

# JBC

[www.jbctools.com](http://www.jbctools.com)



Believe in innovation, enjoy the power  
**Station Guide**

## 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

90 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 ESD recommendations.

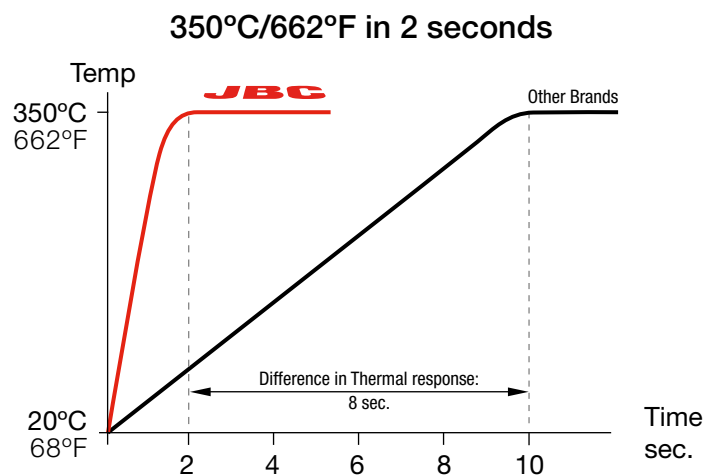


JBC Soldering SL reserves the right to update, modify or delete any information without previous notice.

# The most efficient soldering system

## The JBC Exclusive Heating System

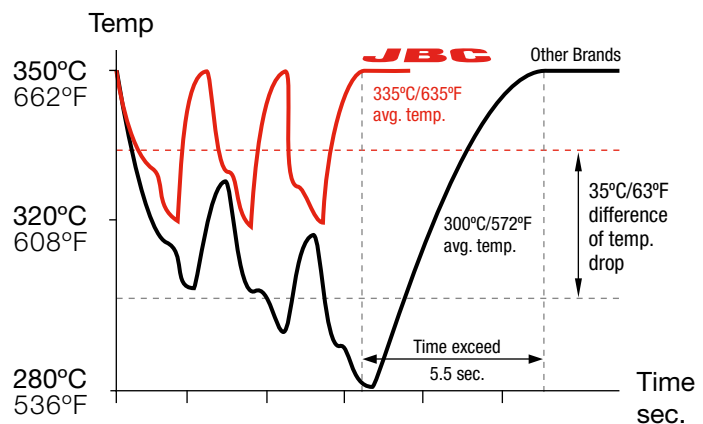
JBC's stations work with the JBC Exclusive Heating System which recovers tip temperature extremely quickly. This increases work efficiency and allows the user to work with lower temperatures.



Enhanced Temperature Efficiency → Increased Productivity + Better Quality

## Efficient Temperature Control

Comparative process of 3 solder joints



The tip temperature in JBC drops 35°C / 63°F less than other brands during 3 comparative solder joints.

— JBC  
— Another top brand

## The Intelligent Heat Management

Thanks to automatic detection of the tool in the stand, JBC Soldering and Rework Stations allow the tools to enter into **Sleep & Hibernation** mode when not being used. As a result, tip life lasts up to 5 times longer.

### Sleep Mode

**Sleep Mode** automatically lowers tip temperature below solder melting point when the tool rests in the stand.

It prevents the dissolution of the tip's iron coating into molten solder.

