

JBC

The Soldering Co.



Stations Guide

Believe in innovation, enjoy the power

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 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.



All JBC products comply with CE standards and ESD recommendations.

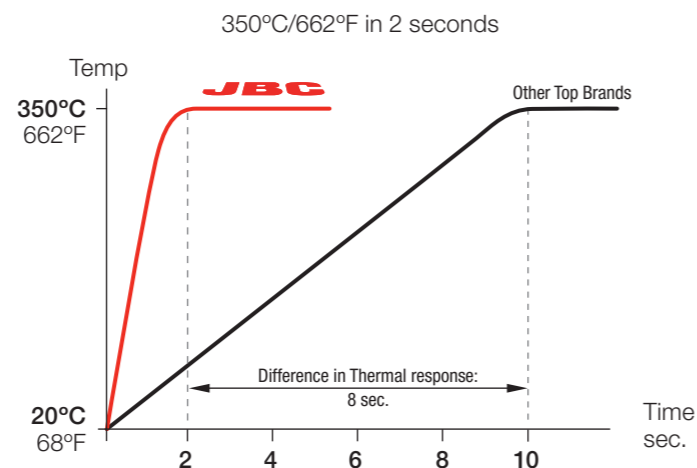


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The Most Efficient Soldering System

The JBC Exclusive Heating System

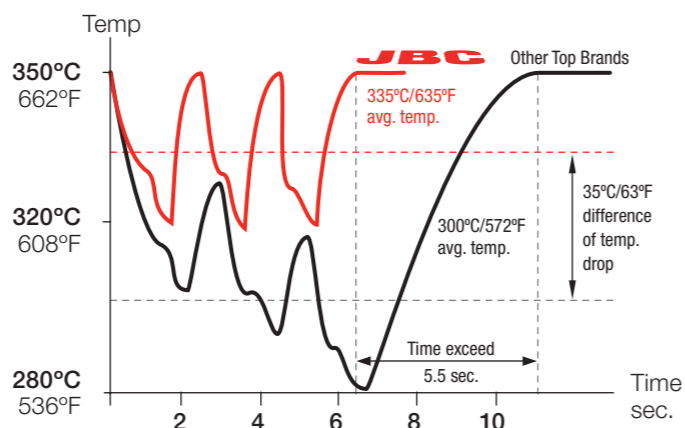
JBC's stations work with the JBC Exclusive Heating System which recovers tip temperature extremely quickly. This increases work efficiency and allows the user to work with lower temperatures.



Enhanced Temperature Efficiency → Increased Productivity + Better Quality

Efficient Temperature Control

Comparative process of 3 solder joints



Tips with JBC technology only drop 30°C (54°F) where others drop as much as 70°C (126°F)

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** Modes 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 iron coating into molten solder.

