

INSTRUCTION MANUAL



Complete Rework Station with Electric Pump

Ref. RMSE-QE

Packing List

The following items are included:

JTSE Control						
Unit 1 unit						
Ref. JTSE-1A (100V - 120V)						
JTSE-2A (230V)						



Electric Desoldering
Module 1 unit
Ref. MSE-A







Stand	1	unit
Ref. JT-SE		

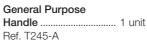
Stand 1 unit Ref. AD-SE

Stand 1 unit Ref. DR-SE











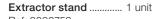


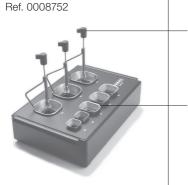




JT Accessory set

Ref. 0012332





Extractors Ref. E2184

E2164 E2064 E2052 Tripod

Ref. T2050 (Ø 39mm) T2250 (Ø 85mm)



Protectors

Ref. P2220 P2230 P2235 P4000 P4010 Suction Tube
Ref. 0932330



ESD Tip Cleaner 1 unit Ref. CL8499



Suction Cups

Ref. 0930110 Ø 10 - 0934050 (x3) Ø 4.7 - 0934070 (x1)



Nozzles

Ref. JN2015 (x1) JN2012 (x1) JN2020 (x1)



Sponge 1 unit Ref. S0354

unit Metal Brush 1 unit Ref. CL6217

it \$

Sponge 1 unit Ref. CL6210







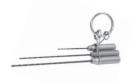
DR560 Accessories

Ref. 0022819

Tip cleaning set 1 unit Ref. 0965970



Long Tip Cleaning set 1 unit Ref. 0965760



Glass solder collector 1 unit Ref. 0812620



Spanner 1 unit Ref. 0780550



Filter Box 1 unit Ref. 0780840

It contains 10 filters



Internal gasket 1 unit Ref. 0019208

It contains 2 gaskets



Metal solder collector 1 unit

Ref. 0812630



Cotton Filter 1 unit Ref. 0781046

It contains 10 filters

Filter Box1 unit Ref. 0005966

It contains 50 filters











Pick & Place 1 unit Ref. T260-A



Bent Needles Set 1 unit Ref. 0861660



Straight Needles Set ... 1 unit Ref. 0901546



Thermocouple Type K 1 unit Ref. PH218



Cups Set 1 unit Ref. 0940163



Cleaning stick1 unit Ref. 0786640



Stand Cable 2 units Ref. 0011283



Module Cable 1 unit Ref. 0014874







Power cord

For JTSE 1 unit Ref. 0009417 (100V/120V) 0009401 (230V)

Union Flanges 1 unit Ref. 0011356

Cartridge holder 1 unit Ref. SCH-A

Manual1 unit Ref. 0023140



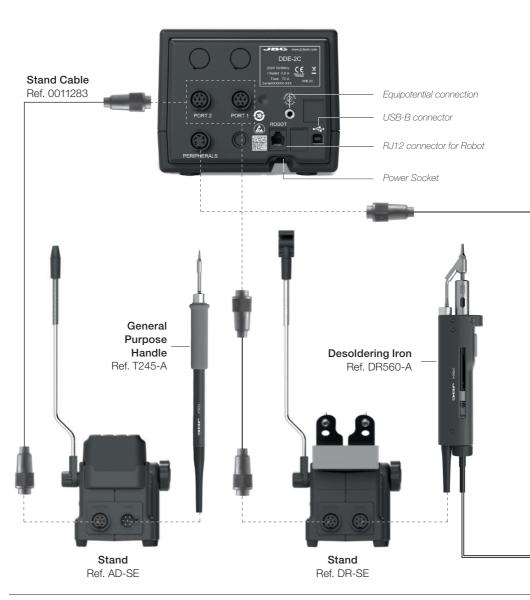
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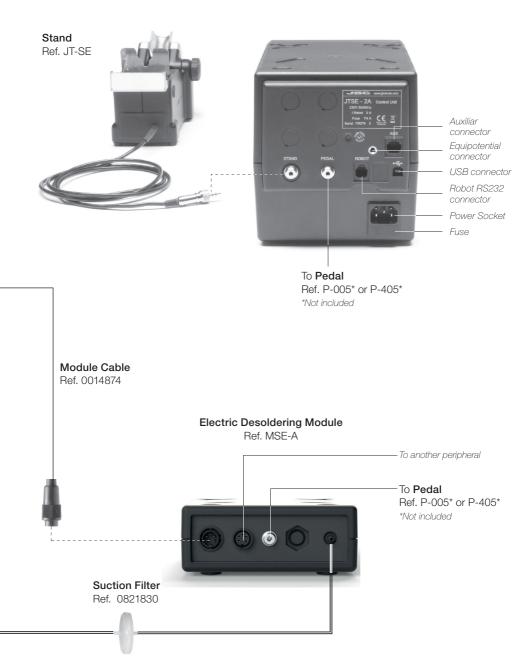
Connections