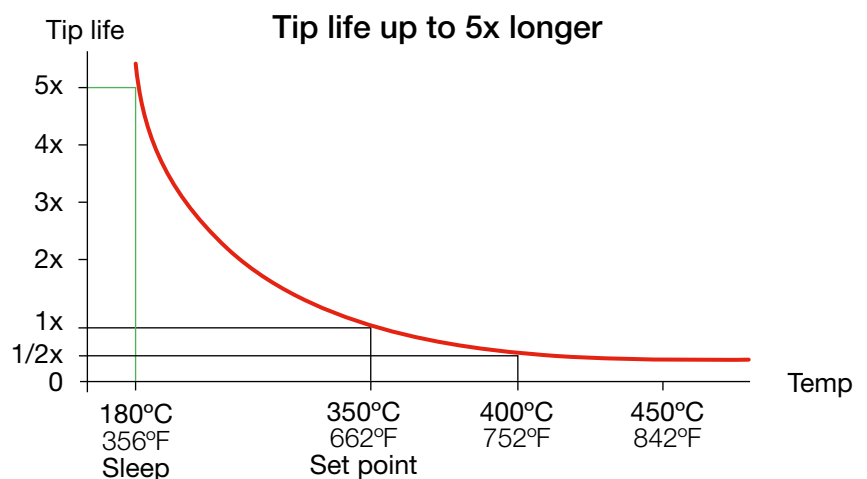
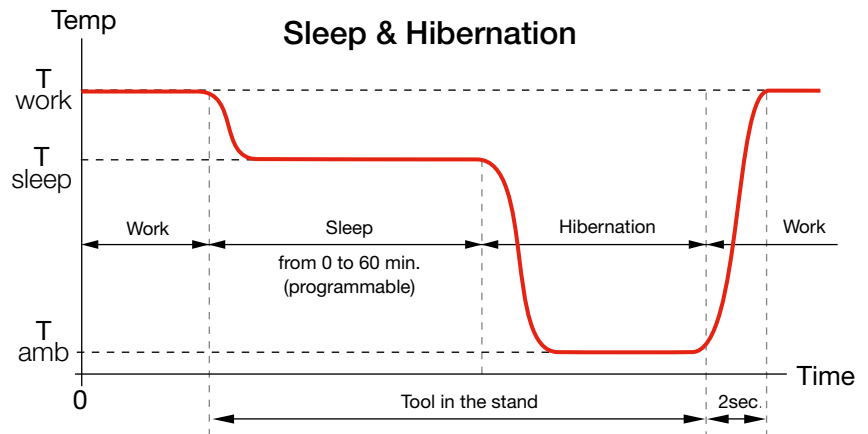
### Hibernation Mode

After a configurable period of tool inactivity in the stand (10 min factory default), the tool enters into **Hibernation mode**.

It cuts off the power supply making the tip reach room temperature thus preventing oxidation and saving energy.

### Longer Tip life

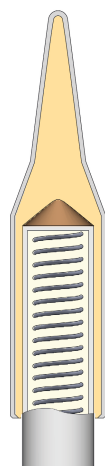
Tip life increases exponentially by using lower temperatures as shown. Using the **Sleep Mode**, the temperature is further reduced, which extends tip life by 5.



## Cartridges with extended tip life

The essential part of the soldering iron is the tip so JBC has **over 400 models of cartridges of different sizes and shapes** to choose from, depending on each application.

JBC has developed the most advanced technology based on the following principles:



- ▶ **Excellent Heat Transfer**  
The compact element reduces thermal barriers.
- ▶ **Instantaneous Heating-Up**  
A fully-integrated thermal sensor in the heater ensures quick temperature recovery.
- ▶ **Great Durability**  
The intelligent algorithm control program extends tip life.

# Compact line

Everything you need in minimum footprint

**All in One**  
Control Unit + Stand + Cleaning

Each unit meant for a  
**specific purpose**



**Quick tip changer**  
Save time and increase productivity by using the quick cartridge changer. The quick tip changer facilitates fast and safe use of different cartridge geometries.

**Suit position**  
JBC stations are designed to suit the user's work position. The tool stand and the cable collector are easily adjustable.

**Intelligent Heat Management**  
The stations incorporate the **Sleep & Hibernation** features that lower tip temperature when the tool is placed in the adjustable stand. As a result, a JBC's tip life lasts up to 5 times longer than other brands.

**Process screen**  
The **User-Friendly Menu** allows you to personalize over **20 parameters** to help manage the soldering process. Set temperature limits, check usage counters, lock the station with a PIN or program Sleep & Hibernation features.