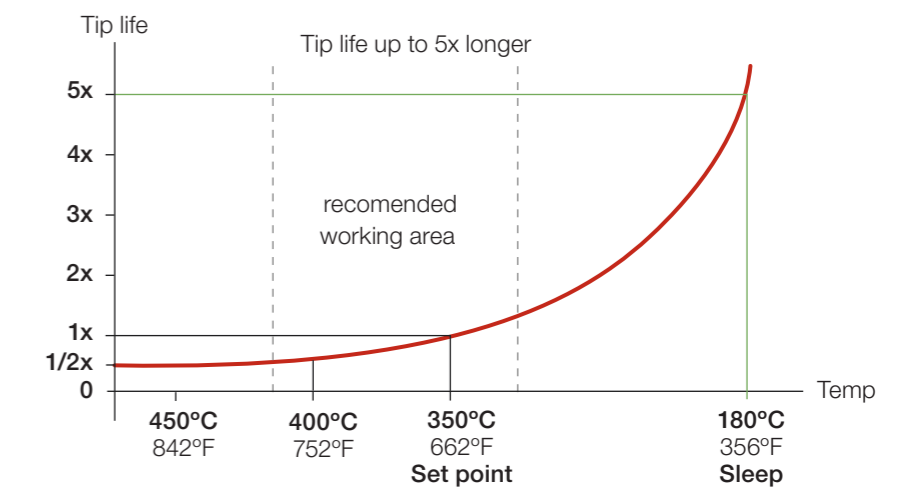
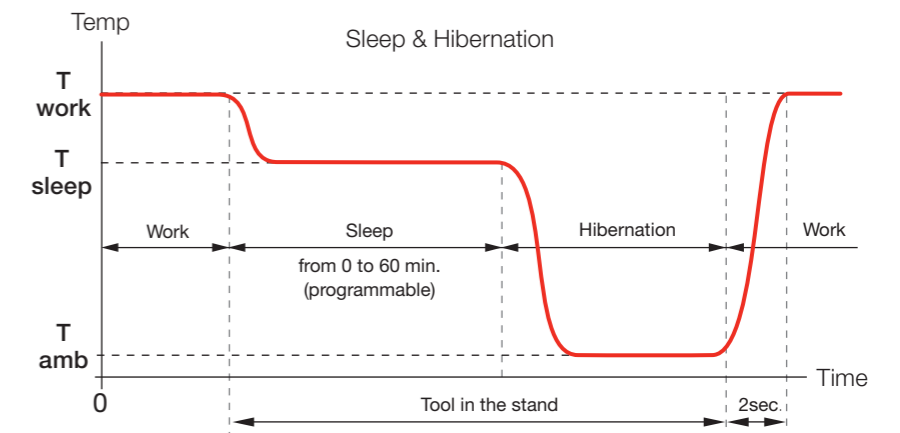
Hibernation Mode

After a configurable period of tool inactivity in the stand, 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

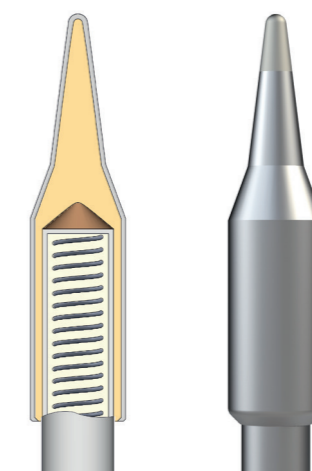
Tip life increases exponentially by using lower temperatures as shown. Using Sleep Mode, the temperature is further reduced, which extends tip life by 5.



Cartridges with extended tip life

The essential part of the soldering iron is the tip so JBC has **over 500 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 Stations

Everything you need in minimum footprint

All in One
Control Unit + Stand + Cleaning

Each unit meant for a
specific purpose

Work position
JBC stations are designed to suit the user's work position. **Tool Stand** and **Cable Collector** are easily adjustable.

Quick Cartridge Extractor and Holder
Save time and increase productivity by using **Quick Cartridge Extractor**, which facilitates fast and safe use of different cartridge geometries. **Cartridge Holder** allow to store up to four cartridges.

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

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. Now with the new accessible and replaceable Earth Fuse.

Tip Cleaning System
Compact Stations feature a tip cleaner with **antisplash rubber** to prevent splashing of solder particles and maintain the work area clean. The most **complete Cleaning System** allows you to choose from three 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.

Intuitive Menu and Interface
Fast and easy configuration of the station thanks to the 7-key keypad. **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 Modes**.

Soldering

CDS
Precision Soldering Station

This station is ideal when working on populated PCBs or under a magnifying glass. It includes **T210** Precision Handle.



CDB
Soldering Station

This station is suitable for both SMD or THT components. It includes **T245** General Purpose Handle.



CDA
Solder Feed Station

The perfect station for applications requiring a free hand to solder wire, connectors, transformers or THT components. It includes **AP250** Solder Feed Iron.



Rework

CDP
Micro Tweezers Soldering Station

The best solution for soldering and rework of SMD such as chips, small/medium SOP components and dual line components. It includes **AM120** Adjustable Micro Tweezers.



CDD
Desoldering Station

The perfect station for precision desoldering jobs of THT components and SMD pad cleaning. It includes **DS360** Micro Desoldering Iron.