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





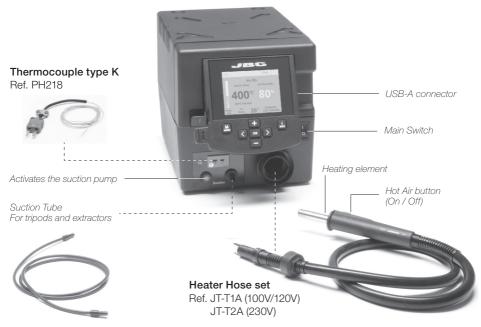
JTSE Connection



DDE Features



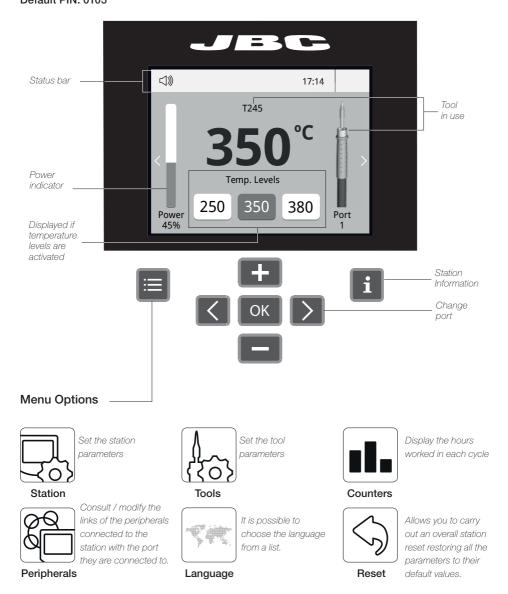
JTSE Features





DDE Work Screen

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



Advanced functionalities



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.

Graphics



Designed to avoid thermal shock when soldering Ceramic Chip components like MLCC, this new and unique feature allows controlling the heating ramp up rate of the tool to gradually increase the temperature of the component through all the phases of the soldering process. Up to 25 fully configurable soldering profiles can be stored.

JBC Net

The first system to optimize traceability in soldering

- Get greater quality and control in your production
- Manage your whole soldering process remotely in real time



Files

Export graphics

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



Update

Station update

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



System notifications

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



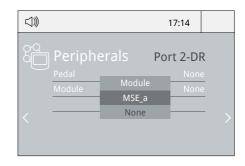
-rror

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



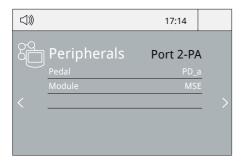
MSE Initial Set up

- 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. MS_a, MS_b,...).
- 3. Press Menu or Back to save changes.

