new

Excellence
range

JBC

www.jbctools.com

A global organization at your service

JBC is a global company with a distributor network spanning 5 continents that guarantees a solid commercial organization with quick and efficient service.

The power of experience

More than 80 years of experience have placed JBC at the technological forefront of tools for soldering and rework operations in electronics.Innovation, efficiency and reliability are the key features of a wide range of products which have been designed to satisfy the most demanding requirements of professionals.

High technology, superior quality

Product perfection is one of the main objectives of JBC's improvement and development program. The R&D department has created the most innovative soldering technologies, which JBC is proud to present in this catalogue.

CE

ESD safe

All JBC products comply with CE standards and EDS recommendations.

BORN FOR LEAD FREE

JBC Soldering SL. reserves the right to update, modify or delete any information without previous notice.

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The new generation of JBC

The Excellence range of JBC has become the smartest choice for professionals in electronics

More functions, better quality in soldering

The incorporation of the new functions and the possibility to modify more parameters means you can get the best quality results in the soldering joints with graphics in real time, partial counters, tool port monitoring...

From customizing to total control

Our soldering and rework equipment has a great capacity to suit your needs. You can manage and monitor groups of stations remotely thanks to their multiple connections: USB, LAN, Robot and peripheral modules.
It can also store settings which can be easily exported.

The best support for your work

Use our innovative applications to complement your work such as the microscope, file storage, unit converter, calculator, video and even an comprehensive station help to assist you at anytime.

Two product lines:

Excellence range

Excellence range **Touch**

Features

Excellence range

Ref. DDE, NAE, HDE

Excellence Touch range

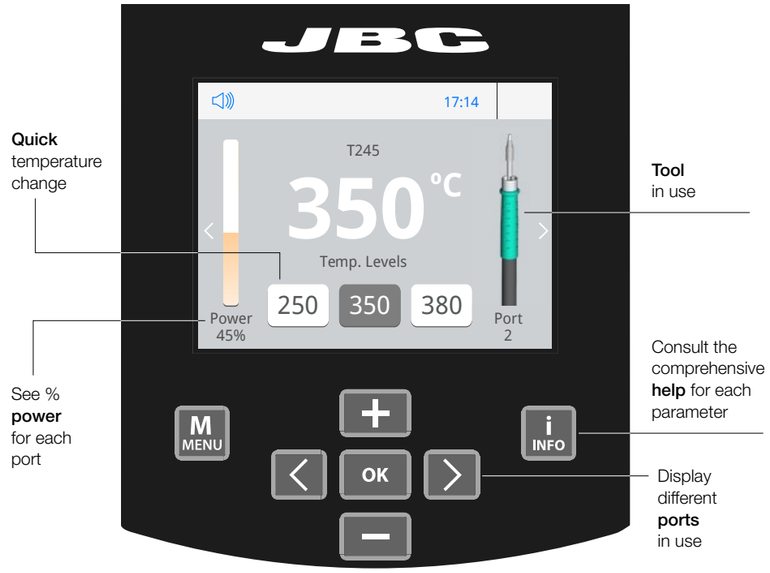
Ref. DME

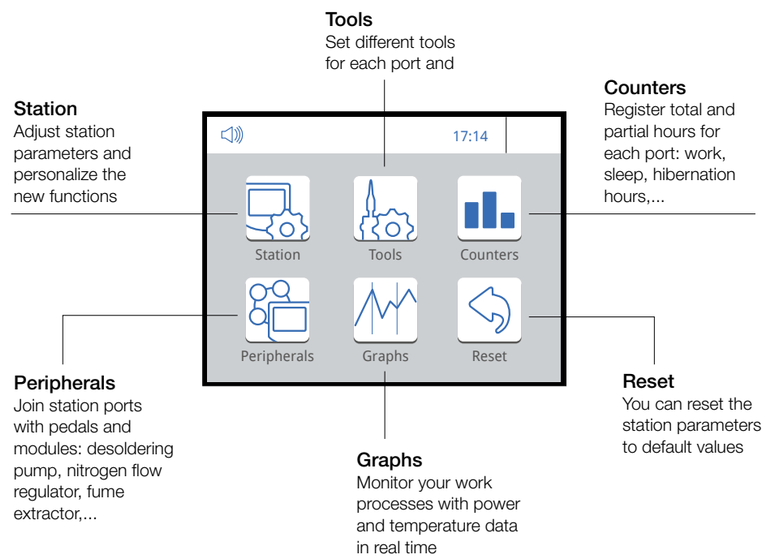
	Excellence range	Excellence Touch range
Station name	✓	✓
Adjustable sound		✓
Date and time	✓	✓
Screen Calibration		✓
Screensaver		✓
Screen lock		✓
PIN activation	✓	✓
Tool preset	✓	
Cartridge adjustment		✓
Partial counters	✓	✓
Peripherals	✓*	✓
Communications:		
Robot	✓	✓
LAN Ethernet		✓
USB-B	✓	✓
USB-A	✓	✓
Graphics	✓	✓
Utilities		✓
Reset by menu	✓	✓
Simultaneous control of ports		✓
Complete Help	✓	✓

* NASE / NANE stations can only be joined with the pedal

Excellence range

See for yourself all the benefits





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Adjustable TFT screen

2.8” color display with capacitive keyboard facilitates user interaction

Intuitive Menu

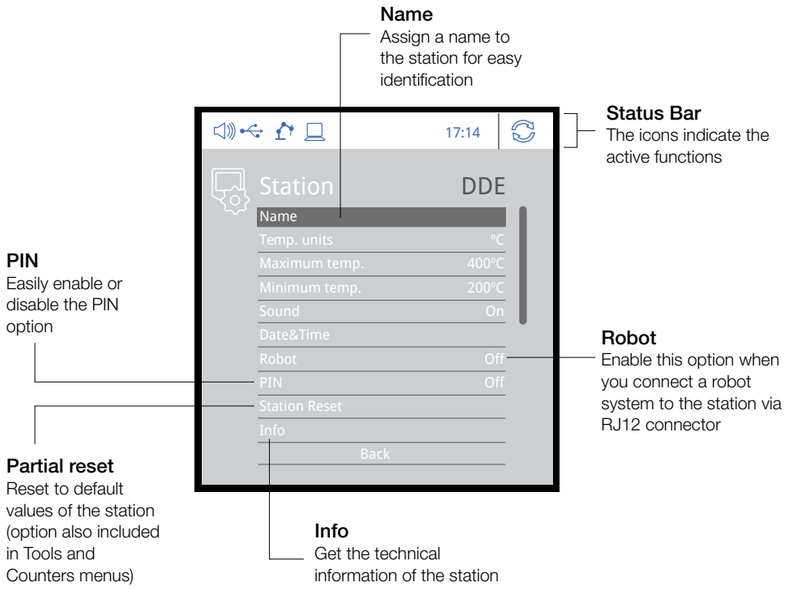
Easy browsing for working with total comfort

Quick access

The new interface provides quick access to all parameters

Station customizable

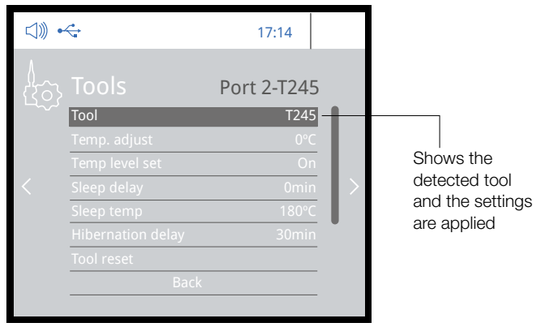
Set the station parameters and personalize the new functions



