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

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

Excellence range
Excellence range Touch

TFT Screen with capacitive keyboard

TFT Touch Screen

Ref. DDE, NAE, HDE

Ref. DME

Feature	Excellence (Ref. DDE, NAE, HDE)	Excellence Touch (Ref. DME)
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

www.jbctools.com

See for yourself all the benefits

Quick temperature change

T470

350°C

Temp. Levels

250 380 400

Power 45%
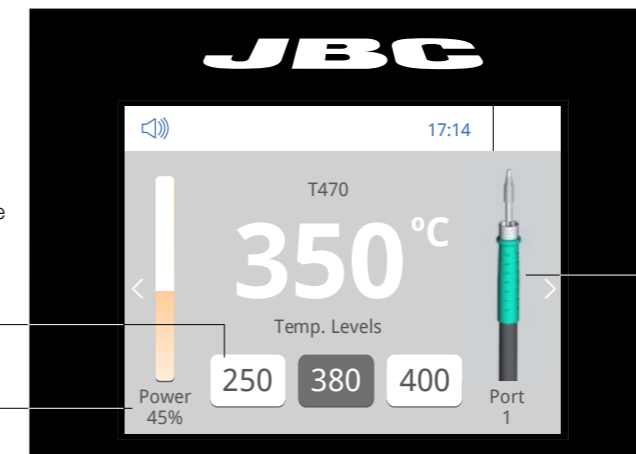
See % power for each port

Tool in use

Port 1

Consult the comprehensive help for each parameter

M MENU

+

< OK >

−

i INFO

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,...

Station Tools Counters

Peripherals Graphs Reset

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

Adjustable TFT screen

2.8" color display with capacitive keyboard facilitates user interaction

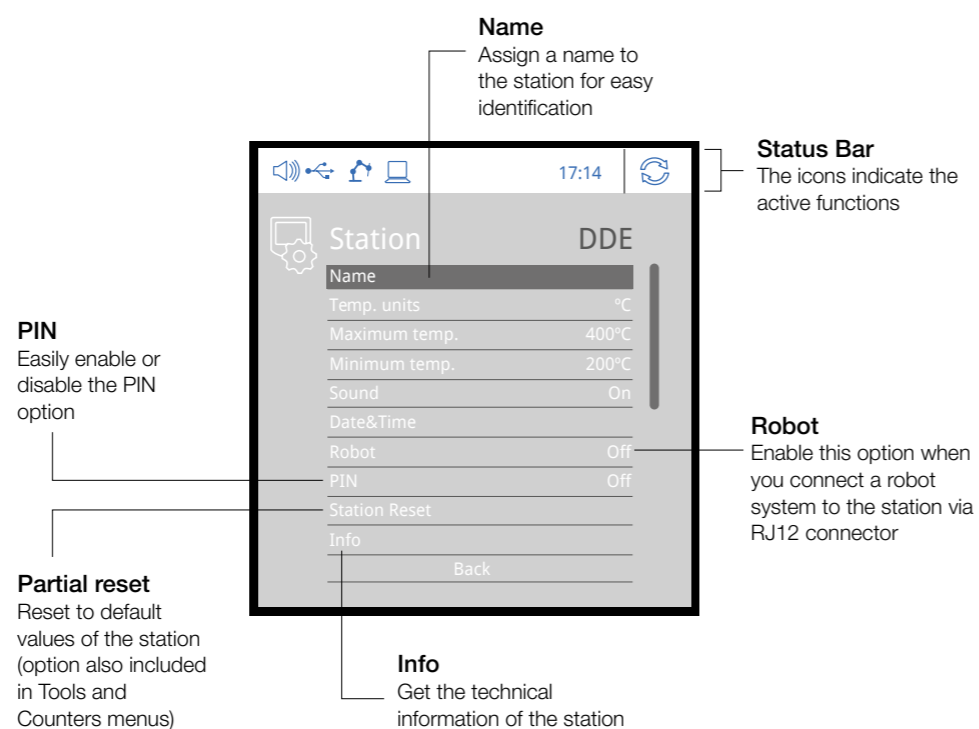## Intuitive Menu
Easy browsing for working with total comfort

