INSTRUCTION MANUAL

Hot Air Station

Ref. JTSE-A
Packing List

The following items are included:

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

**Stand** ..........................1 unit
Ref. JT-SE

**Heater hose set** ..............1 unit
Ref. JT-T1A (100V / 120V)
JT-T2A (230V)

**Extractor desk** .....................1 unit
Ref. 0008752*
* Not supplied with JT-Q stations

**JT Accessory set**
Ref. 0012332

**Extractors**
Ref. E2184
E2064
E2052

**Protectors**
Ref. P2220
P2230
P2235
P4000
P4010

**Tripods**
Ref. T2050
T2250

**Suction Tube**
Ref. 0932330

**Power cable** .............1 unit
Ref. 0009417
(100V / 120V)
0009401 (230V)

**Manual** .............1 unit
Ref. 0017172

**Suction Cups**
Ref. 0930110
Ø 10 - 0934050 (x3)
Ø 4.7 - 0934070

**Nozzles**
Ref. JN2015
JN2012
JN2020

**Kapton Tape** .....................1 unit
Ref. PH217

**Thermocouple type K** ........1 unit
Ref. PH218

**Protectors**
Ref. P2220
P2230
P2235
P4000
P4010

**Extractors**
Ref. E2184
E2064
E2052

**Protectors**
Ref. P2220
P2230
P2235
P4000
P4010

**Suction Tube**
Ref. 0932330

**Suction Cups**
Ref. 0930110
Ø 10 - 0934050 (x3)
Ø 4.7 - 0934070

**Nozzles**
Ref. JN2015
JN2012
JN2020

* Not supplied with JT-Q stations
Features

- Hot Air button (On / Off)
- Power Socket
- Fuse
- USB connector
- Robot RS232 connector
- Equipotential connector
- Auxiliar connector
- USB-A connector
- Thermocouple type K
- Heating element
- Suction Tube
  For tripods and extractors
- Heater Hose set
  Ref. JT-T1A (100V/120V)
  JT-T2A (230V)

Stand
Ref. JT-SE

www.jbctools.com

Heater Hose set
Ref. JT-T1A (100V/120V)
JT-T2A (230V)
JTSE / TESE Work Screen

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

 JTSE / TESE Work Screen

Menu Options

Station
Set the station parameters

Tools
Set the tool parameters

Counters
Display the hours worked in each cycle

Language
It is possible to choose the language from a list.

Reset
Allows you to carry out an overall station reset restoring all the parameters to their default values.

Troubleshooting

Station troubleshooting available on the product page at www.jbctools.com
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.

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

**Edit Mode**

**Data for these points**

**Profile name**

**Current air temp.**

**Current air flow**

**Current External TC temp.**

**Menu Options**
- Add point
- Delete point
- Load profile
- Save profile
- Exit

**Profiles**

**Current**

**air temp.**

**Current**

**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 joints.

**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.
- **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 mode to activate the tool depending on the task.

   **Tool button**
   
   Press
   
   Press the start/stop button to blow hot air.

   **Pedal**
   
   Press
   
   Press the Pedal to blow hot air and release to stop.

   *The P-005 Pedal is not supplied with this station. 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:

1. **Suction**
   - 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.

2. **Release**
   - Lift your finger to release the component.

**Pick & Place**
Ref. T260-A

**Bent Needles Set**
Ref. 0861660

**Straight Needles Set**
Ref. 0901546

*Maximum working temp: 250ºC (482ºF)*

Press the button to start/stop the suction
## Protectors

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<th>AxB (in)</th>
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## Extractors

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## Manual Extractor

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* 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.

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

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

* 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.
Quick Nozzle Changer

Changing nozzles quickly and safely.

⚠️ Turn the tool off and handle with care. The heating element and the nozzle are still hot.

Compatible Nozzles

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

<table>
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* 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

1. Unplug the power cable.
2. Use a spanner to unscrew the nut.
3. Make sure that the new heater tube fits into the grooves in the socket.
4. Tighten the screw.
Maintenance

Before carrying out maintenance, 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.

- 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. Insert the new fuse into the fuse holder and return it to 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

- 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

<table>
<thead>
<tr>
<th>部件名称</th>
<th>有害物质</th>
<th>铅(Pb)</th>
<th>汞(Hg)</th>
<th>镉(Cd)</th>
<th>六价铬(Cr(VI))</th>
<th>多溴联苯(PBB)</th>
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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

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

- **Temperature selection:** Room temp. / 150 - 450 °C (300 - 840 °F)  
- **Nominal power:** 700W  
- **Cool mode:** T off. Used to blow air at room temperature  
- **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  
  Pedal for P-005  
- **Control Unit Weight:** 1.9 kg (10.86 lb)  
- **Control Unit Dimensions:** 148 x 184 x 140 mm (5.83 x 7.24 x 5.51 in)  

- **Total Package:** 474 x 368 x 195 mm / 6,010 kg  
  18.7 x 14.5 x 7.7 in / 13.24 lb

Complies with CE standards.  
ESD protected.
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.