

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.



ESD safe

All JBC products comply with CE standards and EDS recommendations.



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

The new generation of JBC

The Excellence range of JBC has become the trendiest choice for the electronics professional

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 **Touch**
range



Excellence
range

Excellence Touch
range

TFT Screen with
capacitive
keyboard



Ref. DDE, NASE, NANE, HDE

TFT Touch
Screen



Ref. DME

Features



Station name	✓	✓
Adjustable sound		✓
Date and time	✓	✓
Screen Calibration		✓
Screensaver		✓
Screen lock		✓
PIN activation	✓	✓



Tool preset	✓	
Cartridge adjustment		✓



Partial counters	✓	✓
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Peripherals	✓*	✓
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Communications:		
Robot	✓	✓
LAN Ethernet		✓
USB-B	✓	✓
USB-A	✓	✓



Graphics	✓	✓
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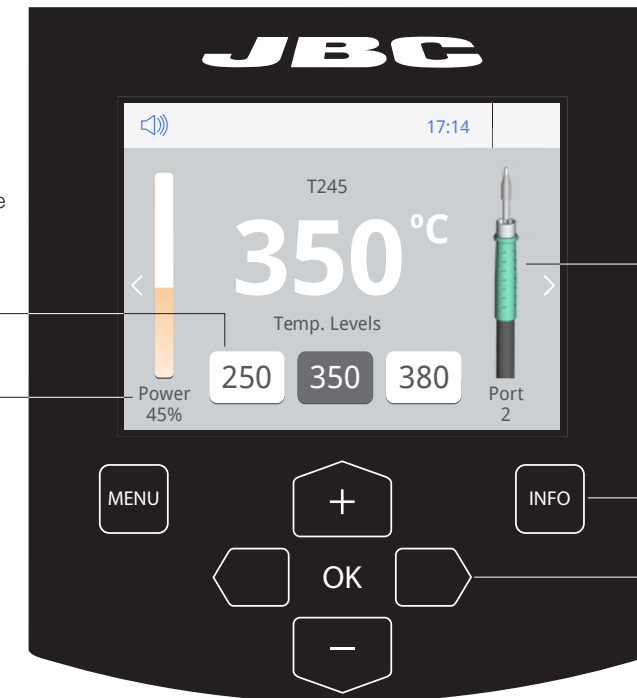


Utilities		✓
Reset by menu	✓	✓
Simultaneous control of ports		✓
Complete Help	✓	✓

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

Excellence
range

See for yourself all the benefits



Quick
temperature
change

See %
power
for each
port

Tool
in use

Consult the
comprehensive
help for each
parameter

Display
different
ports
in use

Station
Adjust station
parameters and
personalize the
new functions

Tools
Set different tools
for each port and

Counters
Register total and
partial hours for
each port: work,
sleep, hibernation
hours,...

Peripherals
Join station ports
with pedals and
modules: desoldering
pump, nitrogen flow
regulator, fume
extractor,...

Graphs
Monitor your work
processes with power
and temperature data
in real time

Reset
You can reset the
station parameters
to default values

JBC
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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