Quick access
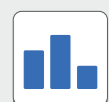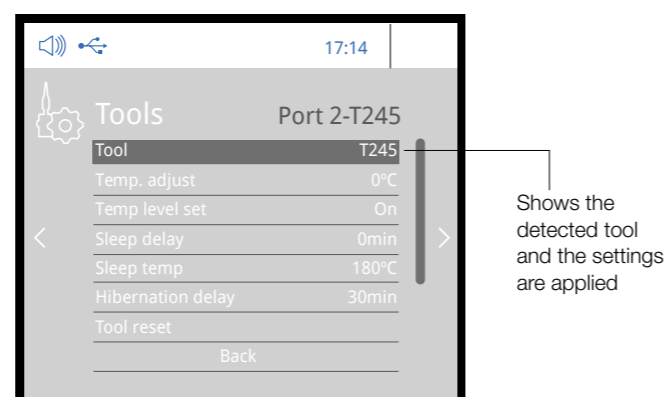The new interface provides quick access to all parameters

Station customizable

Set the station parameters and personalize the new functions

Name
Assign a name to the station for easy identification

Status Bar
The icons indicate the active functions

PIN
Easily enable or disable the PIN option

Robot
Enable this option when you connect a robot system to the station via RJ12 connector

Partial reset
Reset to default values of the station (option also included in Tools and Counters menus)

Info
Get the technical information of the station

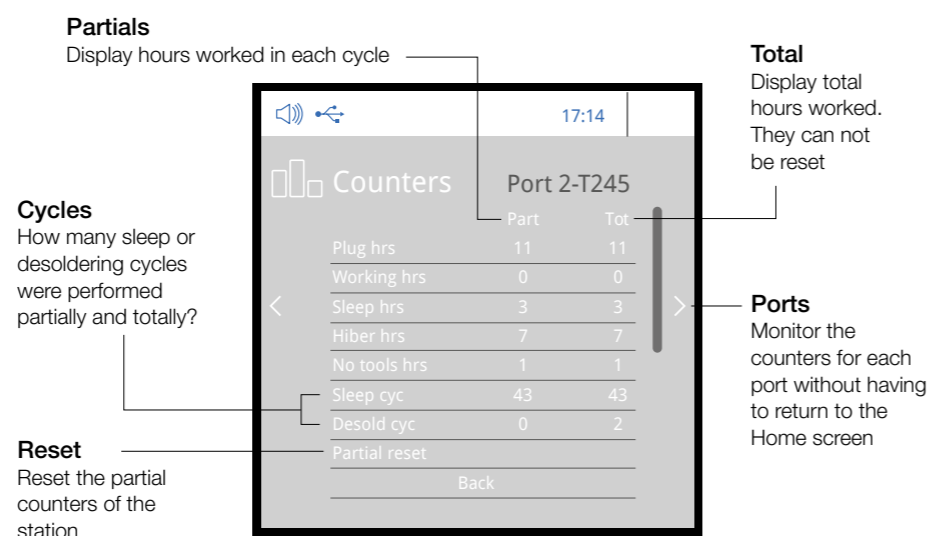| Station	DDE
Name	
Temp. units	°C
Maximum temp.	400°C
Minimum temp.	200°C
Sound	On
Date&Time	
Robot	Off
PIN	Off
Station Reset	
Info	
Back	

17:14

Tool Preset

Set the tool before connecting

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

Tools	Port 2-T245
Tool	T245
Temp. adjust	0°C
Temp level set	On
Sleep delay	0min
Sleep temp	180°C
Hibernation delay	30min
Tool reset	
Back	

17:14

Shows the detected tool and the settings are applied

Partial Counters

Display the hours worked in each cycle

Partials
Display hours worked in each cycle

Total
Display total hours worked. They can not be reset

Cycles
How many sleep or desoldering cycles were performed partially and totally?

