

JBC

The Soldering Co.



Station 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.



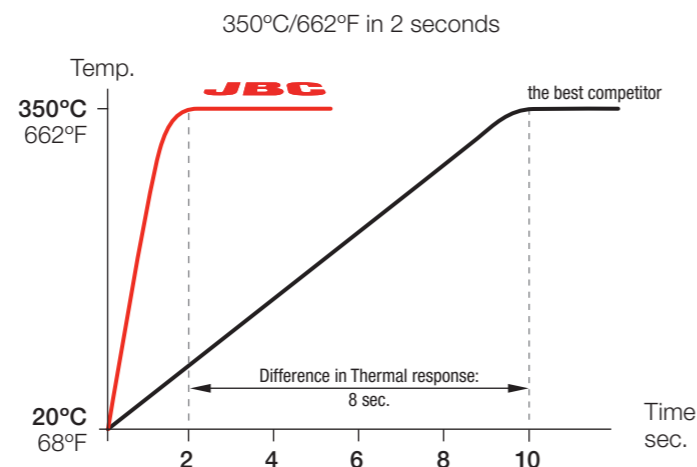
All JBC products comply with CE standards and ESD recommendations.



Most Efficient Soldering System

JBC Exclusive Heating System

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

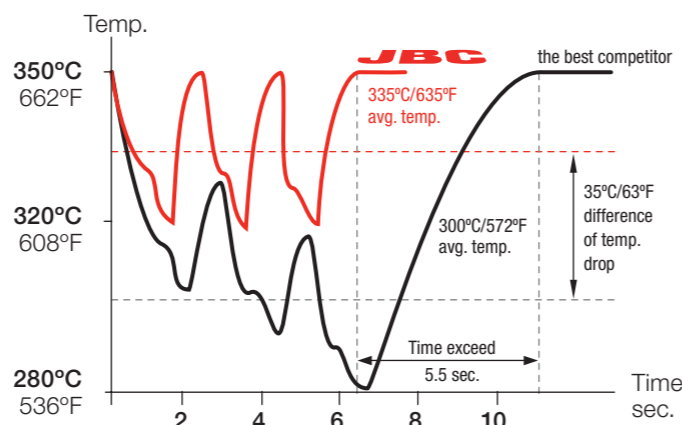


*This graph compares JBC C210 Cartridge Range to the equivalent cartridges of the best competitor.

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).

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 and Hibernation Modes** when not being used. As a result, tip life lasts up to 5 times longer.