Tool Preset

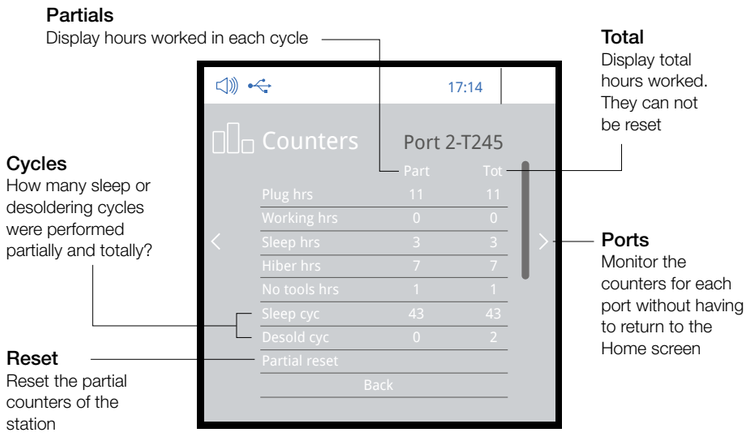
Set the tool before connecting

The stored settings are activated only when the station detects a tool is connected



Partial Counters

Display the hours worked in each cycle



Join station ports with 1 module and 1 pedal

Select the most appropriate peripherals according to your soldering or desoldering needs

Electric Desoldering Module
Ref. MSE

Pneumatic Desoldering Module
Ref. MVE

Nitrogen Flow Regulator
Ref. MNE

Fume Extractor Switch
Ref. FSE

Pedal
Ref. P-005

Now with the Excellence stations you can work with up to 4 desoldering irons

Set the working mode of the pedal to activate a module or the Sleep feature of the tool

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Peripherals

Multiple possibilities for greater production

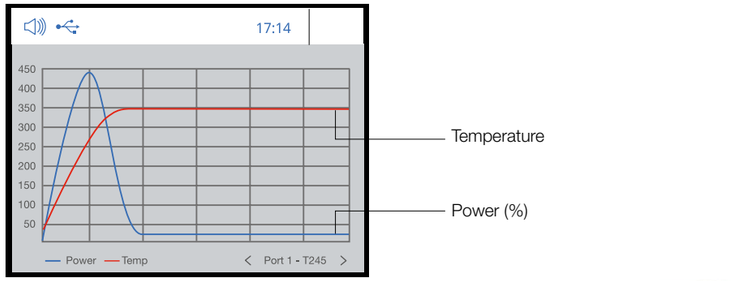
Graphics

Monitor your work with power and temperature data in real time

Analyze graphics from your PC

Analysis of the soldering process

It helps you select the best tip for your work and see the quality of each soldering joint



Export graphics
Insert a USB flash drive into the USB-A connector **before starting the graphics** and data will be copied in CSV format.