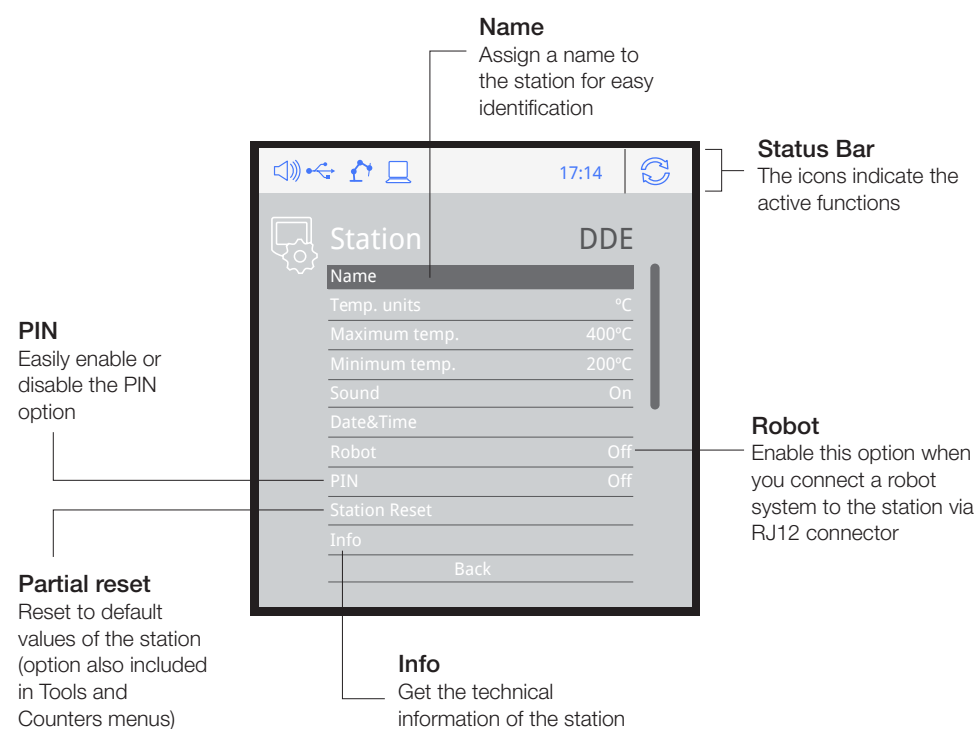
Quick access

The new interface
provides quick
access to all
parameters



Station customizable

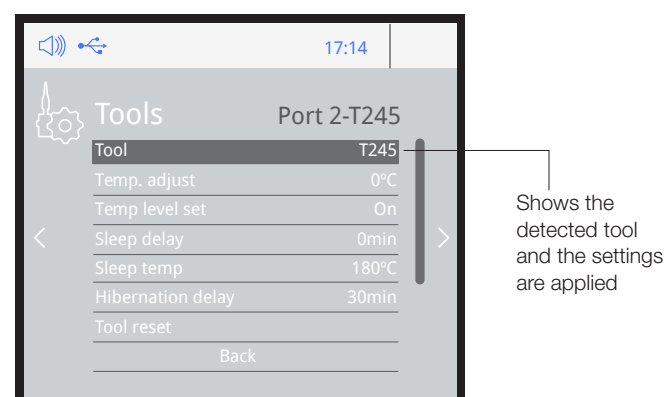
Set the station parameters and personalize the new functions



Tool Preset

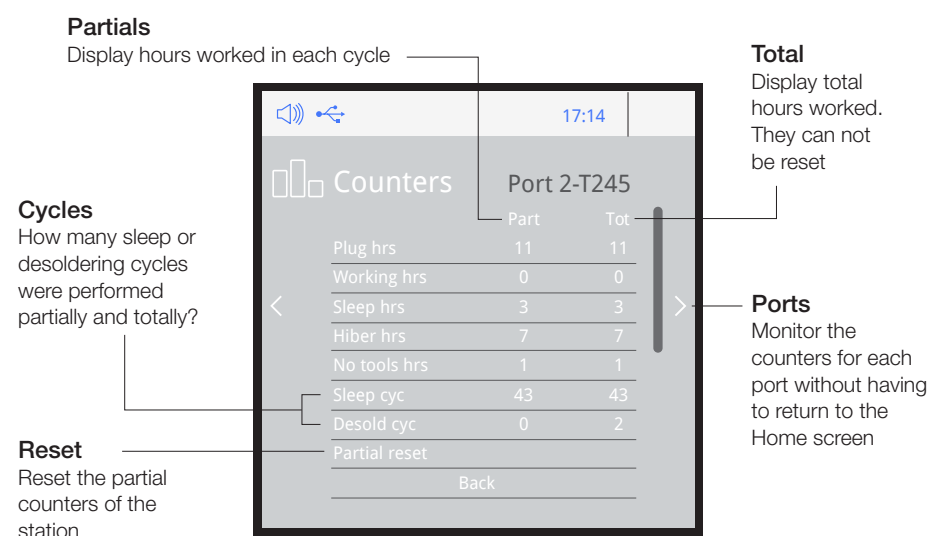
Set the tool before connecting

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



Partial Counters

Display the hours worked in each cycle



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Peripherals

Multiple possibilities for greater production

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



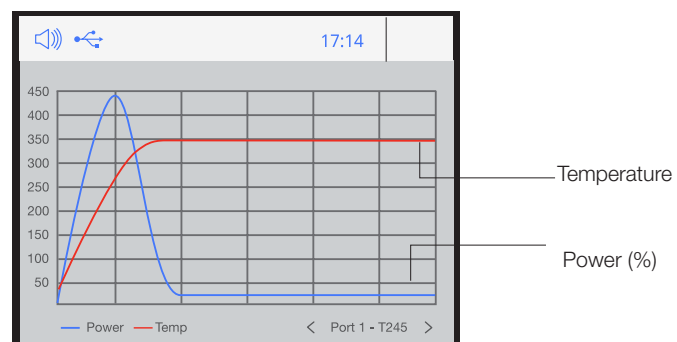
Graphics

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.