Reset
Reset the partial counters of the station

Ports
Monitor the counters for each port without having to return to the Home screen

Counters	Port 2-T245	
	Part	Tot
Plug hrs	11	11
Working hrs	0	0
Sleep hrs	3	3
Hiber hrs	7	7
No tools hrs	1	1
Sleep cyc	43	43
Desold cyc	0	2
Partial reset		
Back		

17:14

Join station ports with 1 module and 1 pedal

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

www.jbctools.com

Peripherals

Multiple possibilities for greater production

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
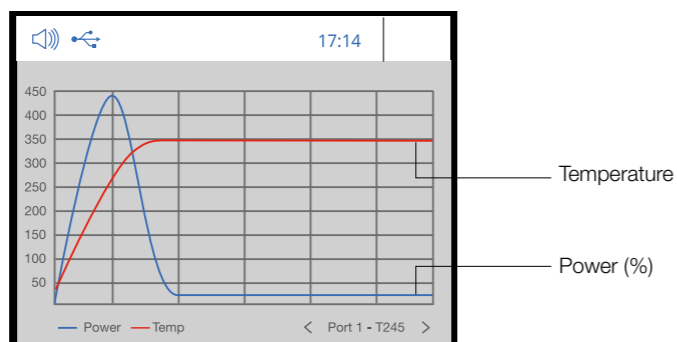
Graphics

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

17:14

450
400
350
300
250
200
150
100
50

— Power — Temp   < Port 1 - T245 >

Temperature

Power (%)

Export graphics
Insert a USB flash drive into the USB-A connector **before starting the graphics** and data will be copied in CSV format.
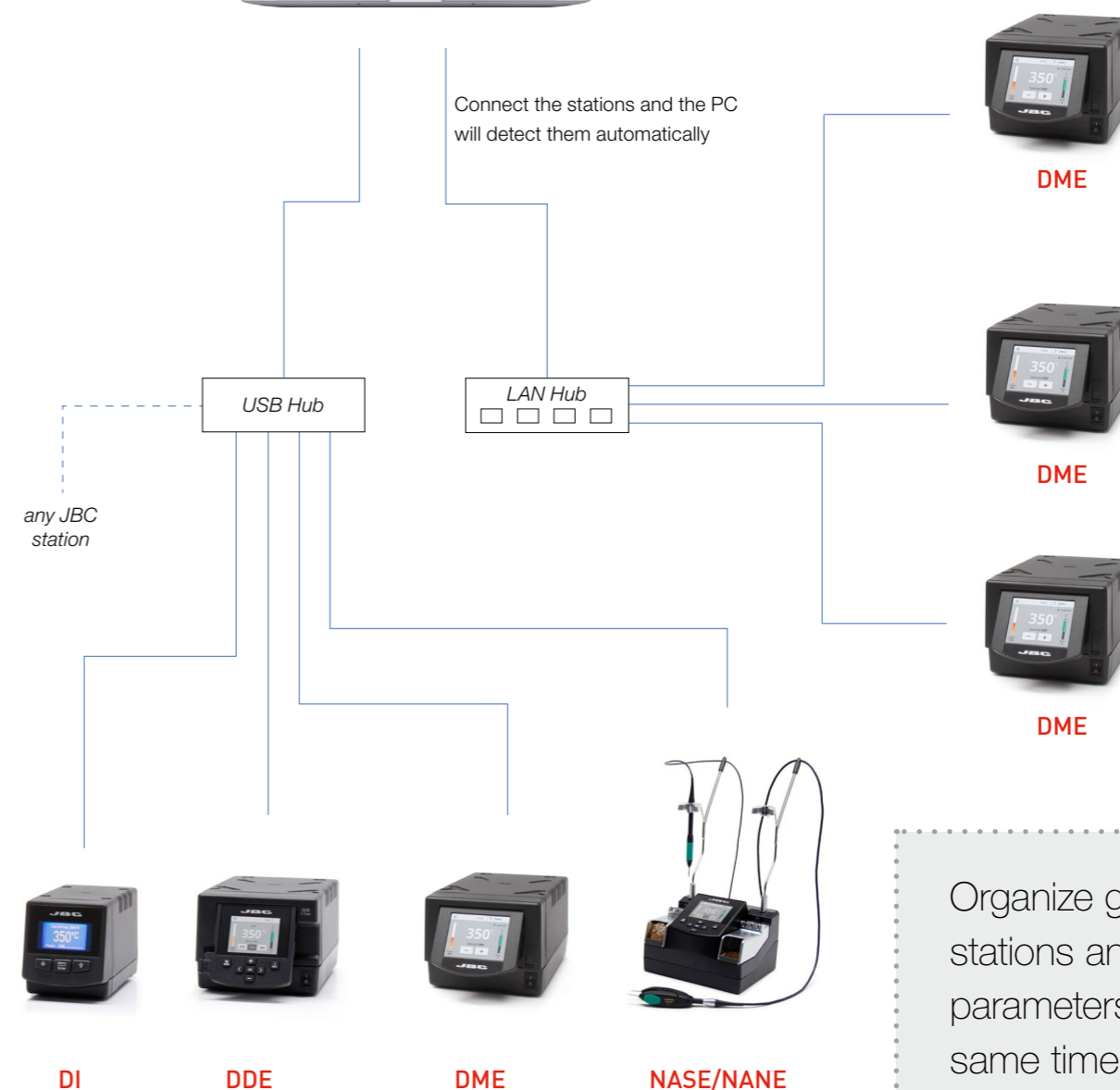
Remote Work Management
Configure and control all your company's JBC stations via PC