Robots

Automate the soldering process and control the settings from your Robot

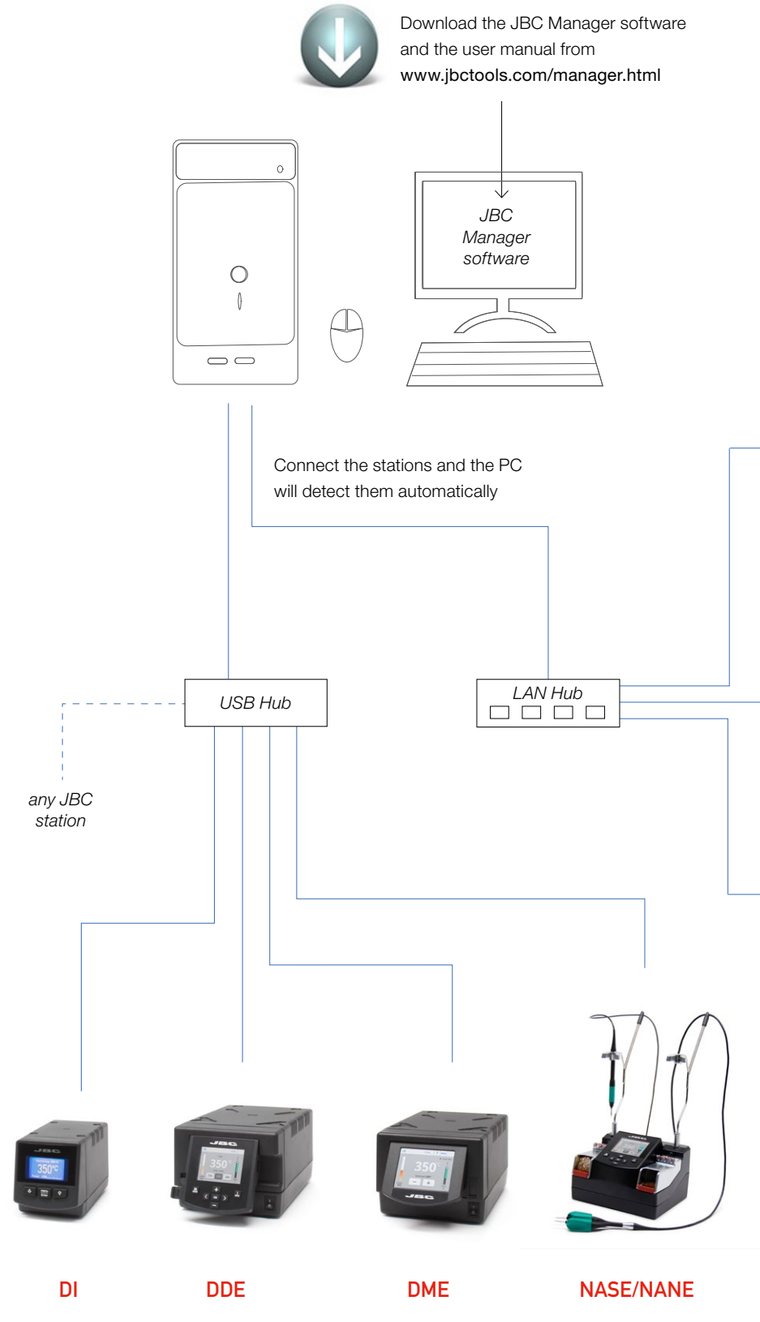
For very repetitive jobs requiring precision

Download the Robot Communication Protocol from
www.jbctools.com/jbcsoftware-menu-115.html

Connection
RS-232 / RS-485

Remote Work Management

Configure and control all your company's JBC stations via PC



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B·Net

your Soldering Net

Centralize the control of your work via USB

Organize groups of stations and set all parameters at the same time

Excellence range

Work with 2 tools simultaneously

The station allows a simultaneous connection of 2 tools for soldering or desoldering.

For a basic working system you need 1 tool, 1 stand and 1 cartridge.

Each tool can be joined with **1 pedal** and **1 module** such as the MSE / MVE Desoldering Modules, the KNE Nitrogen Flow Regulator or the FSE Fume extractor.

The user can set **different tools** for each port, even without having to connect them.

New stations

Provide you with all the Excellence range features
Compatible with all JBC Tools & Cartridges

DDE · 2 Tools Control Unit

Ref. DDE-1B 120 V, DDE-2B 230 V, DDE-9B 100 V

Software updating
Insert a USB flash drive with the station's latest version.
Download it from **www.jbctools.com**

Specifications

Dimensions	173 x 282 x 141 mm	**Output peak power**	150W per tool
Weight	4,3 Kg (9,3 lb)	**Temperature range**	90 - 450 ºC / 190 - 840 ºF (±5%)
Idle temp. stability (still air)	±1.5 ºC / ±3 ºF	**Tip to ground voltage**	< 2 mV RMS
Ambient operating temp.	10 - 40 ºC / 50 - 104 ºF	**Tip to ground resistance**	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	**Robot connector**	RJ12 (RS-232 Protocol)
Voltage	**DDE-1B** 120V 50/60Hz. Output: 23,5V **DDE-2B** 230V 50/60Hz. Output: 23,5V **DDE-9B** 100V 50/60Hz. Output: 23,5V	**Fuse**	Overload protection **DDE-1B** 120V 50/60Hz. Input fuse: 4A **DDE-2B** 230V 50/60Hz. Input fuse: 2A **DDE-9B** 100V 50/60Hz. Input fuse: 5A

