

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 catalog.

(ESD safe

All JBC products comply with CE standards and ESD recommendations.

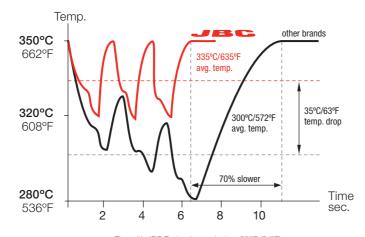


JBC Technology

Most Efficient Soldering System

JBC Stations work with JBC Most Efficient Soldering System, which **recovers tip temperature extremely quickly**. This increases work efficiency and allows the user to work with lower temperatures.

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).

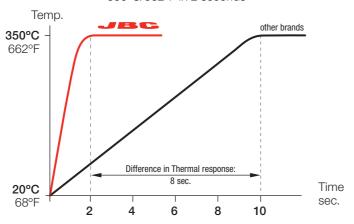


Productivity

Short tip-to-sensor distance ensures extremely quick temperature recovery and an **accurate control**.

Heating System Principles

350°C/662°F in 2 seconds



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

Intelligent Heat Management

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

Sleep Mode

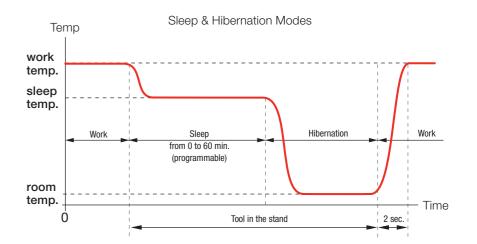
Sleep Mode automatically lowers tip temperature below the solder melting point when the tool rests in the stand. It prevents the dissolution of the iron tip coating into molten solder.

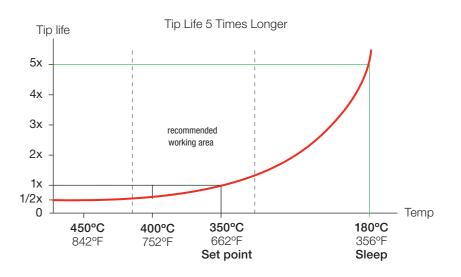
Hibernation Mode

After a configurable period of tool inactivity in the stand, the tool enters 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.

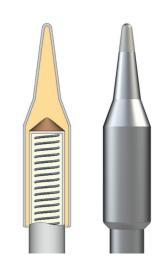




Cartridges with long life & extended tip life

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.

The intelligent algorithm control program extends tip life.

B-IRON Battery-Powered System

The easiest way of soldering

Control and configure the tool parameters **from any device**

Elevate your possibilities with our new solutions

Improve & optimize your soldering quality

By using B-IRON App, you can configure and control the system.

Alternatively, **use your own device**. You can download the APP from:





Cartridge Exchanger & Holder

Quick Cartridge Exchanger System avoids damage of the tips and allows you to have the cartidges ready for exchange.



Charging your B·IRON is effortless thanks to its **charger integrated in the stand**, which fully charges the tool while resting in Hibernation Mode, preventing tip oxidation.

Safety Cap

The tool has a power safe mode that is activated by the use of the cap. If B-IRON remains idle for more than an hour, it shuts off automatically and can only be turned on again by placing it on its charging tool holder.

Tools are designed to perfectly lie in the operator's hand, making the soldering process even **more comfortable**.



New ways to explore and expand your possibilities

Revolutionize your soldering experience with an ergonomic iron designed to provide unique **freedom in usage** and versatile functionality for an optimized performance.



Battery-Powered Stations



B-IRON NANO Battery-Powered Nano Soldering Station

High-Precision Soldering in hard-to-reach areas.



B-IRON TWEEZERS

Battery-Powered Rework Station Highest precision when reworking SMDs.



B·IRON 100

Light Battery-Powered Soldering StationDesigned for R&D and individual jobs.



B·IRON 500 Battery-Powered

Soldering Station
For electronic production and intensive jobs.



B-IRON DUAL NANO

Battery-Powered Nano Soldering Station

Unparalleled precision on two workbenches simultaneously.



B-IRON REWORK

Battery-Powered Rework Station Rework SMDs without stopping.



B·IRON DUAL 500

production.

Dual Battery-Powered Soldering Station Allows continuous work in mass

Compact Stations

A complete Soldering System

Everything you need in a **minimum footprint**

Each unit meant for a **specific purpose**



Soldering

CDN

High-Precision Soldering Station
Designed for highest-precision jobs
in any micro-soldering application,
offering maximum control working
under the microscope.

CDS/CDB

Precision/Soldering Station CDS is ideal when working on populated PCBs or under a magnifying glass. CDB is suitable for general electronics applications.

