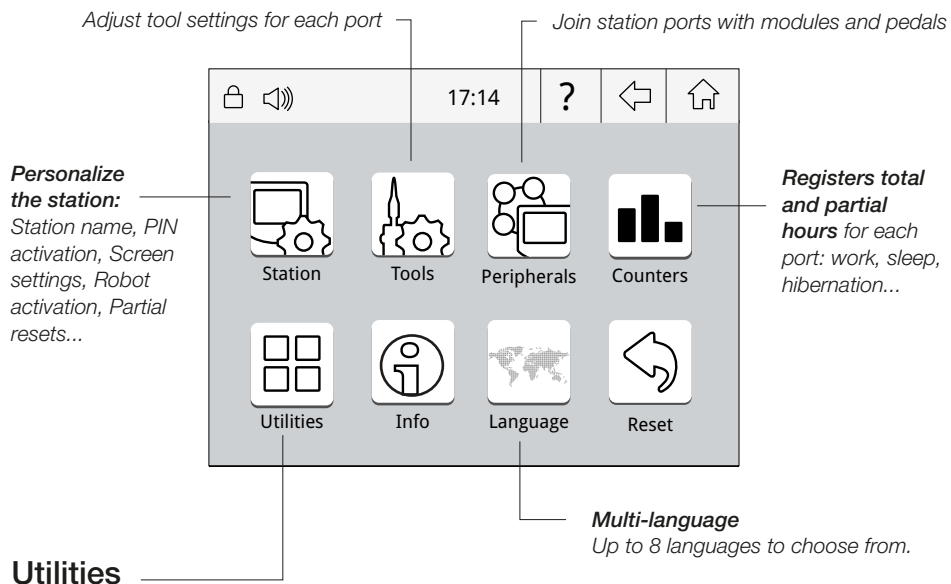
Station Information
Help for each parameter

Station Lock
PIN required
for unlocking

Power indicator
Shows the %
power delivered
for each port

Cartridge in use
Introduce the reference for more precise temperatures readings

Tool in use
Press here to see the Ports Screen

Simultaneous control of ports

See the information of all ports in real time when pressing the tool image from the Work screen.

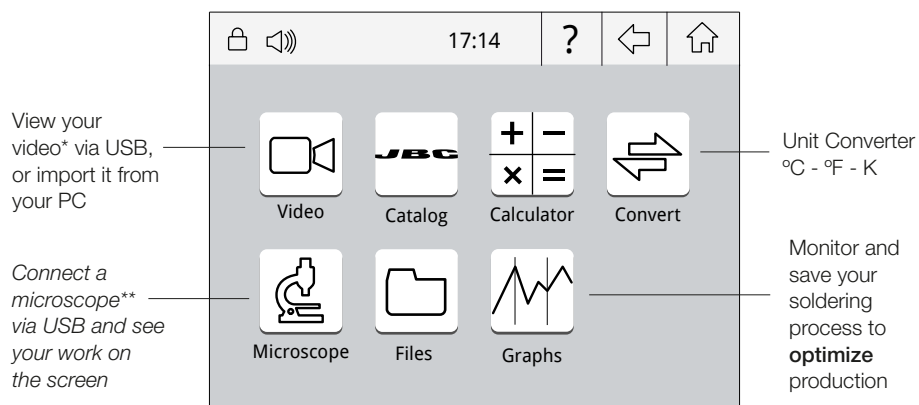*Defined cartridge*
If not displayed, go to "Cartridge adjustment" in Tools menu

Tool Status
Tip temperature, Sleep or Hibernation

Sliding bar
See up to 4 ports

Tool port
Press any port for being displayed in the Work Screen

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...