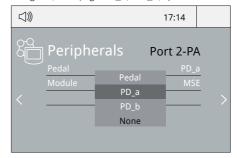


Pedal Initial Set up*

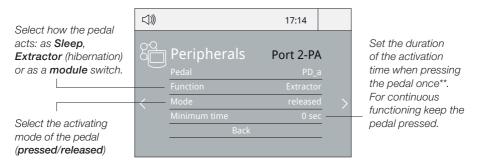
1. Enter the **Peripherals** Menu and **select the port** which you want to join to the pedal.



2. Select the pedal from the list (*Note that your first connection is denoted as "a", the second being "b", etc. (e.g. PD_a, PD_b,...).*



3. Set the pedal function according to your work needs:



*Ref. P-005 (Not included)

^{**}NB: The same can be applied inversely when continually pressing the pedal and releasing to activate.

Operation

The JBC 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 quality of soldering. 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 temperature.

2. Sleep



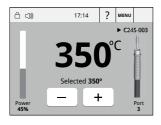
When the tool is in the stand, the temperature falls to the preset Sleep temperature.

3. Hibernation



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





Tools Menu:

- · Adjust temperature limits 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)



Desoldering process

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

1. Placing



Place the tip over the lead.

2. Rotating



When the solder melts, gently move the tip in a circular motion.

3. Aspirating



Press and hold the tool button to start the suction and continue the movement completing 3 o 4 circles.

4. Removing



Remove the tip while maintaining the suction to make sure all the solder is removed from the joint.

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

If desoldering tips does not provide enough heat to desolder leads from ground planes, consider using a preheater PCB.

Quick Tip Changer

Save time and change cartridges safely without switching the station off. Be careful, the cartridges may be hot, when placing them in the storage rack.

1. Removing



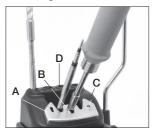
Place the cartridge in the extractor and pull the handle to remove it.

2. Inserting



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

3. Fixing



Use the holes to fix the cartridge as follows:

- A. For curved C210
- **B.** For C245
- C. For straight C210
- D. cartridge Storage rack

Important: It is essential to insert the cartridge as far as the mark for a proper connection.



DR560 Changing Tips

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.

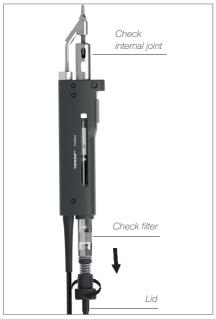
The DR560 uses C560 tips.

Find the model that best suits your soldering needs in www.jbctools.com



Glass Solder Collector Cleaning

1. Removing the lid



The lid must be unscrewed with the DR560 in a vertical position.

3. Inserting the glass solder collector

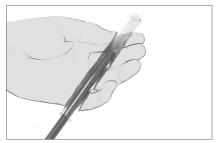
The glass solder collector must be inserted with coil filter in place, positioned between the 2 lines marked.

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

2. Cleaning



Remove the coil and clean the inside of the glass solder collector with the cleaning stick.



Check the filter and replace it if it is dirty or damaged.

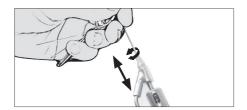


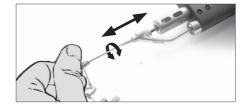
DR560 Maintenance



Tip Care

The intake tube should be periodically cleaned with the largest rod possible.





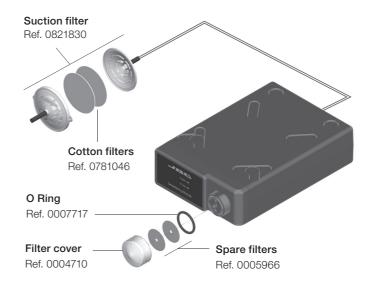
Important

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.

MSE Changing the pump filters

- Keep the casing clean by using a damp cloth. 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.



Tip Cleaner

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



Tapping:



Tap to remove excess solder.