СΔ

Manual-Feed Soldering Station
Designed for those applications
requiring a free hand. Ideal for
soldering cables, connectors, etc.

The Soldering Co.







Rework

CP

Precision Rework Station
Ideal for soldering and reworking SMT
chip components, small/medium SOP
and dual in-line components.

CS

Desoldering Station Ideal for desoldering small THT components and SMD pad cleaning.

Soldering Assistant

CDE

Soldering-Assistant Station Improve your soldering quality while improving your skills.







Modular System

Build your solution

Stackable modules save work space

Fully-compatible tools with all control units

Easy-to-use menu helps work more efficiently



Station Customization Personalize the station

Personalize the station parameters according to your application/needs.



Partial Counters

Register total and partial time for each port, such as work and Sleep & Hibernation Modes in hours.



Peripherals

Connect station ports to pedals and modules, such as desoldering pump, nitrogen flow regulator, etc.



Tool Presets

Set parameters for each tool to automatically apply them.



Graphics

In real time, visualize tip temperature and power delivered to the solder joint during the soldering process.



Communication Station-PC

Manage your stations remotely via PC, export graphics and update the software.



Robot

Automate the soldering process and manage the station via robot.



Display different ports in use

Modular System Map



Control Units



DI

requirements.

1-Tool Control Unit DI Control Unit is designed for production and rework applications with low to medium thermal

DDE
2-Tool Control Unit
DDE Control Unit has 2 ports with
an output peak power of 150 W
per port, successfully carrying out
the most demanding jobs.



DME

4-Tool Control UnitDME Control Unit operates with **4 JBC Tools simultaneously.**DME provides you with extra applications: USB microscope, file storage, unit converter, etc.



Multi-tool Stations

All-purpose solutions based on JBC Modular System

2-Tool DDE

DDPE

2-Tool Precision Rework Station

This station provides a quick and secure method for reworking chip components and small outline ICs in SMD applications. It has a peak power of 150 W per tool.



DDSE

2-Tool Rework Station

DDSE presents an answer for both SMDs and highpower applications. Perfect for desoldering jobs of through-hole components and removing excess solder after SMD rework. It has a peak power of 150 W per tool.



DDSD

2-Tool Rework Station with DT530

This version features DT530 Angled Desoldering Iron, which offers an ergonomic design and enhanced functionality. DDSD station ensures high performance for **both SMD and high-power applications**, as **well as for desoldering**. It provides a peak power of 150 W per tool.



4-Tool DME

DMSE

2-Tool Rework Station

This station offers a solution for **both SMDs and high-power applications, as well as for desoldering**. It has a peak power of 150 W per tool.



пмсп

2-Tool Rework Station with DT530

DMSD includes DT530, offering a reliable desoldering with improved ergonomics and functionality. It provides a solution for both SMDs and high-power applications, as well



DMPSE

4-Tool Rework Station

DMPSE is perfect for precise soldering, SMD rework and handling high-power tasks, ensuring efficient desoldering of through-hole components. It has a peak power of 150 W per tool.



DMPSD

4-Tool Rework Station with DT530

DMPSD is a reliable option for all your reworking needs, now with DT530 and MSE-B. It consists of two handles, a desoldering iron and precision tweezers to assist you in your work. It has a peak power of 150 W per tool.



2-Tool DDE + Hot Air

RMS

Complete Rework System

RMSE Complete Rework System is not only the fastest but also the safest option for soldering and rework, including the use of hot air. It is designed with stackable modules and comes with all essential accessories to streamline your tasks. Additionally, it features JTSE, a high-powered Hot Air Station capable

of reworking various types of SMDs.



RMSD

Complete Rework System with DT530

This version is designed for both speed and safety in soldering and rework, including hot air applications. It includes the new DT530 Angled Desoldering Iron. It delivers high-quality results with improved ergonomics and functionality, ensuring consistent performance for all your rework needs.





Nano Stations

Designed for offering maximum control working under the magnifying glass

The best solution for soldering and desoldering components such as chips **01005**, **0201**, **0402**, etc.

Nano Stations work with

JBC Most Efficient Soldering

System, which improves
the soldering quality



NASE 2-Tool Rework Station The best solution for rework SMDs requiring the highest precision.

It has a peak power of 14 W per tool and more than 30 different cartridge shapes.



High-Precision Hot Air Station

Experience the versatility of JNA thanks to its capacity to rework a wide range of components

Rework SMDs on areas with minimal separation without affecting nearby components

Rework a wide range of components using the new bent hot air cartridges

JNA

High-Precision Hot Air Station

The perfect combination of **NH Handle** and **Hot Air Cartridges** allows you to direct the heat onto the selected component. Thanks to its design and ergonomics, it enables you to work comfortably under a magnifying glass.