Station Tools Peripherals Counters

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

Utilities Info Language Reset

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

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

Video Catalog Calculator Convert

Microscope Files Graphs

Unit Converter
°C - °F - K

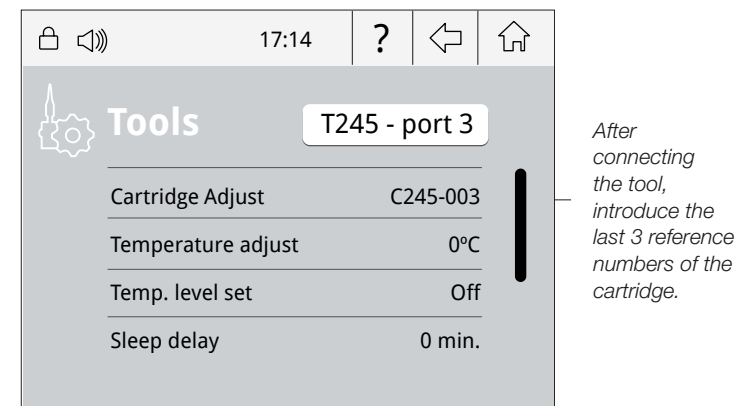Monitor and save your soldering process to **optimize** production

* Format file video: AVI and MP4 / Resolution: 320x240 / Aspect ratio: 16:9 / Frame rate: 18 FPS
**Recommended model: Dino-Lite AM2011 and equivalent.

Cartridge Adjustment

Insert the cartridge model and the station will recognize its characteristics (size and shape) to provide more accurate temperature readings.

Tools	T245 - port 3
Cartridge Adjust	C245-003
Temperature adjust	0°C
Temp. level set	Off
Sleep delay	0 min.

After connecting the tool, introduce the last 3 reference numbers of the cartridge.

System notifications

The following icons may be displayed on the status bar on the screen.

USB flash drive is connected to the USB-A.

Station is controlled by a PC.

Station is controlled by a robot.

The station is being updated by a USB flash drive.

Warning.
Press here for description.

Error.
Press here 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.

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.

Change port

Power (%)

Temperature
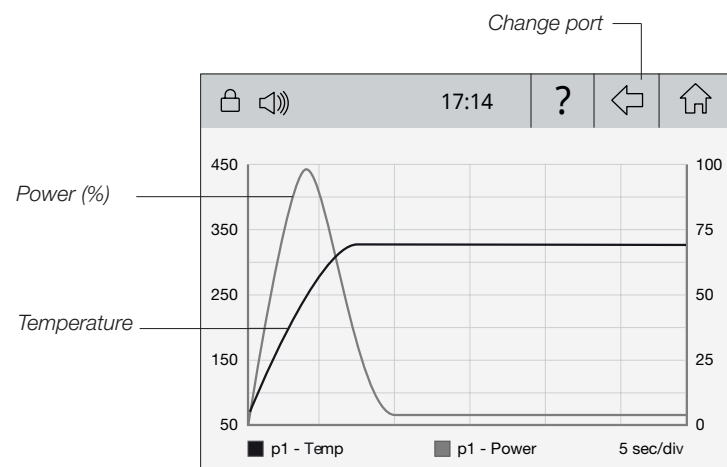
Export graphics

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


Soldering Network

Remotely manage and monitor 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 or LAN (RJ45) and the PC will automatically detect them.
3. The icon 🖥 will appear on the screen.

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.

JBC Manager software

USB Hub

LAN Hub

any DME station

any JBC station
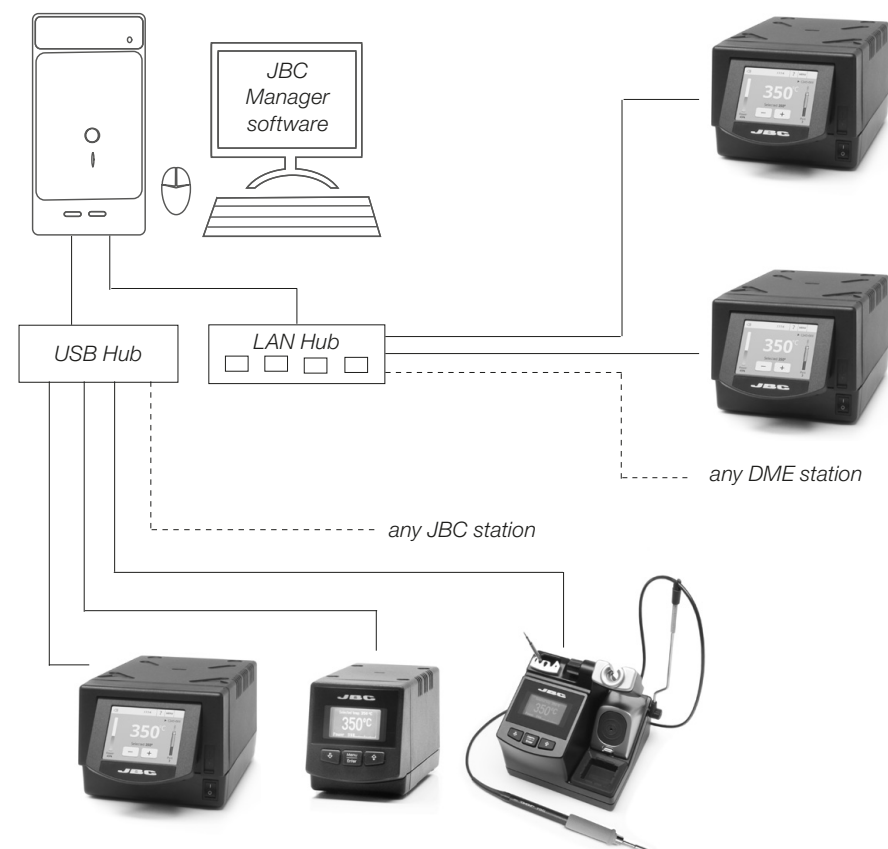
Increase x4 your DME's possibilities