**Communication station-PC**  
The incorporation of a **USB Connector** on all stations and control units allows you to manage your job remotely from a PC. The most innovative technology to take your work beyond the station.

**Tip Cleaning System**  
The CD stations feature a tip cleaner with a new **antisplash rubber** to prevent splashing of solder particles and maintain the work area clean. The most **complete cleaning system** allows you to choose from 3 safe methods according to your needs: metallic wool, sponge or metal brush. The integrated wiper also allows you to remove excess solder from the tip single-handedly.

## Soldering

**CD-S**  
**Precision Soldering**  
with **T210** Handle

The ideal tool when working on populated PCB or under the microscope.



**CD-B**  
**General Soldering**  
with **T245** Handle

Soldering from SMT chip components to DPAKs as well as THT components.



**CA**  
**Manual Solder Feeder**  
with **AP250** Iron

For intensive soldering of THT components or cable assemblies requiring a free hand.



## Rework

**CP**  
**Precision Desoldering**  
with **AM120** Micro Tweezers.

The fastest way to remove SMT chip components and small/medium SOP from PCB assemblies.



**CS**  
**Precision Desoldering**  
with **DS360** Tool  
**Electric** Vacuum Pump

Allows desoldering the smallest plated through holes and removing solder from surface mount pads.



**CV**  
**Precision Desoldering**  
with **DS360** Tool  
**Pneumatic** Vacuum Pump

Allows desoldering the smallest plated through holes and removing solder from surface mount pads.



# Cartridge Map

Over 400 Cartridges & Customized models

## C115

C115-126	C115-101	C115-103	C115-106	C115-107	C115-124	C115-118	C115-105	C115-110	C115-116	C115-117	C115-108	C115-125	C115-113	C115-114	C115-115 Stainless steel tip
C115-111	C115-112	C115-120	C115-109	C115-127	C115-128	High Thermal Performance			C115-213	C115-221	C115-222	C115-214	C115-223	C115-211	C115-212

## C120

Chips Components

C120-002	C120-902	C120-006	C120-004	C120-012	C120-011	Dual in Line		C120-003	C120-005	C120-007	C120-008	C120-009	C120-010
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## C420

Chips Components

Blade type

QFP & PLCC

Dual in Line

CUSTOMIZED

C420-271 A = 1,5 mm C420-272 A = 2,6 mm	C420-283 A = 50 mm	C420-280 A = 11,0 mm C420-279 A = 8,0 mm	C420-285 A = 22,0 mm C420-278 A = 20,0 mm C420-277 A = 15,0 mm C420-276 A = 10,0 mm C420-275 A = 8,0 mm C420-274 A = 6,0 mm C420-273 A = 4,0 mm	C420-286	C420-287
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## C210

C210-020	C210-009	C210-016	C210-001	C210-013	C210-003	C210-005	C210-002	C210-010	C210-014	C210-004	C210-006	C210-027	C210-031	C210-028	C210-029	C210-030
C210-019	C210-023	C210-021	C210-024	C210-022	C210-008	C210-007	C210-018	C210-012	To solder inside a connector C210-025		VIEW A 2:1 C210-015		To solder through hole components on multilayer PCBs C210-017			

## C245

C245-731	C245-773	C245-742	C245-774	C245-906	C245-406	C245-768	C245-944	C245-907	C245-407	C245-759	C245-770	C245-741	C245-729	C245-061	C245-911	C245-775	C245-756	C245-908	C245-708	C245-069	C245-966		
245-673*		C245-806*		C245-844*		C245-807*		C245-261*		C245-811*		C245-808*		C245-808*		C245-808*		C245-808*		C245-866*			
C245-030	C245-032	C245-036	C245-930	C245-001	C245-937	C245-957	C245-903	C245-403	C245-943	C245-933	C245-107	C245-747	C245-710	C245-905	C245-405	C245-945	C245-795	C245-784	C245-793	C245-912	C245-056	C245-951	C245-766
C245-201*		C245-803*		C245-845*		C245-812*		C245-256*		C245-804*		C245-804*		C245-804*		C245-804*		C245-804*		C245-804*		C245-804*	