Soldering Assistant

Improve your soldering quality in real time

Measure energy of each soldering joint

Analyze manual soldering processes

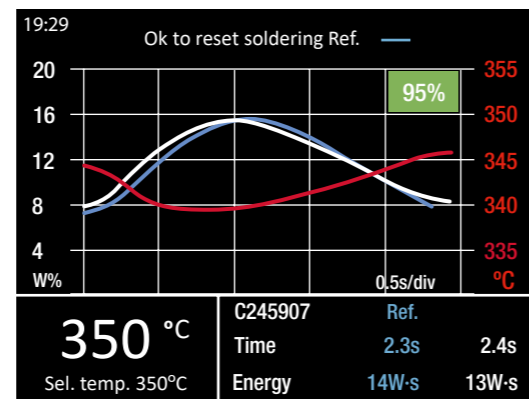
Soldering Assistant helps to improve soldering abilities

JBC innovates CDE Stations with Soldering Assistant, the first system that measures the delivered energy during the soldering process.

The system compares all new technical soldering joints to the pre-stored soldering joint. This function gives feedback to the operator, showing two different colors - red and green- along with a percentage to qualify the soldering process.

Soldering Assistant is the solution to optimize repetitive soldering processes, improving your soldering production line with greater quality and control.

Furthermore, this system makes this station perfect for operators with little experience.

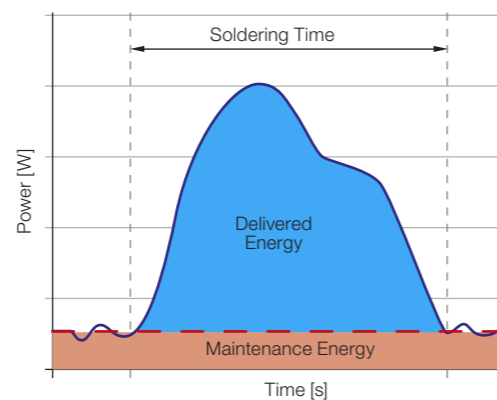
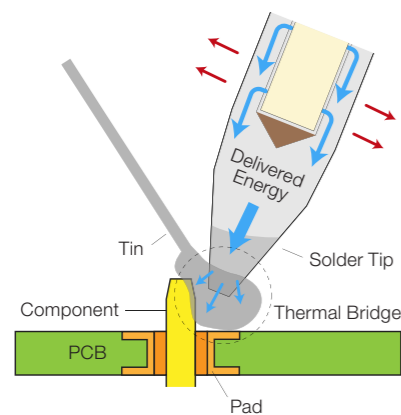


Operator feedback

Blue line: Soldering Reference White line: Current soldering Red line: Temperature

Energy of the soldering process

The measurement of the energy delivered by the soldering process and the time needed to do so, is what allows the station to indicate whether two soldering joints are equal or not.

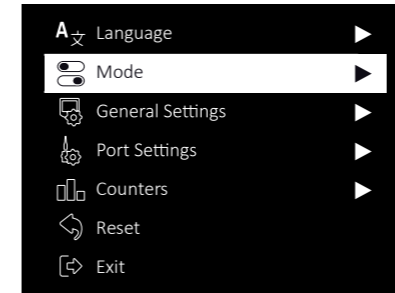


Soldering Assistant allows analyzing manual soldering processes and obtaining a qualification of these by comparing the soldering joints one by one.

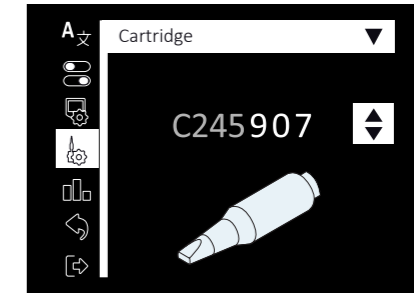
The station identifies when a soldering joint is performed, records the power delivered in each instant and measures the energy supplied.

How do we achieve a quality solder joint?