Wiping:

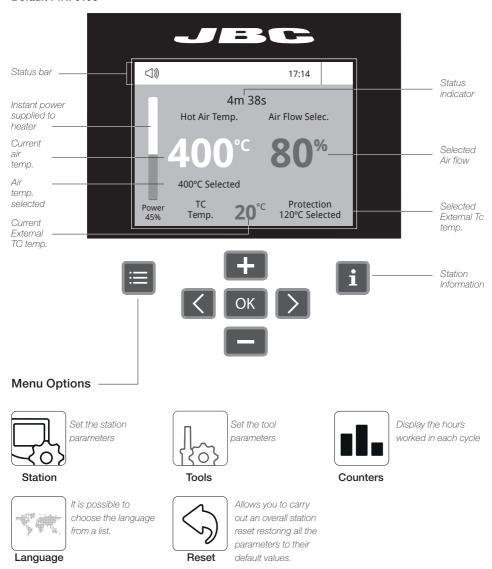


Use the slots to remove remaining particles.



JTSE / TESE Work Screen

The JTSE/TESE offers an **intuitive user interface** which provides **quick access** to station parameters. **Default PIN:** 0105



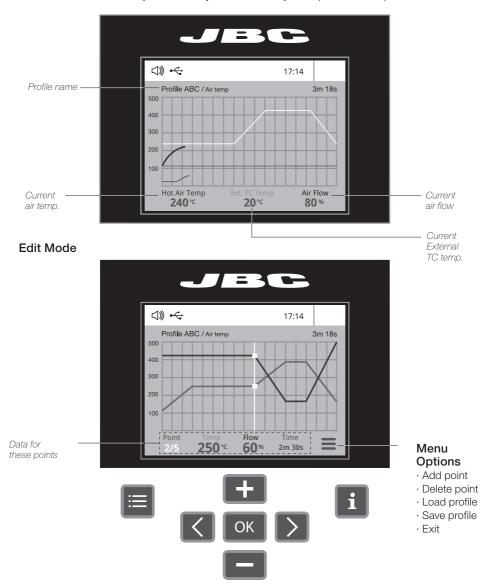
Advanced functionalities



To work with profiles it is essential to use the RWB / RWS / RWT rework arms. The Rework Arms supports the Hot Air Heater maintaining the distance and position to the component.

Profiles

In this mode you can **set up or edit** as many as 25 profiles of temperature and air flow.







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

 \triangleleft)) 17:14 450 400 350 External Power (%) 300 temp. 250 200 150 Temperature . 100 50 -Temp Ext. temp



The first system to optimize traceability in soldering

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- Manage your whole soldering process remotely in real time



Export graphics

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Station update

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Error.

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

Adjustable Stand

Adjust the tool holder angle to suit your work position.



Operation Modes

1. From the Tool Settings Menu, select the Start mode to activate the tool depending on the task.

Tool button



Press the start/stop button to blow hot air.

Pedal



Set pedal mode (press once or press continuously) depending on the task. P-005* and P-405* pedals are compatible with JTSE station.

*Not included. See our website.

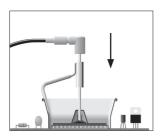
2. The tool stops blowing when pressing the start/stop button. If the stand is connected to the station and for safety it will also stop when returned to the stand.





Operation

1. Placing



Position the extractor with the appropriate suction cup and press the suction button.

2. Heating



Heat the component.

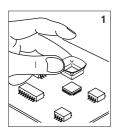
3. Extracting

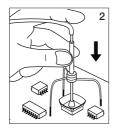


The component lifts off automatically when the solder melts.