Compatible peripherals

Freely combine modules and pedals to get your complete and personalized set-up

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Excellence range

MSE-A · Electric Desoldering Module

MVE-A · Pneumatic Desoldering Module

MNE-A · Nitrogen Flow Regulator

FSE-A · Fume Extractor Switch

P-005 · Pedal

Peripherals adapted to work **only with Excellence stations**

Excellence range

The ideal solution for intensive soldering jobs requiring prolonged and high thermal demands

HDE · Heavy Duty station

Ref. **HDE-1B** 120 V, **HDE-2B** 230 V, **HDE-9B** 100 V

Composition

- HDE Control Unit
- HD-SD Stand
- T470-A General Purpose HD Handle
- CL9885 Tip Cleaner

Specifications

Dimensions	145 x 120 x 225 mm	**Output peak power**	250 W
Weight	5,9 Kg (13,1 lb)	**Temperature range**	90 - 500 ºC / 190 - 932 ºF
Idle temp. stability (still air)	±1.5 ºC / ±3 ºF	**Tip to ground voltage**	< 2 mV RMS
Ambient operating temp.	10 - 40 ºC / 50 - 104 ºF	**Tip to ground resistance**	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	**Robot connector**	RJ12 (RS-232 Protocol)
Voltage	**HDE-1B** 120V 50/60Hz. Output: 47V **HDE-2B** 230V 50/60Hz. Output: 47V **HDE-9B** 100V 50/60Hz. Output: 47V	**Fuse**	Overload protection **HDE-1B** 120V 50/60Hz. Input fuse: 4A **HDE-2B** 230V 50/60Hz. Input fuse: 2A **HDE-9B** 100V 50/60Hz. Input fuse: 4A

NASE / NANE · Nano stations

Ref. **NASE-1B** 120 V, **NASE-2B** 230 V, **NASE-9B** 100 V
Ref. **NANE-1B** 120 V, **NANE-2B** 230 V, **NANE-9B** 100 V

The NANE stations are supplied with 2 Nano Purpose Handles

Specifications

Dimensions	170 x 90 x 135 mm	**Output peak power**	14 W per tool
Weight	1.8 Kg (4.0 lb)	**Temperature range**	90 - 450 ºC / 190 - 840 ºF
Idle temp. stability (still air)	±3 ºC / ±5.5 ºF	**Tip to ground resistance**	< 2 ohms
Ambient operating temp.	10 - 40 ºC / 50 - 104 ºF	**Robot connector**	RJ12 (RS-232 Protocol)
Communication connectors	USB-A / USB-B	**Fuse**	Overload protection **NAE-1B** 120V 50/60Hz. Input fuse: 0,5A **NAE-2B** 230V 50/60Hz. Input fuse: 0,2A **NAE-9B** 100V 50/60Hz. Input fuse: 0,5A
Voltage	**NAE-1B** 120V 50/60Hz. Output: 8.5V **NAE-2B** 230V 50/60Hz. Output: 8.5V **NAE-9B** 100V 50/60Hz. Output: 8.5V		

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Excellence range

For very small-sized components requiring the highest precision such as chips 0402, 0201,...

P-005 Pedal
Activate the hibernation mode with the pedal. This avoids thermal stress while placing the component on the PCB with the Nano Tweezers.

Cleaning and extraction set (x2)
It consists of a splashguard and an easy extractor, which facilitates single-handed cartridge change.

Excellence range

For soldering and desoldering all types of components, SMD, through-hole, pad cleaning,...