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

JBC Manager software
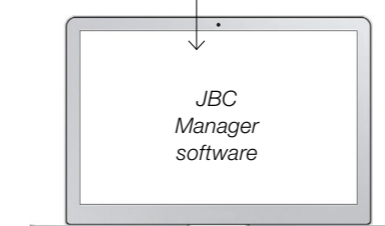
Connect the stations and the PC will detect them automatically

USB Hub

LAN Hub

any JBC station

DME

DME

DME

DME

DI   DDE   DME   NASE/NANE

JBC Net
your Soldering Net

Centralize the control of your work via USB

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**

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

Compatible peripherals

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

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-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**

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**

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 ℃ / 190 - 840 ℉ (±5%)
Idle temp. stability (still air)	±1.5 ℃ / ±3 ℉	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 ℃ / 50 - 104 ℉	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

Excellence range

HDE · Heavy Duty station

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

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

Composition
- · HDE Control Unit
- · HD-SD Stand
- · T470-A General Purpose HD Handle
- · CL6166 ESD 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 ℃ / 190 - 932 ℉
Idle temp. stability (still air)	±1.5 ℃ / ±3 ℉	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 ℃ / 50 - 104 ℉	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

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.

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 ℃ / 190 - 840 ℉
Idle temp. stability (still air)	±3 ℃ / ±5.5 ℉	Tip to ground resistance	< 2 ohms
Ambient operating temp.	10 - 40 ℃ / 50 - 104 ℉	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		

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

Excellence range

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

Composition

· DDE Control Unit
· AD-SD & DR-SD Stands
· T245-A General Purpose Handle
· DR560 Desoldering Iron
· CL6166 ESD 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 ℃ / 190 - 840 ℉
Idle temp. stability (still air)	±1.5 ℃ / ±3 ℉	Tip to ground voltage	< 2 mV RMS
Ambient operating temp.	10 - 40 ℃ / 50 - 104 ℉	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-1D** 120 V, **RMSE-2D** 230 V, **RMSE-9D** 100 V
Ref. **RMVE-1D** 120 V, **RMVE-2D** 230 V, **RMVE-9D** 100 V

Excellence range

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

Composition

· DDE & JTSE Control Unit
· AD-SD & DR-SD & JT-SD Stand
· T245-A General Purpose Handle & DR560 Desoldering Iron
· JT-TA Heater
· CL6166 ESD 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 (JTSE)
Weight	14,9 Kg (32.8 lb)	Tip to ground voltage	< 2 mV RMS
Idle temp. stability (still air)	±1.5 ℃ / ±3 ℉ (DDE) ±20 ℃ / ±36 ℉ (JTSE)	Temperature range	90 - 450 ℃ / 190 - 840 ℉ (DDE) T. amb - 450° C / T. amb - 850 ℉ (JTSE)
Ambient operating temp.	10 - 40 ℃ / 50 - 104 ℉	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, **JTSE-1A** 8A. **DDE-2B** Input fuse: 2A, **JTSE-2A** 4A. **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