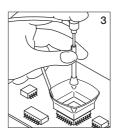
Protectors & Extractors

For small components (fig. 1 and 2). We recommend using the protector + tripod





For large components (fig. 3 and 4). We recommend using the manual extractors





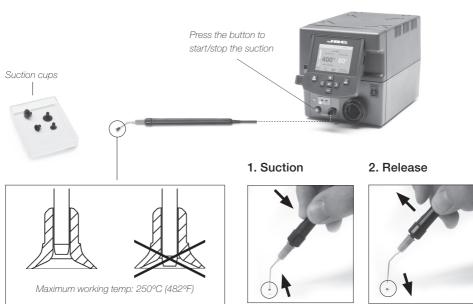
Pick & Place (not supplied with JT)

This tool helps you place and remove SMDs of any size easily thanks to the suction pump.



Operation

Choose the needle and the suction cup that best fits the component and start as follows:



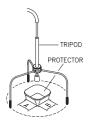
Insert the needle with the appropriate cup for a correct suction process. Make sure the needle does not protrude from the cup.

Once the suction is activated, cover the pen hole with your finger and lift off the component.

Lift your finger to release the component.

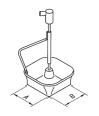


Accessories



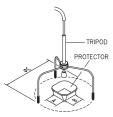
Protectors

*	Ref.	AxB (mm)	AxB (in)	*	Ref.	AxB (mm)	AxB (in)
	P3353	4,3 x 3	0.16 x 0.12		P1249	12 x 23	0.47 x 0.9
	P3786	5,2 x 5,2	0.20 x 0.20	44	P4000	12,5 x 12,5	0.49 x 0.49
	P3352	5,2 x 7,5	0.20 x 0.29		P3354	13,2 x 13,2	0.52 x 0.52
	P3355	5,2 x 9,5	0.20 x 0.37		P4025	13,5 x 21,5	0.53 x 0.85
	P3356	6,2 x 4,2	0.24 x 0.16	48	P2230	15 x 15	0.59 x 0.59
	P3785	7,2 x 7,2	0.28 x 0.28	60	P4010	17 x 17	0.67 x 0.67
	P3784	8,2 x 8,2	0.32 x 0.32		P4005	18 x 29	0.71 x 1.14
	P4035	9 x 13	0.35 x 0.51		P4030	18,5 x 18,5	0.73 x 0.73
	P4040	9,5 x 19	0.7 x 0.74		P1068	18,5 x 24	0.73 x 0.94
	P4080	9,5 x 21	9.5 x 0.83		P2685	28,5 x 28,5	1.12 x 1.12
32	P2220	10 x 10	0.39 x 0.39		P4085	31,5 x 31,5	1.24 x 1.24
	P4045	10,5 x 21	0.14 x 0.82		P2672	33 x 46	1.30 x 1.18
	P4090	11 x 16	0.43 x 0.63		P4002	50 x 50	1.97 x 1.97
24	P2235	12 x 17	0.47 x 0.67		P3357	52,5 x 14	2.06 x 0.55



Extractors

*	Ref.	AxB (mm)	AxB (in)	*	Ref.	AxB (mm)	AxB (in)
52	E2052	20 X 20	0.79 x 0.79		E4015	31,5 X 31,5	1.24 x 1.24
64	E2064	20 X 26	0.79 x 1.02		E2084	33 X 33	1.30 x 1.30
80	E2184	24 X 24	0.94 x 0.94		E2100	38 X 38	1.50 x 1.50
	E2068	27 X 27	1.06 x 1.06		E2124	45 X 45	1.77 x 1.77
	E4020	28,5 X 28,5	1.12 x 1.12				



Tripods

Ref. øC (mm)		øC (in)
T2050	39	1.53
T2250	85	3.35



Manual extractor

Ref.	øD (mm)	øD (in)
E2190	7	0.27

^{*} Reference Desk

Using the Thermocouple type K

Connect a TC type K (PH218) to the station and use it as a protection or regulation sensor. You can define its use mode by means of the "Ext TC mode" option in the "Tool" menu.

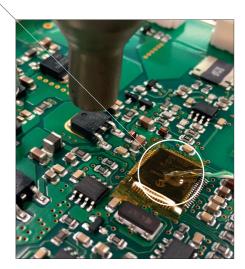
You can choose from two work modes:

Regulation: the station regulates the air temperature automatically to maintain the External Thermocouple (TC) temperature.