Sleep Mode

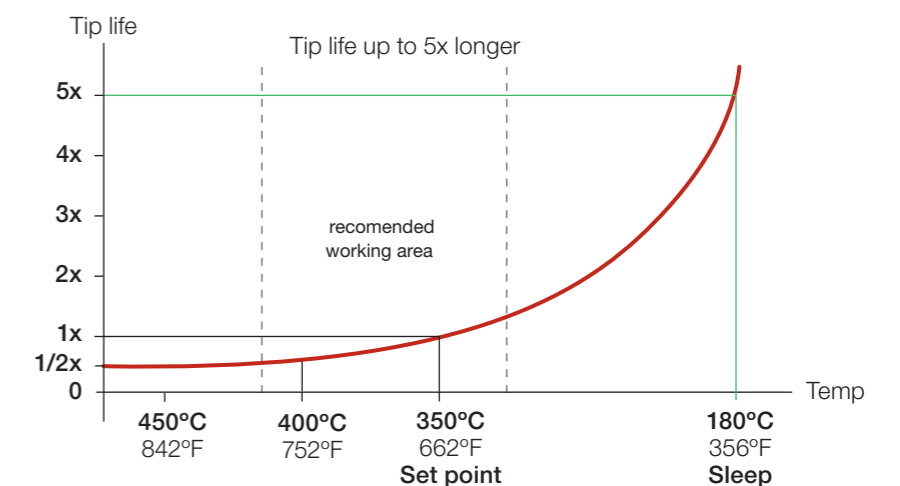
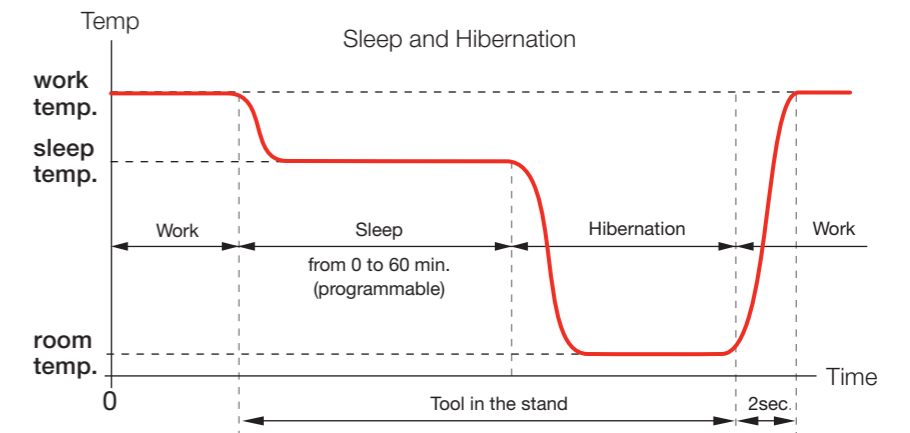
Sleep Mode automatically lowers tip temperature below the solder melting point when the tool rests in the stand. It prevents the dissolution of the tip iron coating into molten solder.

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.

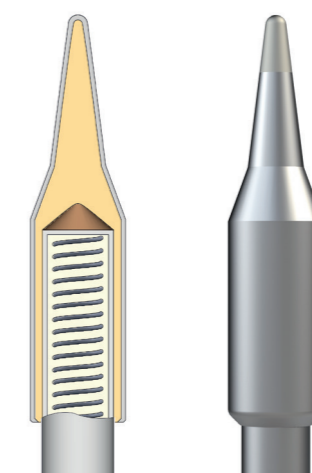
Longer Tip life

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



Cartridges with extended tip life

The essential part of the soldering iron is the tip. Therefore, JBC has over 500 cartridge models of different shapes and sizes 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**
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

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 allows to store up to four cartridges.

Work position

JBC stations are designed to suit the user's work position.

Tool Stand and Cable Collector are easily adjustable.

Intelligent Heat Management

The stations incorporate Sleep & Hibernation Modes which lower tip temperature when the tool is placed in the tool stand. As a result, JBC tips 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.

Intuitive Menu and Interface

Fast and easy station configuration 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.

Tip Cleaning System

CD Compact Stations feature a tip cleaner with antispash 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.

Now with the new accessible and replaceable earth fuse.

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

CDES / CDEB

Precision / Soldering-Assistant Station

Improve your soldering quality while improving your skills.

For more information consult CDE brochure or www.jbctools.com.



C115

Stainless steel tip
Spoon
High Thermal Performance

C115115 **C115111** **C115112** **C115120** **C115109** **C115127** **C115128** **C115211** **C115212**

C245

C245731 **C245773** **C245742** **C245774** **C245906** **C245406** **C245768** **C245944** **C245907** **C245407** **C245759** **C245770** **C245471** **C245729** **C245061** **C245911**

C245775 **C245755** **C245756** **C245908** **C245708** **C245967** **C245069** **C245966** **C245030** **C245032** **C245036** **C245930** **C245001** **C245937** **C245957** **C245903** **C245403** **C245943** **C245933** **C245107**

C245747 **C245710** **C245905** **C245405** **C245945** **C245795** **C245784** **C245793** **C245912** **C245056** **C245951** **C245766** **C245301**

Roof tip with reduced tinned surface, ideal for touchup

C245064 A = 1.3 (0.051)
C245102 A = 2 (0.079)
C245797 A = 3.8 (0.149)