Adjustable TFT Touch screen

3.5" color display facilitates the user interaction and has an adjustable screen for easy reading
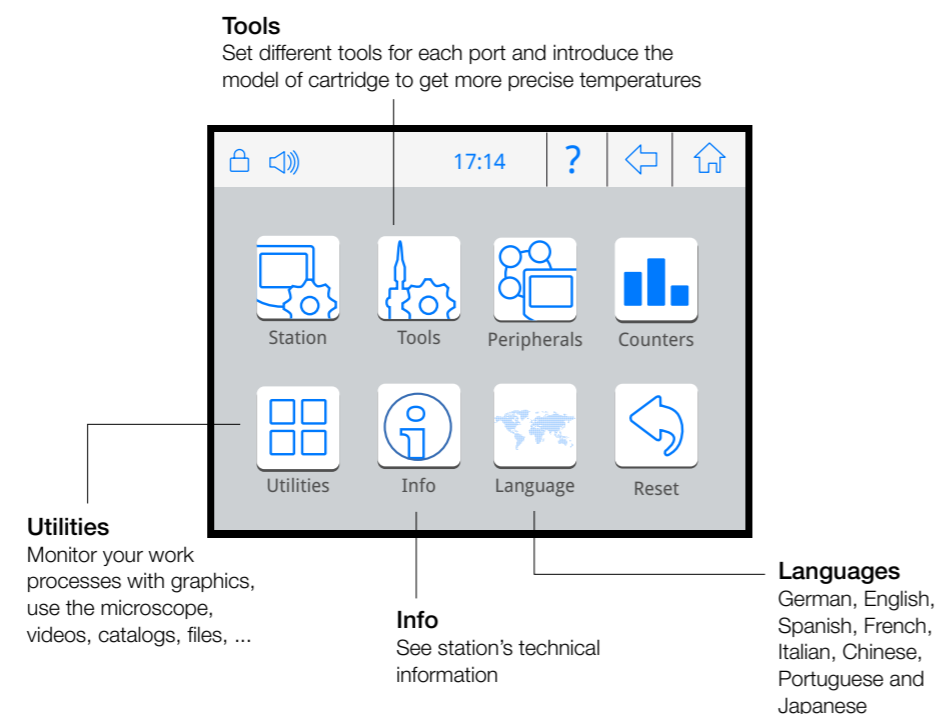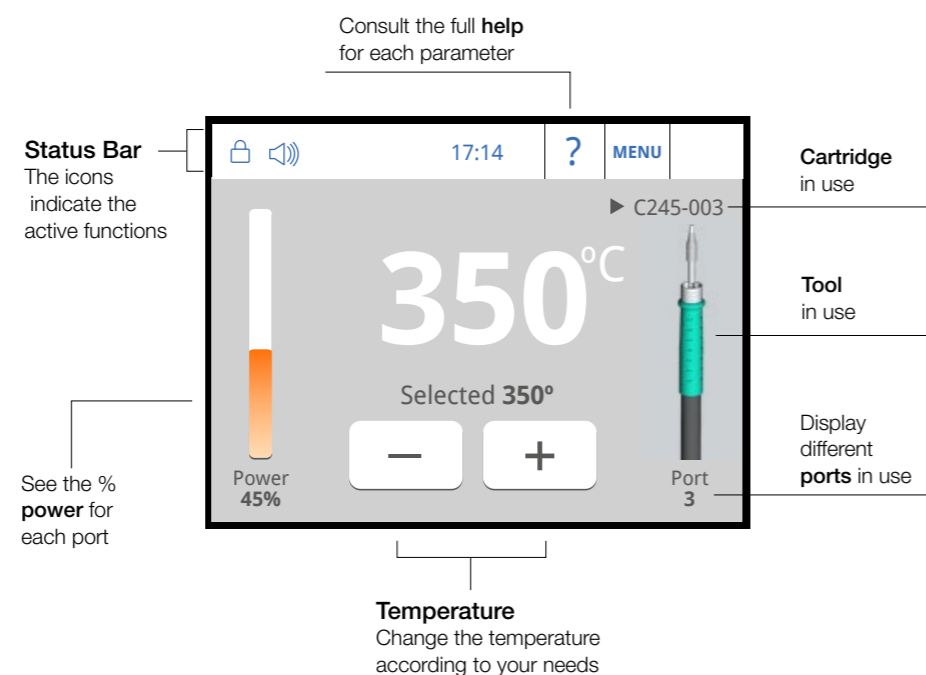
Multi language