Protection: the station cuts the air supply off when the External Thermocouple (TC) temperature is reached.

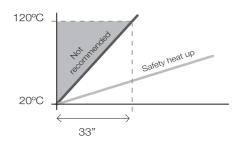
Fix the TC with Kapton Tape (Ref. PH217) as near as possible to the component being worked on. If Kapton tape is not ESD you must use an ionizer.





IPC* does not recommend exceeding ramp-up rates over $3-4^{\circ}\text{C}$ / sec. (5-7°F / sec) so as to reduce the risk of thermal stress on the PCB.

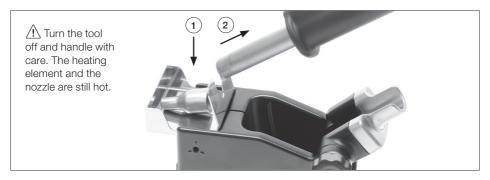
^{*} IPC was founded in the U.S. in 1957 as the Institute for Printed Circuits.





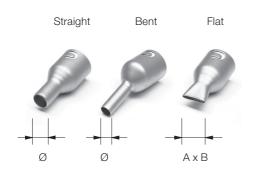
Quick Nozzle Changer

Changing nozzles quickly and safely.



Compatible Nozzles

The JT-TA works with JT nozzles. Find the model that best suits your soldering needs in www.jbctools.com



*	Ref.	Shape	Ø Size (mm)	Ø Size (in)
*	JN2020	Straight	Ø 8	Ø 0.31
	JN8417	Straight	Ø 10	Ø 0.4
*	JN2015	Bent	Ø 4	Ø 0.16
*	JN2012	Bent	Ø6	Ø 0.24
	JN6633	Bent	Ø8	Ø 0.31
	JN7637	Flat	10 x 2	0.4 x 0.08
	JN7638	Flat	20 x 2	0.8 x 0.08
	JN7639	Flat	30 x 2	1.18 x 0.08

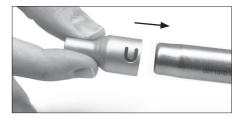
^{*} Included in JT Accessory set (Ref. 0012332)

In case of a loosely fitting nozzle:

1. Push the nozzle tab inwards with a screwdriver or flat-nosed pliers.



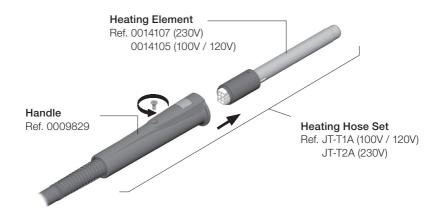
2. Insert the nozzle into the JT-TA again.



Replacing the Heating Element

Only perform this operation when the element is cold and the unit is disconnected from the mains.

- 1. Loosen the screw.
- 2. Pull the heating element out of the handle.
- 3. Connect the new heating element, ensuring it is pushed all the way in.
- 4. Tighten the screw.



Changing the JT-TA Heater Hose Set





DDE Compatibility

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

	Basic work	ing system		Peripherals			
Control Unit	Stand	Tool	Cartridge Range	MSE-A / MVE-A	MNE-A	FSE-A	P-005**
	AD CE	T210-A	C210			•	•
	AD-SE	T245-A	C245			•	•
	DN-SE	T210-NA*	C210				
		T245-NA*	C245				
DDE-C	AP-SE	AP250-A	C250				•
	PA-SE	PA120-A	C120				•
	HT-SE	HT420-A	C420			•	•
	DS-SE	DS360-A	C360	•		•	•
	DR-SE	DR560-A	C560	•		•	•

^{*} The MNE Nitrogen Flow Regulator is required.