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

Connection RJ12



Robots

Automate the soldering process and control the settings from your Robot

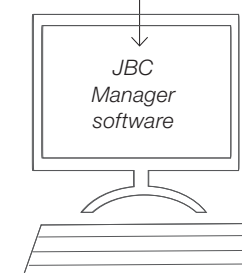
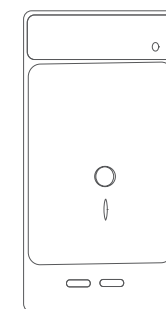
For very repetitive jobs requiring precision

Remote Work Management

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



Download the JBC Manager software and the user manual from www.jbctools.com/manager.html



Connect the stations and the PC will detect them automatically

USB Hub

LAN Hub

any JBC station



DDE



DME



NASE/NANE

JBC

www.jbctools.com



Soldering Net

Centralize the control of your work via USB



DME



DME



DME

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

New stations

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

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.

DDE · 2 Tools Control Unit

Ref. **DDE-1A** 120 V, **DDE-2A** 230 V, **DDE-9A** 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 °C / 190 - 840 °F (±5%)
Idle temp. stability (still air)	±1.5 °C / ±3 °F	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Tip to ground resistance	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	Robot connector	RJ12 (RS-232 Protocol)
Voltage	DDE-1A 120V 50/60Hz. Output: 23,5V DDE-2A 230V 50/60Hz. Output: 23,5V DDE-9A 100V 50/60Hz. Output: 23,5V	Fuse	Overload protection DDE-1A 120V 50/60Hz. Input fuse: 4A DDE-2A 230V 50/60Hz. Input fuse: 2A DDE-9A 100V 50/60Hz. Input fuse: 5A

Compatible peripherals

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

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-1A** 120 V, **HDE-2A** 230 V, **HDE-9A** 100 V

Composition

- HDE Control Unit
- HD-SD Stand
- T470-A Handpiece
- CL9885 Tip Cleaning Stand



Specifications

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

NASE / NANE · Nano stations

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

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

The NANE stations are supplied with 2 Nano Handpieces



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 °C / 190 - 840 °F
Idle temp. stability (still air)	±3 °C / ±5.5 °F	Tip to ground resistance	< 2 ohms
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Robot connector	RJ12 (RS-232 Protocol)
Communication connectors	USB-A / USB-B	Fuse	Overload protection NAE-1A 120V 50/60Hz. Input fuse: 0,5A NAE-2A 230V 50/60Hz. Input fuse: 0,2A NAE-9A 100V 50/60Hz. Input fuse: 0,5A
Voltage	NAE-1A 120V 50/60Hz. Output: 8.5V NAE-2A 230V 50/60Hz. Output: 8.5V NAE-9A 100V 50/60Hz. Output: 8.5V		

Excellence range

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

P105-A 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-1A** 120 V, **DDSE-2A** 230 V, **DDSE-9A** 100 V

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

Composition

- DDE Control Unit
- AD-SD & DR-SD Stands
- T245-A Handpiece
- DR560 Desoldering Iron
- CL9885 Tip Cleaning Stand
- 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 °C / 190 - 840 °F
Idle temp. stability (still air)	±1.5 °C / ±3 °F	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Tip to ground resistance	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	Robot connector	RJ12 (RS-232 Protocol)
Voltage	DDE-1A 120V 50/60Hz. Output: 23,5V DDE-2A 230V 50/60Hz. Output: 23,5V DDE-9A 100V 50/60Hz. Output: 23,5V	Fuse	Overload protection DDE-1A Input fuse: 4A DDE-2A Input fuse: 2A DDE-9A 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. **DDSE-1A** 120 V, **DDSE-2A** 230 V, **DDSE-9A** 100 V

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

Composition

- DDE & JT Control Unit
- AD-SD & DR-SD & JT-SB Stand
- T245-A Handpiece
- DR560 Desoldering Iron
- JT-TA Heater
- CL9885 Tip Cleaning Stand
- 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 °C / ±3 °F (DDE) ±20 °C / ±36 °F (JT)	Temperature range	90 - 450 °C / 190 - 840 °F (DDE) T. amb - 450° C / T. amb - 850 °F (JT)
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	Tip to ground resistance	< 2 ohms
Communication connectors	USB-A / USB-B / Peripherals	Robot connector	RJ12 (RS-232 Protocol)
Voltage	DDE-1A 120V 50/60Hz. Output: 23,5V DDE-2A 230V 50/60Hz. Output: 23,5V DDE-9A 100V 50/60Hz. Output: 23,5V	Fuse	Overload protection DDE-1A Input fuse: 4A, JT-1B 8A. DDE-2A Input fuse: 2A, JT-2B 4A. DDE-9A Input fuse: 5A, JT-9B 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