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:

Four-Tool Control Unit
Ref. DME-A

**Four-Tool
Power Supply Unit**
Ref. PSE-A

4 Tools   4 Tools   4 Tools
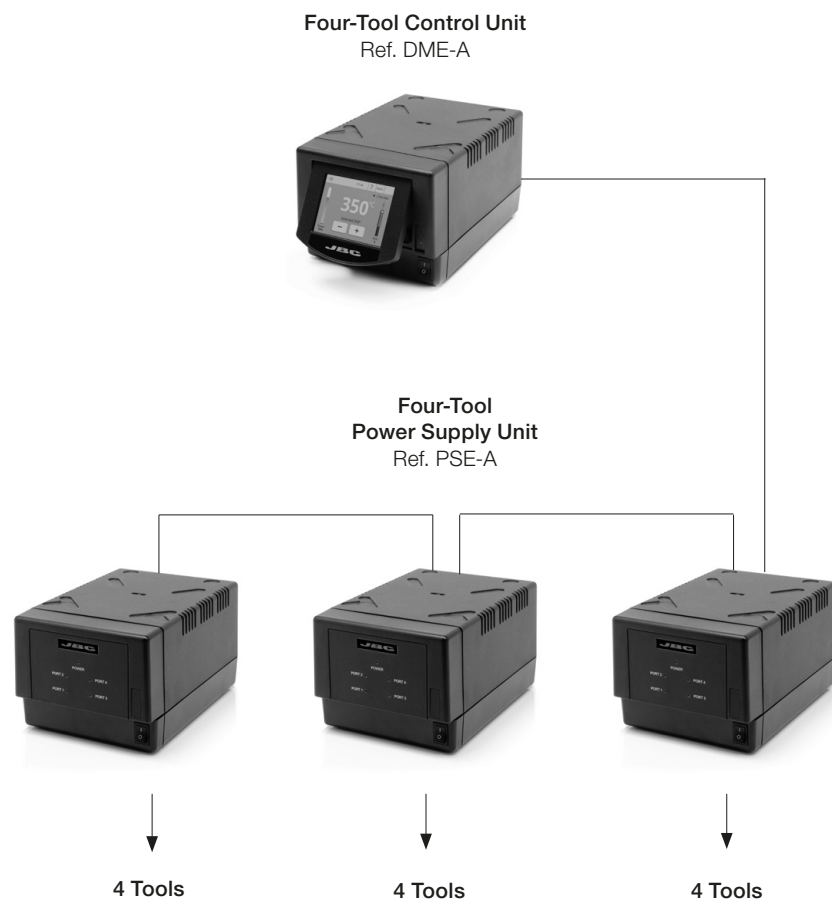
Working with Robots

Manage and monitor the station using a Robotic system.

1. Connect the tool to the station port by means of the CHB-A Converter.
2. Connect your Robot system to the station's Robot connector (RJ12).
    DB9-RJ12 Adapater available on request (Ref: 0013772).
3. Enable the Robot option in the station settings and the icon will appear:
4. Set your Robot's commands according to the Robot Communication Protocol, available on the website **www.jbctools.com/jbcsoftware-menu-115.html**.