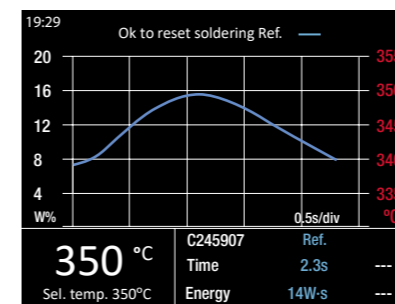
1. Configuration



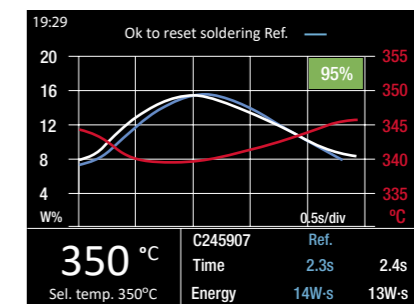
2. Choose cartridge



3. Soldering reference



4. Practice



Station Range

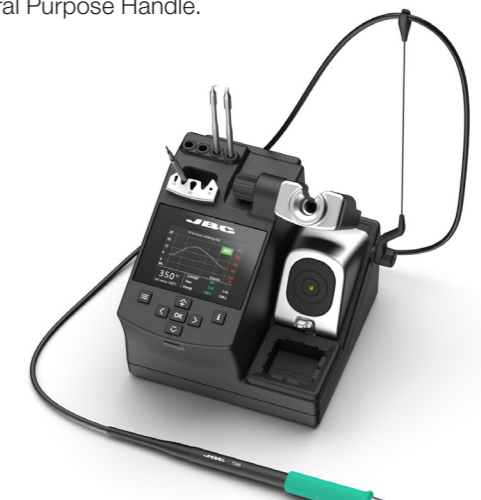
CDES
Precision Soldering-Assistant Station

The ideal tool when working on populated PCBs or under the magnifying glass. It includes T210 Precision Handle.



CDEB
Soldering-Assistant Station

Perfect for both SMD components and for jobs with high power requirements. It includes T245 General Purpose Handle.



Modular System

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



Customizable Station
Personalize the parameters according to your work.



Partial Counters
Total and partial time register for each port: work, Sleep & Hibernation Modes in hours.



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



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



Graphics
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.



Robot
Automate the soldering process and manage the station via robot.

Modular System Map



Tip Cleaning Systems



CLU
Senior Tip Cleaner

CLU Tip Cleaner cleans the tip in less than 1 second providing a thorough and gentle tip cleaning. It features two working modes: Sensor and Continuous, and it is designed to keep the work area free of Foreign Object Debris (FOD).

CLS
Junior Tip Cleaner

This automatic cleaner improves thermal transfer of the tip in less than 1 second, which means you save time and optimize production.

CLM
Manual Tip Cleaner

A complete cleaning system with splashguard and antisplash membrane to keep the work area clean and free of solder particles.



Premium Stations

Different solutions based on the JBC Modular System specifically designed for different soldering and rework processes

Nano Stations

NAN 2-Tool Nano Soldering Station

The best solution for soldering SMD requiring the highest precision. It includes two **NT115** Nano Handles.



NAS 2-Tool Nano Rework Station

The best solution for rework SMD requiring the highest precision. It includes **NT115** Nano Handle and **AN115** Adjustable Nano Tweezers.



Heavy Duty Stations

HD Heavy Duty Station

The most powerful soldering unit of the JBC range. It includes **T470F** Thermal Insulator Grip HD Handle.



HDP Heavy Duty Tweezer Station

Designed to reduce the soldering time in applications that requires a large amount of heatspan. It includes two **HDU** Control Units and **HT470** Heavy Duty Thermal Tweezers.



Auto Feeders

AL Auto-Feed Soldering Station

The ideal solution for soldering process requiring a free hand. The station feeds precisely the programmed amount of wire by pressing a button. It includes **AL250** Auto-Feed Iron.



SF Automatic Solder Feeder Station

Allowed to feed solder wire automatically from any position. It has three working modes: continuous, discontinuous and program mode. It includes the ergonomic **SF280** Automatic Solder Feeder and **GSF10V** Guide Kit.



Rework

DDS 2-Tool DDU Desoldering Station

DDS Station is a complete solution to rework circuits with **T245** General Purpose Handle and **DR560** Desoldering Iron.

DDU Control Unit manages up to **two tools** simultaneously and is fully compatible with 10 different JBC tools.



DDP 2-Tool DDU Precision Station

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

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

DDU Control Unit manages up to **two tools** simultaneously and is fully compatible with 10 different JBC tools.



DMS 4-Tool DMU Rework Station

DMS Station is a complete solution to rework circuits with **T245** General Purpose Handle and **DR560** Desoldering Iron.