DDSE / DDVE · Rework stations

Ref. **DDSE-1B** 120 V, **DDSE-2B** 230 V, **DDSE-9B** 100 V
Ref. **DDVE-1B** 120 V, **DDVE-2B** 230 V, **DDVE-9B** 100 V

Composition

- DDE Control Unit
- AD-SD & DR-SD Stands
- T245-C Soft Thermal Insulator Handle
- DR560 Desoldering Iron
- CL9885 Tip Cleaner
- MSE Electric Desoldering Module (only with DDSE stations)
- MVE Pneumatic Desoldering Module (only with DDVE stations)

Specifications

Dimensions	See individual modules	**Output peak power**	150 W per tool
Weight	9,1 Kg (20 lb)	**Temperature range**	90 - 450 ºC / 190 - 840 ºF
Idle temp. stability (still air)	±1.5 ºC / ±3 ºF	**Tip to ground voltage**	< 2 mV RMS
Ambient operating temp.	10 - 40 ºC / 50 - 104 ºF	**Tip to ground resistance**	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	**Robot connector**	RJ12 (RS-232 Protocol)
Voltage	**DDE-1B** 120V 50/60Hz. Output: 23,5V **DDE-2B** 230V 50/60Hz. Output: 23,5V **DDE-9B** 100V 50/60Hz. Output: 23,5V	**Fuse**	Overload protection **DDE-1B** Input fuse: 4A **DDE-2B** Input fuse: 2A **DDE-9B** Input fuse: 5A
Vacuum (MSE)	75% / 570 mmHg / 22.4 inHg	**Flow rate**	9 SLMP (MSE), 15 SLMP (MVE)
Vacuum at 6 bar (MVE)	90% / 680 mmHg / 26.8 inHg	**Air pressure range supply MVE**	4-6 bar

RMSE / RMVE · Complete Rework stations

Ref. **RMSE-1C** 120 V, **RMSE-2C** 230 V, **RMSE-9C** 100 V
Ref. **RMVE-1C** 120 V, **RMVE-2C** 230 V, **RMVE-9C** 100 V

Composition

- DDE & JT Control Unit
- AD-SD & DR-SD & JT-SD Stand
- T245-C Soft Thermal Insulator Handle
- DR560 Desoldering Iron
- JT-TA Heater
- CL9885 Tip Cleaner
- Extractor Desk
- MSE Electric Desoldering Module (only with RMSE stations)
- MVE Pneumatic Desoldering Module (only with RMVE stations)

Specifications

Dimensions	See individual modules	**Output peak power**	150 W per tool (DDE) / 1000 W (JT)
Weight	14,9 Kg (32.8 lb)	**Tip to ground voltage**	< 2 mV RMS
Idle temp. stability (still air)	±1.5 ºC / ±3 ºF (DDE) ±20 ºC / ±36 ºF (JT)	**Temperature range**	90 - 450 ºC / 190 - 840 ºF (DDE) T. amb - 450º C / T. amb - 850 ºF (JT)
Ambient operating temp.	10 - 40 ºC / 50 - 104 ºF	**Tip to ground resistance**	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	**Robot connector**	RJ12 (RS-232 Protocol)
Voltage	**DDE-1B** 120V 50/60Hz. Output: 23,5V **DDE-2B** 230V 50/60Hz. Output: 23,5V **DDE-9B** 100V 50/60Hz. Output: 23,5V	**Fuse**	Overload protection **DDE-1B** Input fuse: 4A, **JT-1C** 8A. **DDE-2B** Input fuse: 2A, **JT-2C** 4A. **DDE-9B** Input fuse: 5A, **JT-9C** 8A.
Vacuum (MSE)	75% / 570 mmHg / 22.4 inHg	**Flow rate**	9 SLMP (MSE), 15 SLMP (MVE)
Vacuum at 6 bar (MVE)	90% / 680 mmHg / 26.8 inHg	**Air pressure range supply MVE**	4-6 bar

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Excellence range

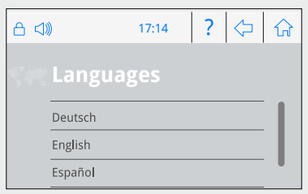
For any kind of rework job even using Hot Air with all the necessary complements

Adjustable TFT Touch screen

3.5” color display facilitates the user interaction and has an adjustable screen for easy reading