Converter
Ref. CHB-A

Robot

**Control
Unit**

*RS-232
connection*
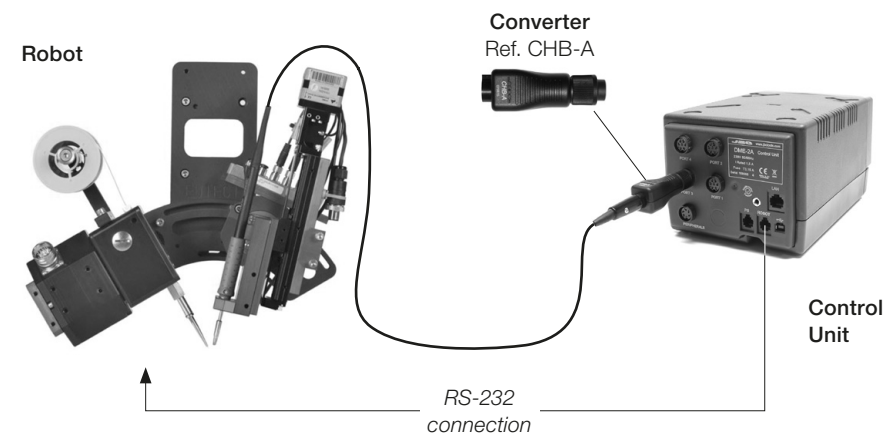
Update the station software

1. Download the update file when available at **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.

Update file
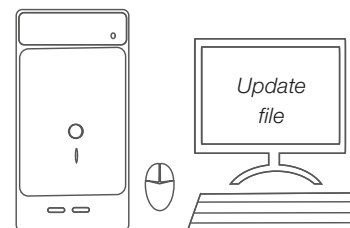
Maintenance

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:

Clean periodically

Fuse

Fuse holder
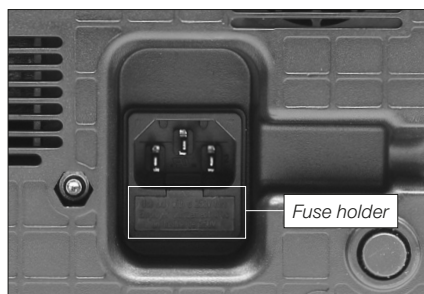
Fuse holder

1. Pull off the fuse holder and remove the fuse. If necessary use a tool to lever it off.
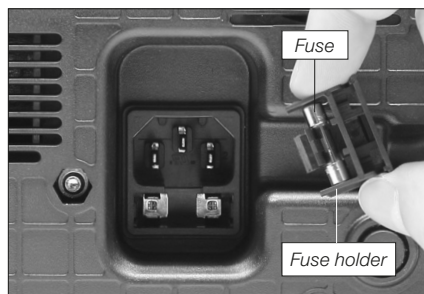
2. Press the new fuse into the fuse holder and replace it in the station.

- 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.

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 (190-840ºF)
- Idle Temp. Stability (still air): ±1.5 ºC (±3 ºF)
- Ambient Operating Temperature: 10-40 ºC (50-104 ºF)
- 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