C245748 **C245749** **C245962** **C245963** **C245946**

C245732 **C245761** **C245034** **C245029** **C245126** **C245786** **C245929** **C245935** **C245904** **C245259** **C245260** **C245627** **C245628**

Spoon
Chip Components

C245067 **C245965** **C245931** **C245938** **C245016** **C245017** **C245150** **C245018** **C245019**

Knife
Dual in Line
Blade
Cartridges with chrome finish, designed for use in plastics

C245789 **C245939** **C245765** **C245955** **C245220*** **C245306*** **C245305*** **C245250*** **C245215*** **C245221*** **C245226*** **C245303*** **C245315*** **C245315*** **C245352*** **C245227*** **C245344*** **C245914** **C245752** **C245913** **C245949** **C245776** **C245792** **C245138** **C245123** **C245121** **C245109**

Cartridge with chrome finish, designed for use in plastics
PTFE coated tip
Nickel tip for High Melting Point soldering
Through hole and cable soldering
Through hole drag soldering
Ideal to reach joints
Solder Pot

C245053 **C245052** **C245054** **C245119** **C245772** **C245790** **C245785** **C245763** **C245760** **C245754** **C245654*** **C245751** **C245651*** **C245667** **C245764** **C245SP01**

C245E

C245E Cartridges have a reinforced protection on the tip that provides a longer life with a small reduction of thermal efficiency.

C245159E **C245158E** **C245160E** **C245155E** **C245735E** **C245161E** **C245070E** **C245968E** **C245156E** **C245354E** **C245157E**

Chip Components
Dual in Line

C120002 **C120902** **C120006** **C120004** **C120012** **C120011** **C120001**

C120003 **C120005** **C120007** **C120008** **C120009** **C120010**

C210020 **C210009** **C210016** **C210001** **C210013** **C210003** **C210005** **C210002** **C210010** **C210014** **C210004** **C210006** **C210027** **C210031** **C210028** **C210029** **C210030** **C210019** **C210023** **C210021**

C250420 **C250401** **C250402** **C250403** **C250409** **C250410** **C250404** **C250405** **C250406** **C250412** **C250418** **C250407** **C250408** **C250411** **C250413** **C250414** **C250415**

Chip Components
Blade type
QFP & PLCC
Dual in Line

C420271 **C420272** **C420283** **C420288** **C420280** **C420279** **C420273** **C420274** **C420275** **C420276** **C420277** **C420278** **C420285** **C420286** **C420287**

C470013 **C470036** **C470014** **C470040** **C470035** **C470017** **C470009** **C470002** **C470015** **C470004** **C470016** **C470058** **C470039** **C470006** **C470007** **C470019** **C470003** **C470056**

C470064 **C470059** **C470023** **C470063** **C470061** **C470051** **C470027** **C470021** **C470022** **C470044** **C470057** **C470005**

C470048 **C470049** **C470033** **C470030** **C470037** **C470041** **C470004** **C470010** **C470042** **C470046** **C470050** **C470SP01** **C470SP42**

Pad-Cleaners Tips

C360001 **C360002** **C360003** **C360004** **C360007** **C360006** **C360011** **C360012** **C360013** **C360014**

Pad-Cleaners Tips

C560001 **C560002** **C560014** **C560003** **C560017** **C560004** **C560009** **C560005** **C560006** **C560018** **C560007** **C560015**

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 application.



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, etc.



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



Graphics
Realtime visualization of tip temperature and power delivered to the solder joint during soldering process.



Communication Station-PC
Update station software manages 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).



CLM Manual Tip Cleaner
A complete cleaning system with splashguard and antispash membrane to keep the work area clean and free of solder particles.

Premium Stations

Different solutions based on the JBC Modular System specially 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.



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.



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 heat transfer. It includes two **HDU** Control Units and **HT470** Heavy Duty Thermal Tweezers.



DDP
2-Tool DDU Precision Rework Station
DDP Rework 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.