C245-748	C245-749	C245-962	C245-963	C245-946	C245-732	C245-761	C245-034	C245-029	C245-126	C245-786	C245-929	C245-935	C245-904	C245-259	C245-260	C245-627	C245-628	Mini Spoon C245-067				C245-938 A = 3,8 mm	C245-931 A = 2,7 mm	C245-965 A = 1,9 mm
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Cartridges to solder SMT IC C245-009 C245-010	Hoof tip with reduced tinned surface, ideal for touch-up C245-064 C245-102	Chip Components C245-016	Dual in Line C245-226* A = 15,2 B = 29,0 C245-215* A = 9,6 B = 18,0 C245-304* A = 9,6 B = 15,0 C245-305* A = 9,6 B = 12,0 C245-306* A = 9,6 B = 10,0 C245-222* A = 7,1 B = 13,0 C245-303* A = 6,5 B = 06,0 C245-221* A = 5,4 B = 10,0 C245-250* A = 5,4 B = 08,0 C245-220* A = 5,4 B = 06,0	QFP y PLCC C245-227* A = 17,5 B = 17,5 C245-315* A = 15,0 B = 15,0 C245-228* A = 12,4 B = 15,0 C245-224* A = 12,0 B = 12,0 C245-223* A = 08,5 B = 08,5	For PLCC Sockets C245-247* N. of contact positions = 44 A = 17,0 B = 17,0 C245-248* N. of contact positions = 32 A = 11,9 B = 14,5	Blade type C245-792 A = 40 C245-776 A = 37 C245-949 A = 32 C245-913 A = 21 C245-752 A = 15 C245-914 A = 10	Bevel Edge Tips C245-939 C245-765 C245-955
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**C000-000 High Thermal Efficiency Cartridges:** These are characterised by their optimised tip geometries which achieve improved thermal efficiencies of up to 40%.  
C000-000\* These cartridges are 20mm longer than normal cartridges for easier access to difficult-to-reach joints

See the **full range** on our website



**C245  
SPECIAL**

Cartridges with chrome finish, designed for use in plastics

C245-053 C245-052 C245-054 C245-138 C245-312\* C245-313\* C245-124 C245-123 C245-121 C245-109 C245-311\*

Cartridges with big contact surface to solder wide area

C245-301\*

Cable soldering

C245-118

PTFE coated tip

C245-119

Through hole soldering

C245-117

Tip with an extra tinned surface

C245-041

Rework blade

C245-730

Pure nickel tip for HMP (High Melting Point) soldering

C245-772

Ideal to reach joints

C245-764

Fast soldering on contacts in male connectors

C245-268\* C245-136

To solder inside a connector

C245-116

C245-763 C245-760 C245-785 C245-762

C245-150

C245-150 C245-157 C245-158 C245-122

Through hole drag soldering

C245-754 C245-654\* C245-751 C245-651\* C245-667\*

C245-771

**C250**

C250-420 C250-401 C250-402 C250-403 C250-421 C250-409 C250-410 C250-404 C250-405 C250-406 C250-412 C250-418 C250-407 C250-408 C250-411 C250-413 C250-414 C250-415

**C470**

C470-013 C470-036 C470-014 C470-040 C470-035 C470-017 C470-009 C470-002 C470-015 C470-004 C470-016 C470-058 C470-039 C470-006 C470-007 C470-034 C470-018 C470-019 C470-003 C470-056 C470-001

**C470  
SPECIAL**

C470-008 C470-023 A = 32.2 mm C470-059 A = 20.0 mm C470-064 A = 10.0 mm C470-061 C470-051 C470-012 C470-038 C470-020 C470-021 C470-022 C470-027 C470-044 C470-057 C470-005