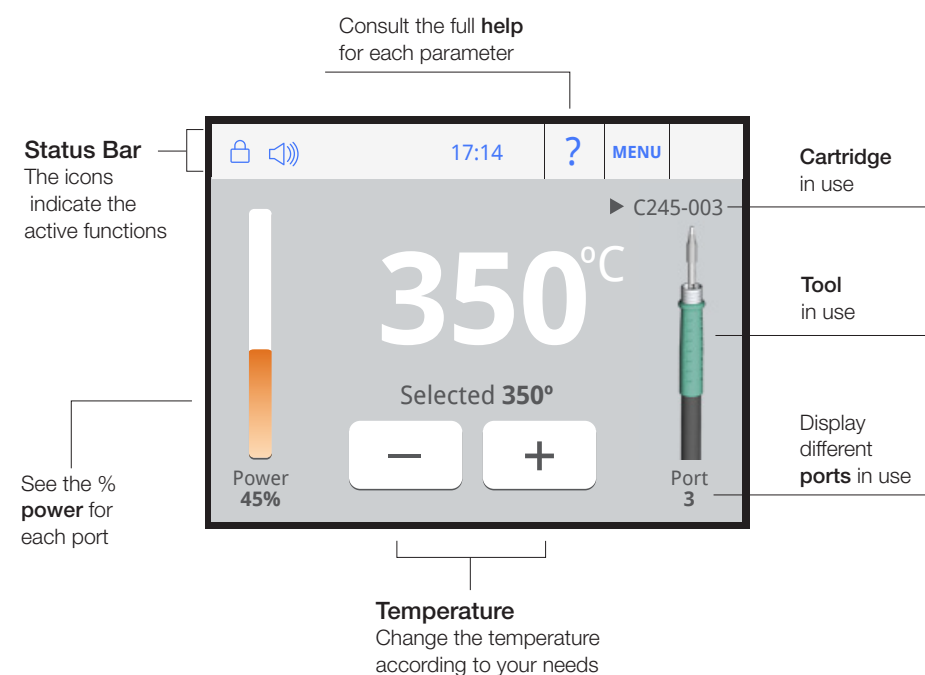
Multi language

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

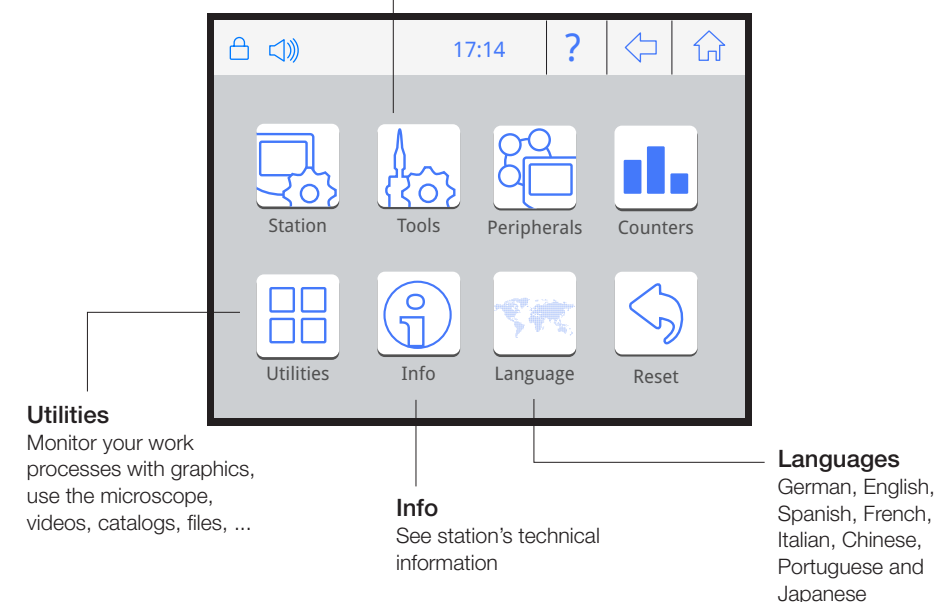


Excellence Touch range

Discover additional features and applications that the "Touch" line offers



Tools
Set different tools for each port and introduce the model of cartridge to get more precise temperatures



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.