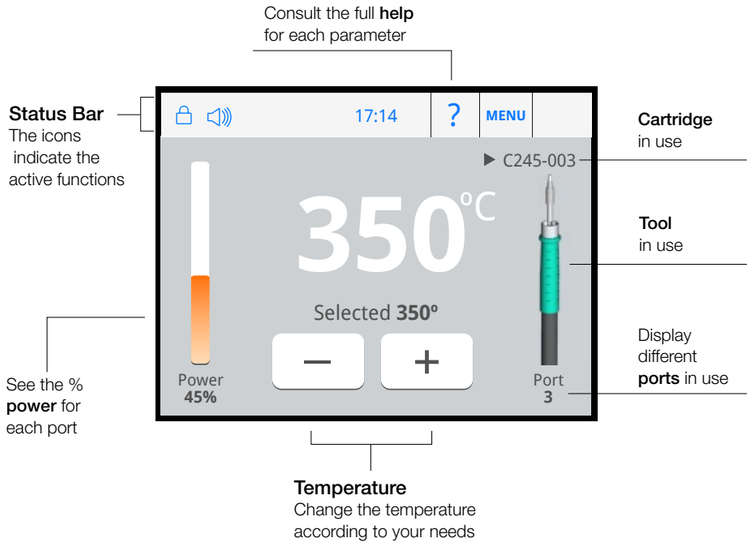
Multi language

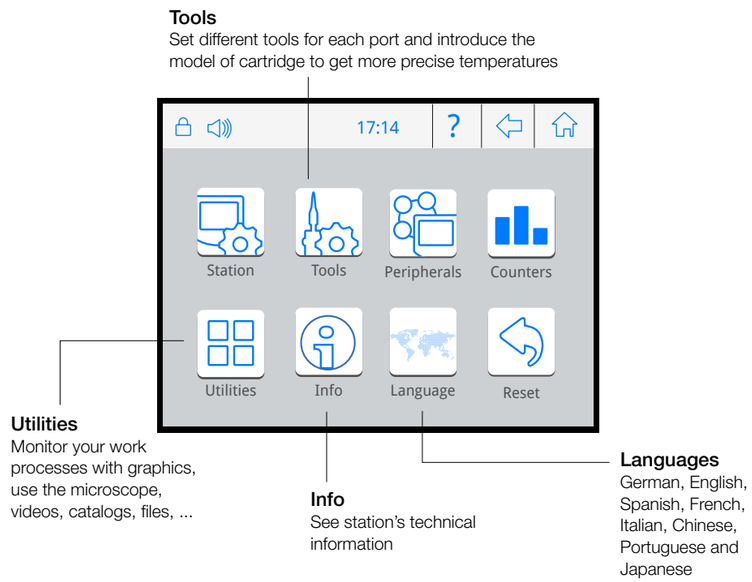
Adapt the station to the user with 8 languages to choose from



Excellence Touch range

Discover additional features and applications that the “Touch” line offers





The station provides more precise on temperature readings according to the features of each cartridge

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

Manage and monitor parameters of your JBC stations from your PC by means of a HUB with different LAN connections.

You can use our JBC Manager software, available on **www.jbctools.com**

LAN connector

Also features a USB-B connector for smaller distances

You can display the status of all connected tools simultaneously

4 ports display, even those with no tool connected

www.jbctools.com

Cartridge Adjustment

The higher the temperature accuracy, the greater the soldering quality

LAN connection

Manage stations from a greater distance

Simultaneous control of ports

All tool status displayed on one screen

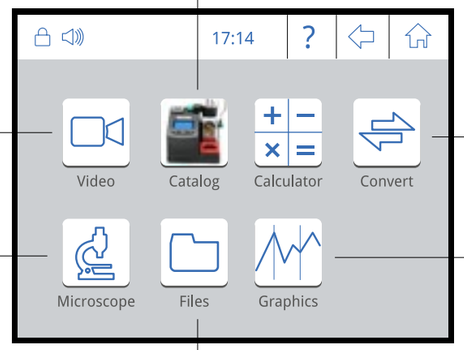
Utilities

Multiple additional applications complement and support your work

Catalog
See the JBC catalog in your work bench

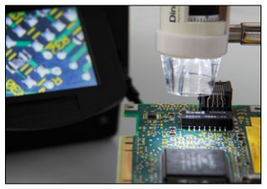
Video
The TFT screen provides you with the option to see videos or tutorials when working