DMU Control Unit manages up to **four tools** simultaneously and is fully compatible with 10 different JBC tools.



DMP
4-Tool DMU Precision Rework & Desoldering Station

DMP Station is a complete solution to rework circuits with **T245** General Purpose Handle, **DR560** Desoldering Iron, **T210** Precision Handle and **AM120** Adjustable Micro Tweezers.

DMU manages up to **four tools** simultaneously and is fully compatible with 10 different JBC tools.



Complete Rework Station

RMS
Complete Rework Station

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 soldering job easier, including **DR560** Desoldering Iron, **T245** General Purpose Handle and **JTT** Heater Hose Set.

DDU Control Unit manages up to **two tools** simultaneously and is fully compatible with 10 different JBC tools.



SRS
SMD Rework System

SRS SMD Rework System provides full control over SMD rework processes.

JT Hot Air Station controls the rework task using temperature and air flow profiles.

RWS Rework Arm supports the **JTT** Heater Hose Set, allowing handsfree operation.

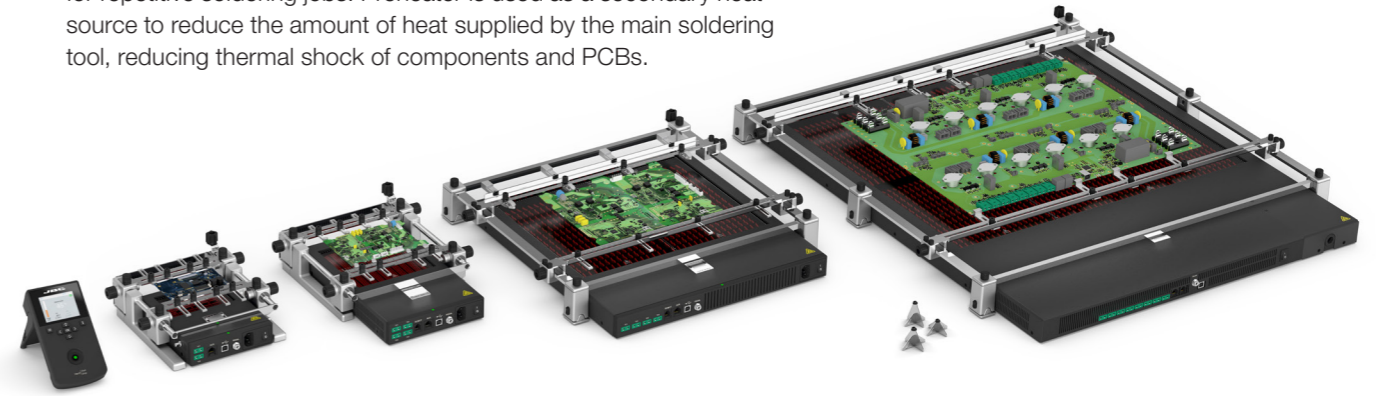
PHSK Small Preheater Set comes with **PHS** Small Preheater and **PSS** Small PCB Support.

A variety of Protectors, Extractors and Tripods are included.



Preheaters

The complete system is for preheating multi-layer PCBs and ideal for repetitive soldering jobs. 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.



PHNK Nano Preheater Set **PHSK** Small Preheater Set **PHBK** Large Preheater Set **PHXK** XL Preheater Set

Hot Air Stations

JNA
High-Precision Hot Air Station

The only Hot Air Station to rework, position and remove SMDs without affecting nearby components. It includes **NH** High-Precision Heater Hose Set and **T260** Pick & Place Handle.



TE
Precision Hot Air Station

Precision Hot Air Station capable of reworking small and medium SMDs. It includes **TET** Precision Hose Set.



JT
Hot Air Station

A high powered Hot Air Station capable of reworking all types of SMDs. It includes the **JTT** Heater Hose Set.

Wire Stripper Stations

Specially designed for stripping high-temperature wire insulations made of thermostable materials.

WSS
Precision High-Temperature Wire Stripper Station

This station includes **WS140** Precision High-Temperature Wire Stripper Tweezers.

WSB
High-Temperature Wire Stripper Station

This station includes **WS440** High-Temperature Wire Stripper Tweezers.