Auto Feeders

AL
Auto-Feed Soldering Station
The ideal solution for the soldering process requiring a free hand. It includes **ALE250** Auto-Feed Iron and **GALE10V** Guide Kit.



SF
Automatic Solder Feeder Station
Allows feeding solder wire automatically from any position. It includes the ergonomic **SF280** Automatic Solder Feeder and **GSF10V** Guide Kit.



DMS
4-Tool DMU Desoldering 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.



Rework

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 the soldering job easier, including **DR560** Desoldering Iron, **T245** General Purpose Handle, **JTT** Heater Hose Set and **T260** Pick & Place Handle.

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



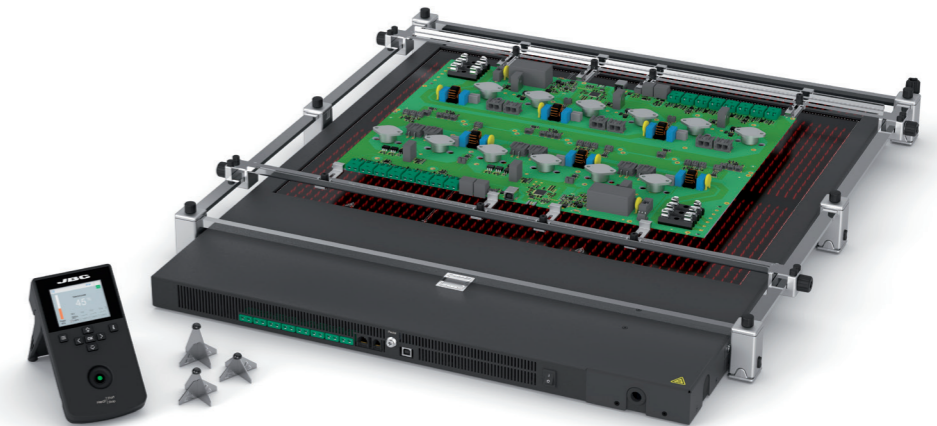
Preheaters

The complete system for preheating multi-layer PCBs and **ideal for repetitive soldering jobs**. Preheater is used as a secondary heat source to reduce the thermal gap between the soldering tool and the PCB, **reducing thermal shock of components and PCBs**.

PHXK

XL Preheater Set

This is a complete system for preheating **big-sized PCBAs** such as **communications boards, airplanes, etc.** and ideal for repetitive soldering jobs. It features a heating area of 510 x 610 mm / 20.07 x 24 in and works with up to eight thermocouples.



PHBK

Large Preheater Set

PHBK Large Preheater Set is the best solution for **rework on medium / large PCBAs**, such as the ones commonly used in circuit board and/or lap tops. It features a heating area of 360 x 277 mm / 14.2 x 10.9 in and four TC connections.



PHSK

Small Preheater Set

PHSK Small Preheater Set is the best solution for **rework on small / medium PCBAs**, such as the ones commonly used in electronics industry. It features a heating area of 130 x 135 mm / 5.12 x 5.31 in and four TC connections.



PHNK

Nano Preheater Set

It is the best solution for **rework on small PCBAs**, such as the ones commonly used in smartphones. It features a heating area of 108 x 70 mm / 4.25 x 2.75 in and two TC connections.



Hot Air Stations

JNA

High-Precision Hot Air Station

The only hot air station to rework, position and remove SMD 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 SMD. It includes **TET** Precision Hose Set.



JT

Hot Air Station

A high-powered hot air station capable of reworking all types of SMD. It includes **JTT** Heater Hose Set.



Complete Rework Station

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 **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.



Wire Stripper Stations

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

WSS

High-Temperature Precision Wire Stripper Station

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



WSB

High-Temperature Wire Stripper Station

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



A complete tooling range for high precision

Nano Rework Shop for **reworking small SMD** - such as 01005 - follows the worldwide trend of nano solutions. Its complete range of tools offers high precision and maximum control - even under a magnifying glass - allowing a **fast and efficient work process**.