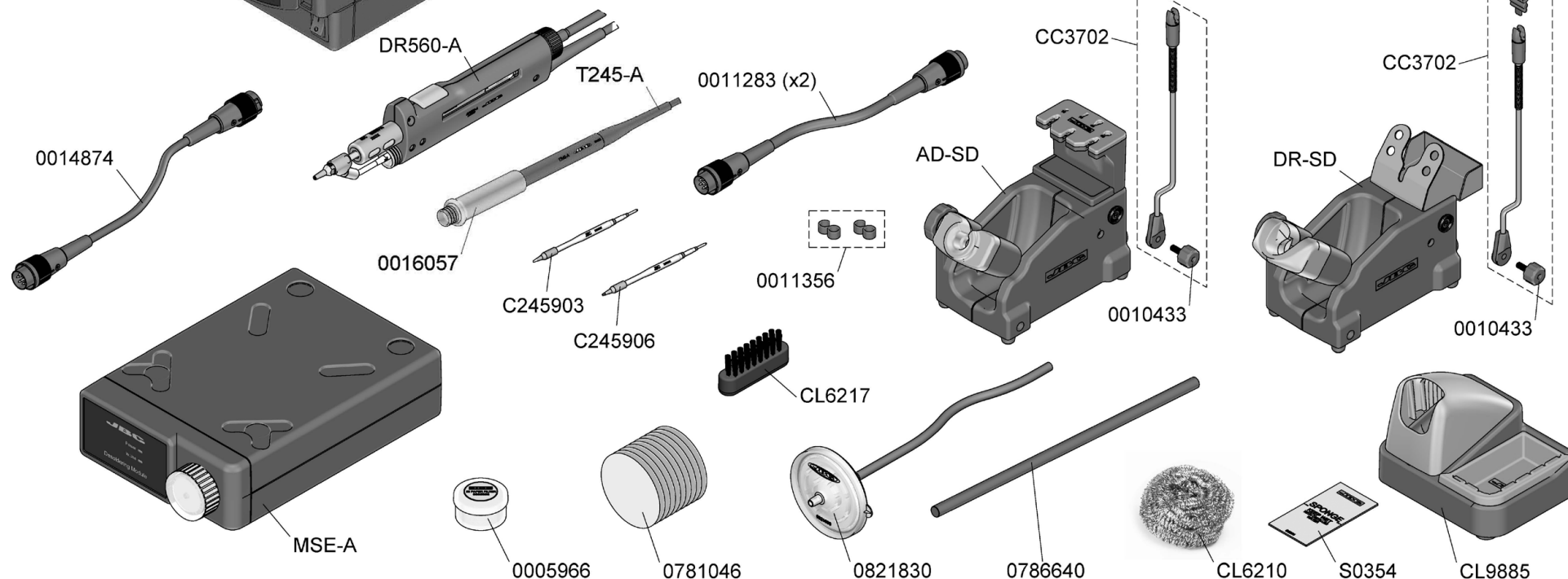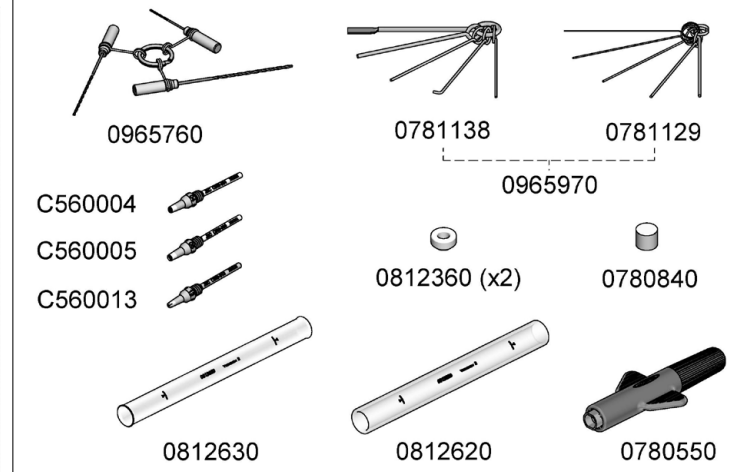Complies with CE standards
ESD protected housing "skin effect"

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

SPARE PARTS	
DME-1A / DME-2A / DME-9A:	
-CIRCUIT	0017456
-ENCLOSURE	
· TOP	0011035
· BOTTOM	0014567
· FRONT+DISPLAY	0011014
· BACK	0011861
MSE-A:	
-CIRCUIT	0017464
-ENCLOSURE	
· TOP	0015266
· BOTTOM	0014010
· FRONT	0014688
· BACK	0015261
-PUMP	0005652

DMSE-1A 120V FUSE T-6A
DMSE-2A 230V FUSE T-3,15A
DMSE-9A 100V FUSE T-8A

0965760
0781138
0781129
0965970
C560004
C560005
C560013
0812360 (x2)
0780840
0812630
0812620
0780550
0010211

DR560-A
T245-A
0011283 (x2)
CC3702
0010546
CC3702
0014874
AD-SD
DR-SD
0016057
C245903
C245906
0011356
0010433
0010433
CL6217
MSE-A
0005966
0781046
0821830
0786640
CL6210
S0354
CL9885

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