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

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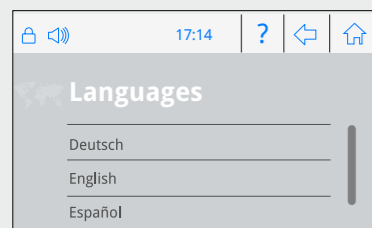
Excellence Touch
range

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

Consult the full **help** for each parameter

Status Bar
The icons indicate the active functions

350°C
Selected 350°

Power 45%
Port 3

Cartridge in use
▶ C245-003

Tool in use

Display different **ports** in use

See the % **power** for each port

Temperature
Change the temperature according to your needs

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

Station | Tools | Peripherals | Counters
Utilities | Info | Language | Reset

Utilities
Monitor your work processes with graphics, use the microscope, videos, catalogs, files, ...

Info
See station's technical information

Languages
German, English, Spanish, French, Italian, Chinese, Portuguese and Japanese

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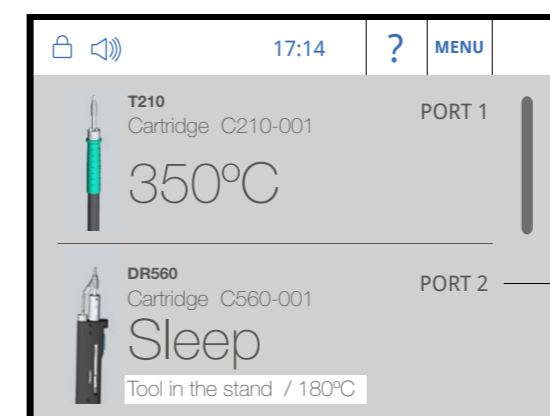
You can use our JBC Manager software, available on **www.jbctools.com**