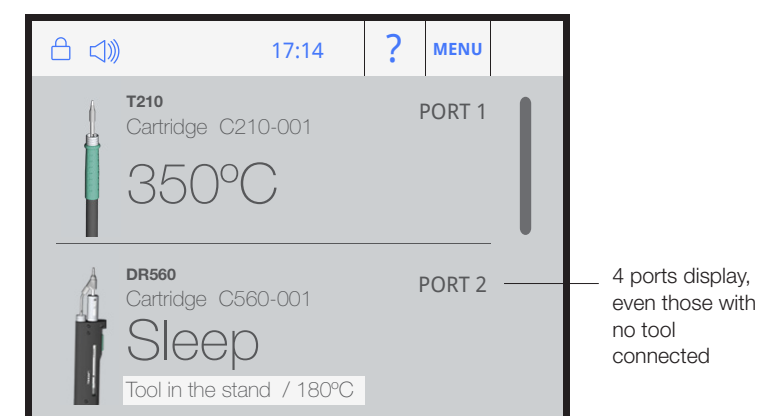
You can use our JBC Manager software, available on www.jbctools.com



LAN connector

Also features a USB-B connector for smaller distances

You can display the status of all connected tools simultaneously



Cartridge Adjustment

The higher the temperature accuracy, the greater the soldering quality



LAN connection

Manage stations from a greater distance

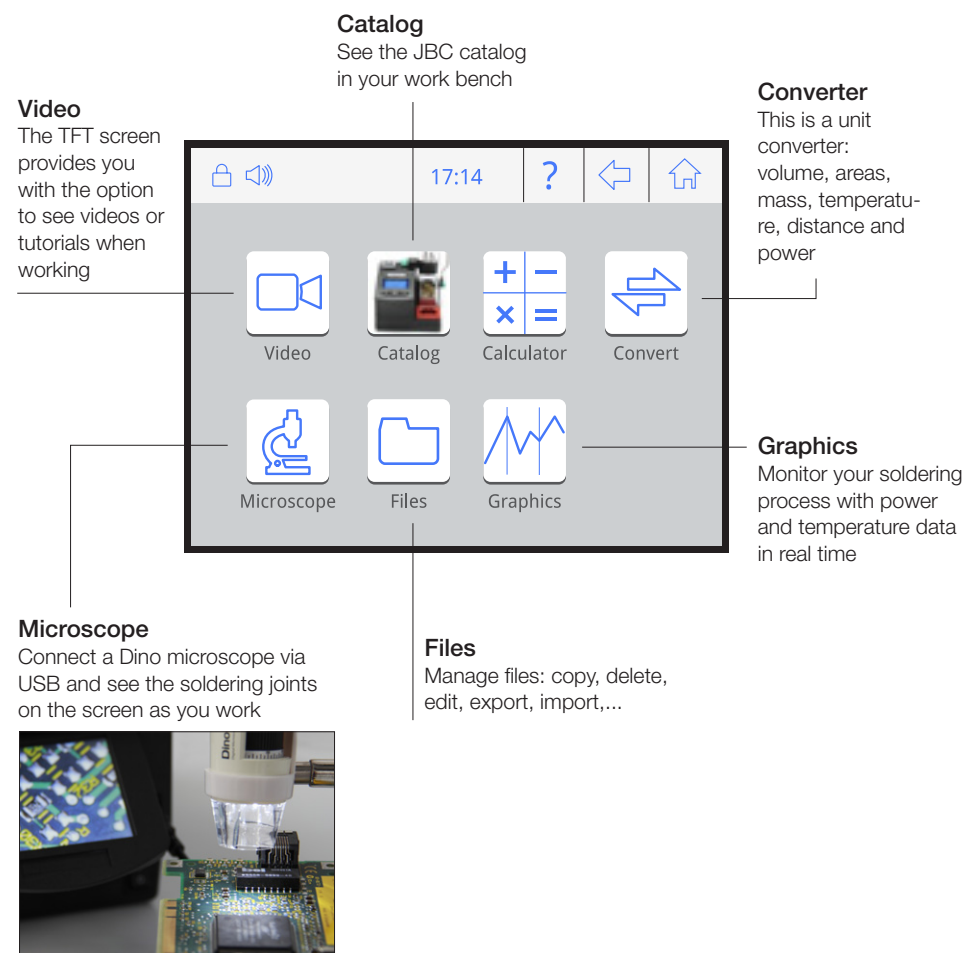
Simultaneous control of ports

All tool status displayed on one screen



Utilities

Multiple additional applications complement and support your work



JBC

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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.

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 °C / 190 - 840 °F
Idle temp. stability (still air)	±1.5 °C / ±3 °F	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 °C / 50 - 104 °F	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



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.

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



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