Cartridges with chrome finish, designed for use in plastic

C470-025 C470-026 C470-032 C470-028 C470-031 C470-048 C470-049 C470-055 C470-033 C470-030 C470-037 C470-041

C470-047 C470-010 C470-052 C470-029 C470-042 C470-046 C470-050 C470-043 C470-045 C470-SP01

**C360**

Pad Cleaners Tips

C360-001 C360-002 C360-003 C360-004 C360-007 C360-006 C360-011 C360-012 C360-013 C360-014

$\text{OA} = 1 \text{ mm}$   
 $\text{OB} = 0.6 \text{ mm}$   
 $\text{Omax. pin} = 0.4 \text{ mm}$

$\text{OA} = 1.2 \text{ mm}$   
 $\text{OB} = 0.8 \text{ mm}$   
 $\text{Omax. pin} = 0.6 \text{ mm}$

$\text{OA} = 1.4 \text{ mm}$   
 $\text{OB} = 1 \text{ mm}$   
 $\text{Omax. pin} = 0.8 \text{ mm}$

$\text{OA} = 1.6 \text{ mm}$   
 $\text{OB} = 1.2 \text{ mm}$   
 $\text{Omax. pin} = 1 \text{ mm}$

$\text{OA} = 1.9 \text{ mm}$   
 $\text{OB} = 1.4 \text{ mm}$   
 $\text{Omax. pin} = 1.2 \text{ mm}$

$\text{OA} = 3 \text{ mm}$   
 $\text{OB} = 1.5 \text{ mm}$   
 $\text{Omax. pin} = 1.3 \text{ mm}$

$\text{OA} = 1 \text{ mm}$   
 $\text{OB} = 0.6 \text{ mm}$

$\text{OA} = 1.2 \text{ mm}$   
 $\text{OB} = 0.8 \text{ mm}$

$\text{OA} = 1.4 \text{ mm}$   
 $\text{OB} = 1 \text{ mm}$

$\text{OA} = 1.6 \text{ mm}$   
 $\text{OB} = 1.2 \text{ mm}$

**C560**

Pad Cleaners Tips

C560-001 C560-002 C560-014 C560-003 C560-017 C560-004 C560-009 C560-005 C560-006 C560-007 C560-015 C560-011 C560-011HT Standard Life C560-012HT Standard Life C560-013 Extended Life

$\text{OA} = 1.4 \text{ mm}$   $\text{OB} = 0.6 \text{ mm}$   $\text{Omax. pin} = 0.4 \text{ mm}$

$\text{OA} = 1.8 \text{ mm}$   $\text{OB} = 0.8 \text{ mm}$   $\text{Omax. pin} = 0.6 \text{ mm}$

$\text{OA} = 2.5 \text{ mm}$   $\text{OB} = 0.8 \text{ mm}$   $\text{Omax. pin} = 0.6 \text{ mm}$

$\text{OA} = 2.7 \text{ mm}$   $\text{OB} = 1 \text{ mm}$   $\text{Omax. pin} = 0.8 \text{ mm}$

$\text{OA} = 2 \text{ mm}$   $\text{OB} = 1.1 \text{ mm}$   $\text{Omax. pin} = 1 \text{ mm}$

$\text{OA} = 3.2 \text{ mm}$   $\text{OB} = 1.3 \text{ mm}$   $\text{Omax. pin} = 1.1 \text{ mm}$

$\text{OA} = 5 \text{ mm}$   $\text{OB} = 1.3 \text{ mm}$   $\text{Omax. pin} = 1.1 \text{ mm}$

$\text{OA} = 3.4 \text{ mm}$   $\text{OB} = 1.5 \text{ mm}$   $\text{Omax. pin} = 1.3 \text{ mm}$

$\text{OA} = 4.2 \text{ mm}$   $\text{OB} = 1.9 \text{ mm}$   $\text{Omax. pin} = 1.7 \text{ mm}$

$\text{OA} = 4.8 \text{ mm}$   $\text{OB} = 2.4 \text{ mm}$   $\text{Omax. pin} = 2.2 \text{ mm}$

$\text{OA} = 5.2 \text{ mm}$   $\text{OB} = 3 \text{ mm}$   $\text{Omax. pin} = 2.8 \text{ mm}$