Converter
This is a unit converter: volume, areas, mass, temperature, distance and power



Graphics
Monitor your soldering process with power and temperature data in real time

Microscope
Connect a Dino microscope via USB and see the soldering joints on the screen as you work



Files
Manage files: copy, delete, edit, export, import,...

Your own soldering net

PSE stations allow you to create a personalized network according to your working lines

Single management

Centralize control of 3 PSE in a single DME station

Available soon

Increase x4 your DME possibilities

Work with up to 16 tools simultaneously

4 Tools Control Unit
Ref. DME

Power Supply 4 Tools Control Unit
Ref. PSE

4 tools

4 tools

4 tools

DME · 4 Tools Control Unit

Ref. DME-1A 120 V, DME-2A 230 V, DME-9A 100 V

Specifications

Dimensions	173 x 282 x 141 mm	**Output peak power**	160W per tool
Weight	4,3 Kg (9,3 lb)	**Temperature range**	90 - 450 ºC / 190 - 840 ºF
Idle temp. stability (still air)	±1.5 ºC / ±3 ºF	**Tip to ground voltage**	< 2 mV RMS
Ambient operating temp.	10 - 40 ºC / 50 - 104 ºF	**Tip to ground resistance**	< 2 ohms
Communication connectors	USB-A / USB-B / LAN / Peripherals	**Robot connector**	RJ12 (RS-232 Protocol)
Voltage	**DME-1A** 120V 50/60Hz. Output: 23,5V **DME-2A** 230V 50/60Hz. Output: 23,5V **DME-9A** 100V 50/60Hz. Output: 23,5V	**Fuse**	Overload protection **DME-1A** 120V 50/60Hz. Input fuse: 6A **DME-2A** 230V 50/60Hz. Input fuse: 3.15A **DME-9A** 100V 50/60Hz. Input fuse: 8A

Available soon

PSE · Power Supply 4 Tools Control Unit

Ref. PSE-1A 120 V, PSE-2A 230 V, PSE-9A 100 V

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Excellence Touch range

Work with 4 tools simultaneously

The station allows a simultaneous connection of 4 tools for **soldering** or **desoldering**.

For a basic working system you need 1 tool, 1 stand and 1 cartridge. In addition, each tool can be joined with **1 pedal** and **1 module** such as the MSE / MVE Desoldering Modules, the KNE Nitrogen Flow Regulator or the FSE Fume Extractor.

It works with DME stations

The station, which is connected and controlled by a DME station, allows simultaneous connection of 4 tools for **soldering** or **desoldering**.

For a basic working system you need 1 tool, 1 stand and 1 cartridge.

In addition, each tool can be joined with **1 pedal** and **1 module** such as the MSE / MVE Desoldering Modules, the KNE Nitrogen Flow Regulator or the FSE Fume Extractor.

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Turn your equipment into a complete solution

Infrared is the most **advanced**, **efficient** and **cost-effective** technology to preheat PCBs.

Reduces risk of thermal stress

PHSK · IR Preheater Set

Ref. PHSK-1B 120 V, PHSK-2B 230 V, PHSK-9B 100 V

Composition

- PH Heater Unit
- PH Console for process control
- PH321 PCB Support
- PH218 Thermocouple Type K
- PH217 Kapton tape

Versatile and adjustable support to suit any size and shape of PCB

Automatic Tip cleaners improve thermal transfer in only **1 second**

Save space and **avoid solder splashing**

Junior Tip Cleaner

Ref. CLMS-A

Two modes of operation

The motorized brushes start by pressing the button or by selecting the continuous mode

Senior Tip Cleaner

Ref. CLMB-A

Vertical access

This alternative position facilitates working with robots.

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