LAN connector

Also features a USB-B connector for smaller distances

You can display the status of all connected tools simultaneously

T210
Cartridge C210-001
PORT 1
350ºC

DR560
Cartridge C560-001
PORT 2
Sleep
Tool in the stand / 180ºC

4 ports display, even those with no tool connected

Cartridge Adjustment

The higher the temperature accuracy, the greater the soldering quality

LAN connection

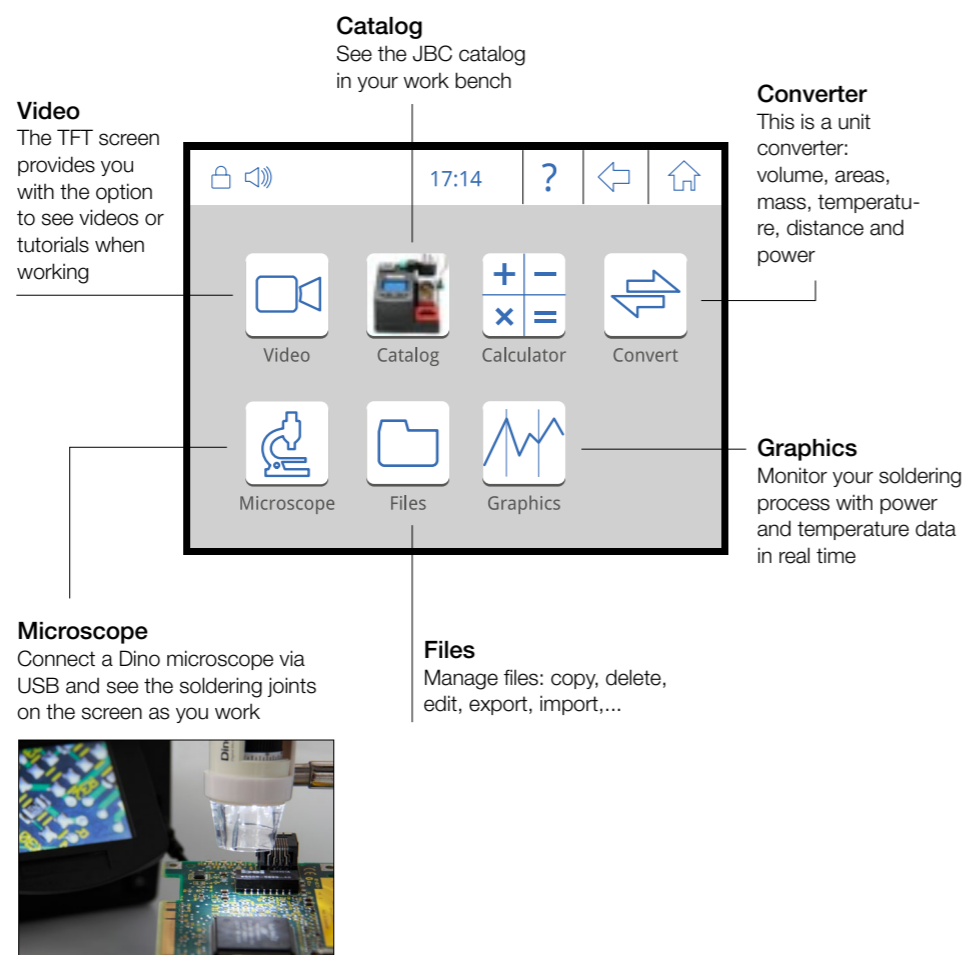Manage stations from a greater distance

Simultaneous control of ports

All tool status displayed on one screen

Utilities

Multiple additional applications complement and support your work

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

Catalog
See the JBC catalog in your work bench

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

| Video | Catalog | Calculator | Convert |
| Microscope | Files | Graphics | |

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,...

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

Your own soldering net

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

Increase x6 your DME's possibilities

Work with up to 24 tools simultaneously

4 Tools Control Unit
Ref. DME

Single management
Centralize control of 5 PSE in a single DME station

Power Supply 4 Tools Control Unit
Ref. PSE

4 tools   4 tools   4 tools   4 tools   4 tools

Excellence range **Touch**

DME · 4 Tools Control Unit

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

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.

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

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.

# Turn your equipment into a complete solution

PHSE-K · IR Preheater Set

Ref. **PHSE-1KA** 120 V, **PHSE-2KA** 230 V, **PHSE-9KA** 100 V

Composition
- PHS Heater Unit
- PHS Console for process control
- PHS-SA PCB Support
- PH218 Thermocouple Type K
- PH217 Kapton tape

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

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

Reduces risk of thermal stress
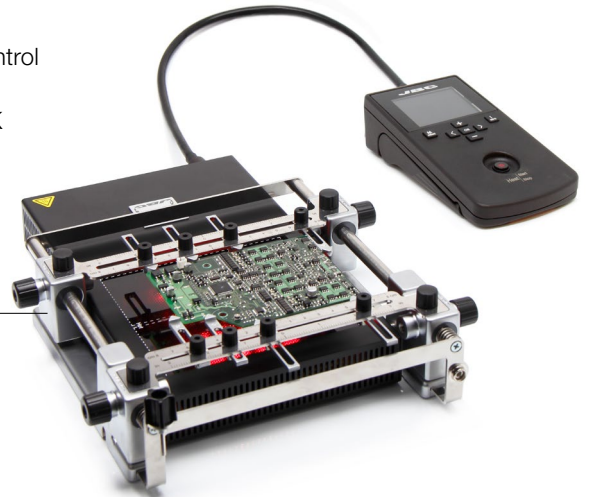
Automatic tip cleaners improve thermal transfer in only **1 second**

Junior Tip Cleaner
Ref. **CLMS-B**

Splashguard

Two modes of operation
The motorized brushes start by pressing the button or by selecting the continuous mode.

Universal Tip Cleaner
Ref. **CLMU-A**

Continuos mode

Sensor mode

Continuous or Sensor mode
This cleaner is excellent for cleaning tips with different shapes and sizes.

You can easily switch between sensor and continuous mode by pressing the top buttons.

Senior Tip Cleaner
Ref. **CLMB-A**

Sensors

Vertical access
This alternative position facilitates working with robots.

ESD safe

www.jbctools.com

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