$\text{OA} = 1.4 \text{ mm}$   $\text{OB} = 0.6 \text{ mm}$

$\text{OA} = 1.8 \text{ mm}$   $\text{OB} = 0.8 \text{ mm}$

$\text{OA} = 2.7 \text{ mm}$   $\text{OB} = 1 \text{ mm}$

# Modular line

Set up your personalized station according to your soldering or rework needs

Stackable modules  
save work space

Fully compatible tools  
with all control units

Easy-to-use menu helps  
work more efficiently



## Station customizable

Personalize the parameters according to your work.



## Partial Counters

Total and partial time register for each port: work, sleep & hibernation in hours.



## Peripherals

Join station ports to pedals and modules: desoldering pump, nitrogen flow regulator,...



## Tools Preset

The station detects the tool and applies the parameters chosen by the operator.



## Graphs

Real time visualization of tip temperature and power delivered to the solder joint during soldering process.



## Communication Station-PC

Update station software, manage your stations via PC or export graphics.



## Robots

Automate the soldering process and manage the station via robot.



## JBC Net Your Soldering Network

Manage your whole soldering process remotely and in real time.



TFT screen

See % power  
for each port

DDE  
2 Tools

USB-A  
Software Updating &  
export graphics

Tool in use

Consult the  
comprehensive **help**  
for each parameter

Display different **ports** in use



**Control Units**



**Peripherals**



**Stands**



**Tools**



**Cartridge range**



**Cleaning systems**



# Premium line

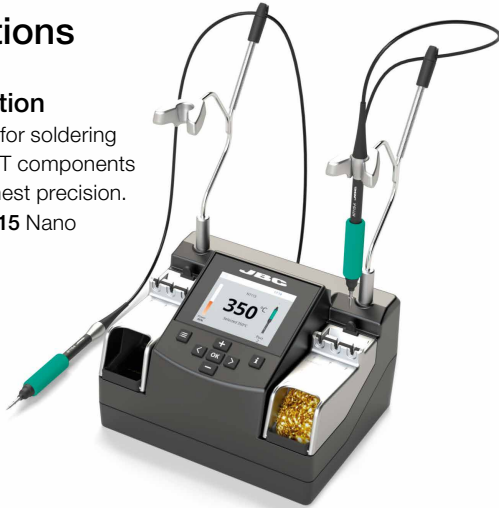
Premium Stations range include different solutions from **Nano Stations**, for soldering and rework of SMD components requiring the highest precision, to **Heavy Duty Stations** for soldering applications requiring high amount of power, as well as **Auto Feeders**, **Hot Air Stations** and **Preheaters**.

## Nano Stations

**NANE**

### Soldering station

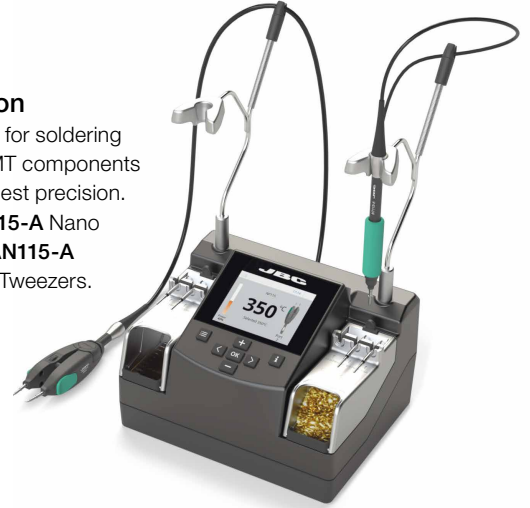
The best solution for soldering and rework of SMT components requiring the highest precision. Includes two **NT115** Nano Handles.



**NASE**

### Rework station

The best solution for soldering and rework of SMT components requiring the highest precision. Includes the **NT115-A** Nano Handle and the **AN115-A** Adjustable Nano Tweezers.