MSE Compatibility

Module	Tool Cartridge Stand		Stand	Contro	Peripherals	
Wodule	1001	Range		DDE	DME	P-005
MSE-A	DS360-A	C360	DS-SE	•	•	•
MSE-A	DR560-A	C560	DR-SE	•	•	•

Hot Air Stations Compatibility

	Basi	c working system	Noz	Peripherals		
Control Unit	Tool	Heating Element	Stand	JN Series	TN Series	P-005
	JT-A	0014107 (230V)	IT OF			
JTSE-A TESE-B	JI-A	0014105 (100V/120V)	JT-SE			
TLOL-D	TE-B	0012374 (100V/120V/230V)	TE-SE		•	•

^{**} MSE / MVE Desoldering module required.

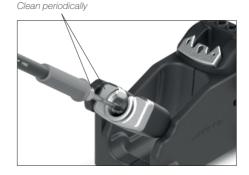
Maintenance

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.



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.
- Avoid the contact of flux 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 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.

有害物质含量表

产品中有害物质的名称及含量

+P/11 4-74	有害物质								
部件名称	铅(Pb)	汞(Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)			
烙铁头	0	0	0	0	0	0			
手柄	0	0	0	0	0	0			
电源线	0	0	0	0	0	0			
主机	0	0	0	0	0	0			
电源插座	0	0	0	0	0	0			
保险丝	0	0	0	0	0	0			
主开关	0	0	0	0	0	0			
电位连接	Х	0	0	0	0	0			
变压器	0	0	0	0	0	0			
线路板	Х	0	0	0	0	0			

O 表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572 规定的限量要求以下。

X 表示该有害物质至少在该部件的某一均质材料中的含量超出GB/T 26572 规定的限量要求。



Specifications

Complete Rework station with Electric Pump RMSE-1QE / RMSE-2QE / RMSE-9QE

JTSE-1A 100V - 120V 50/60Hz. Input fuse: 8A. Rated current: 7A **JTSE-2A** 230V 50/60Hz. Input fuse: 4A. Rated current: 3A

- Nominal power: 700W

- Temperature selection: Room temp. / 150 - 450 °C (300 - 840 °F)
Cool mode: T off. Used to blow air to room temperatur

- Ambient operating temp.: 10 - 50 °C (50 - 122 °F)

- Air flow regulation: 5 - 50 SLPM

- Vacuum: 30% / 228 mmHg / 9 inHg

- Connectors: USB-A / USB-B

RJ12 for RS232 (Robot)

Pedal for P-005

- Control Unit Weight: 1,9 kg (4.2 lb)

- Control Unit Dimensions: 148 x 184 x 140 mm (5.83 x 7.24 x 5.51 in)

 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

- Temperature Range: 90 - 450 °C (190 - 840 °F)

Idle Temp. Stability (still air): ±1.5 °C (±3 °F)
 Output Peak Power: 150W per tool
 Tip to ground resistance: <2 ohms
 Tip to ground voltage: <2mV RMS

- Ambient Operating Temperature: 10 - 50 °C (50 - 122 °F)

- Connectors: USB-A / USB-B / Peripherals connectors

RJ12 for RS-232 (Robot)

- Control Unit Weight: 3,815 kg (8.41 lb)

- Control Unit Dimensions: 148 x 120 x 232 mm (5.83 x 4.72 x 9.13 in)

MSE-A

- Ambient Operating Temperature: 10 - 50 °C (50 - 122 °F) - Vacuum: 75% / 570 mmHg / 22.4 inHg

- Flow rate: 9 SLPM- Peripheral Weight: 1,2 kg (2.7 lb)

- Peripheral Dimensions: 145 x 55 x 225 mm (5.71 x 2.17 x 8.86 in)

- Connectors Pedal for P-005

- Total Package: 480 x 340 x 380 mm / 15.90 kg 18.9 x 14.6 x 15.0 in / 35.05 lb

Complies with CE standards. ESD protected housing.



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.