## Heavy Duty Stations

**HDE**

### Heavy Duty Station

The most powerful soldering unit of the JBC range. Includes the **T470-FA** Handle.



**HDE-K**

### HDE Tweezer Station

Designed to reduce the soldering time in applications that require a large amount of heat. Includes 2 **HDE-U** Control Units, the HD Tweezers **HT470-A** and the stand **HDT-SE**.



## Auto Feeders

**AL**

### Auto-Feed Soldering Station

The ideal solution for soldering processes requiring a free hand. The station feeds precisely the programmed amount of solder just pressing a button, making the AL station perfect for repetitive jobs. Includes **AL250-A** Tool.



**SF**

### Automatic Solder Feeder

Allows you to feed solder wire automatically from any position. 3 working modes: (Continuous, discontinuous and program mode). Includes the ergonomic **SF280-A** Solder Feed Handle and the  $\varnothing$  1 mm GSF10V Guide Set.



## Rework

Stations based on the **JBC Modular System** of two tools and four tools specifically designed for different soldering and rework processes.

### DDSE / DDVE

#### Rework station with Electric / Pneumatic pump

The DDSE / DDVE station is a complete solution to rework circuits with **T245** General Purpose Handle and **DR560** Desoldering Iron.

The DDE Control Unit manages up to **2 tools** simultaneously and is fully compatible with 10 different JBC tools.



### DDPE

#### Rework station with Electric pump

DDPE Precision Rework Station is a perfect solution for fast and precise SMD rework of chip components and small outline ICs.

This rework station comes with the **T210** Precision Purpose Handle and the **AM120** Adjustable Micro Tweezers.

The DDE Control Unit manages up to **2 tools** simultaneously and is fully compatible with 10 different JBC tools.



### DMSE / DMVE

#### Rework station with Electric / Pneumatic pump

The DMSE / DMVE station is a complete solution to rework circuits with the **T245** General Purpose Handle and the **DR560** Desoldering Iron.

The DME Control Unit manages up to **4 tools** simultaneously and is fully compatible with 10 different JBC tools.



### DMPSE / DMPVE

#### Rework station with Electric / Pneumatic pump

The DMPSE / DMPVE station is a complete solution to rework circuits with the **T245** General Purpose Handle, **DR560** Desoldering Iron, **T210** Precision Purpose Handle and **AM120** Adjustable Micro Tweezers

The DME manages up to **4 tools** simultaneously and is fully compatible with 10 different JBC tools.



# Complete Rework Stations

## RMSE / RMVE

### Rework station with Electric / Pneumatic pump

The quickest and safest solution to solder and rework all kinds of SMDs. It consists of stackable modules and all the necessary tools and accessories to make your job easier, including the **DR560** Desoldering Iron, the **T245** General Purpose Handle and the **JT-TA** Hot Air Heater.

The DDE manages up to **2 tools** simultaneously and is fully compatible with 10 different JBC tools.



# Preheaters

Complete system for preheating multilayer PCBs and ideal for repetitive soldering jobs.

The Preheater is used as a secondary heat source to reduce the amount of heat supplied by the main soldering tool, reducing thermal shock of components and PCBs.

**PHSE-K** Preheater for small/medium PCBs

**PHBE-K** Preheater for medium/large PCBs



# Hot Air Stations

## JNASE

### Hot Air Nano Station

A nano Hot Air Station capable of reworking ultra-miniature SMDs under a microscope. Includes the **NH-A** Tool.

## TESE

### Hot Air Precision Station

A precision Hot Air Station capable of reworking small and medium SMDs. Includes **TE-B** Tool.

## JTSE

### Hot Air Standard Station

A high powered hot air station capable of reworking all types of SMDs. Includes the **JT-A** Tool.



# Wire Stripper Station

## WS

### High Temperature Wire Stripper Station

The WS is specially designed for stripping high-temperature wire insulations from 36 to 18 AWG (0,127 to 1,020 mm).

This station comes with the comfortable **WS440** Tweezers and it is only compatible with **W440** blade cartridges.