Hot Air Stations

The highest-quality contactless desoldering

Our range of tools allows you to repair all types of SMDs quickly and safely

JBC Hot Air Stations have the capability of controlling precise temperature and airflow

TESE

Precision Hot Air Station
Precision hot air station capable of
reworking small and medium SMDs.
It has a peak power of 300 W and with
2 to 17 SLPM air flow.

An external thermocouple connection for high-precise close-loop control of the component/PCB during the rework process.



JTSE

Power Hot Air Station

A high-powered hot air station capable of **reworking all types of SMDs**. It has a peak power of 700 W and with 5 to 50 SLPM air flow.

An external thermocouple connection for high-precise close-loop control of the component/PCB during the rework process.



SRS

SMD Rework System

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

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

PHSEK Preheater Set includes PHSE Preheater and PHSS PCB Support.





Automatic-Feed Stations

Consistently dispense programmed amounts, ensuring uniform soldering joints

Makes soldering components easy, giving the operator **one**free hand for more stability in the soldering process

Work without interruptions

makes the process more efficient

ALE



SF

Automatic Solder-Wire Feeder Station
Allows feeding solder wire automatically
from any position.

It features solder wire perforation, allowing better flux flow and outgassing.



Heavy Duty Stations

Industrial equipment ready to work intensively

250 Watts peak power for **high-thermal demands** and prolonged soldering applications

Used in production of solar panels, multi-layered circuits and components of large dissipation surfaces

HDE



HULK

Heavy Duty Rework Station
Designed to reduce the soldering time in applications that require a large amount of heat transfer.
It has a peak power of 250 W.



PHBEK

Preheater Set for PCBs up to 36 x 28 cm / 14 x 11"

The best solution to rework medium / large PCBAs, such as the ones commonly used in laptops or PCB panels.

PHSEK

Preheater Set for PCBs up to 13 x 13 cm / 5 x 5" Complete solution to rework small / medium PCBAs, such as the ones commonly used in electronics industries.

PHNEK

Preheater Set for PCBs up to 11 x 7 cm / 4 x 3" The best solution to rework small PCBAs, such as the ones commonly used in smartphones.

Preheaters

Forget about thermal shock

Matchless reliability in temperature accuracy and control of the PCBA

3 Work Modes safer and easier with up to 8 thermocouples

Independent work zones to be turned on/off

PHXLEK

Preheater Set for PCBs up to 51 x 61 cm / 20 x 24"
This is a complete system for preheating big-sized PCBAs such as communications boards, airplanes, etc. and ideal for repetitive soldering jobs.











Wire Stripper Stations

High-temperature wire stripping

Wire insulations made of thermostable materials such as Teflon*, Kapton*, silicone rubber, etc. from 40 to 14 AWG (0.08 to 1.63 mm / 0.003 to 0.064 in) with temperatures of up to 800°C / 1470°F

High-Temperature Precision Wire Stripper Station Its improved tweezer design makes it a small, ergonomic, handy and very safe tool, preventing burns even when reaching very high temperatures.

Tip Cleaning Systems

Invest your time in soldering, not cleaning

Clean the tip in less than a second. With automatic cleaners you save time and optimize production

A clean tip is always easier to tin, resulting in higher quality solder joints



CLMUP

Automatic Tip Cleaner with Fiber Brushes (non-metal) Perform a thorough and gentle tip cleaning. Regular usage recommended to improve tip life.



CLMS

Automatic Junior Tip Cleaner Improve thermal transfer of the tip in only 1 second. It fits in any work area thanks to its reduced size and is very easy to maintain.



CL

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

Fume Extractors

FAE1 is the most effective solution to avoid exposure to solder fumes

FAE1

Fume Extractor with FAE1100 for 1 Workbench

FAE1 only operates when soldering and features a unique vacuum system integrated into the stand.

Each arm offers 80 m³/h aspiration, optimizing fume extraction for two workbenches. It surpasses industry standards, ensuring higher air quality and compliance.



Accessories

Work faster, easier and safer with our variety of complements for soldering & desoldering



DPM

Manual Paste Dispenser Precise dosage for solder paste,

adhesive, solder flux, etc.

– ideal for SMT rework.



ESD PRODUCT LINE

ESD Table Mats

Protect the operator and equipment from static electricity discharges by draining the static electricity from objects placed on its surface.



DCC

Multiaxis Rotative PCB Support

Ensures fast and precise PCB handling in any position. Turn your PCB upside-down (180°) in one movement. Designed to simplify your work, with or without preheater.



TWEEZERS

for precision in electronics

Thanks to the tip design, these are well suited, especially for SMT.



CUTTERS & PLIERS

for electronics

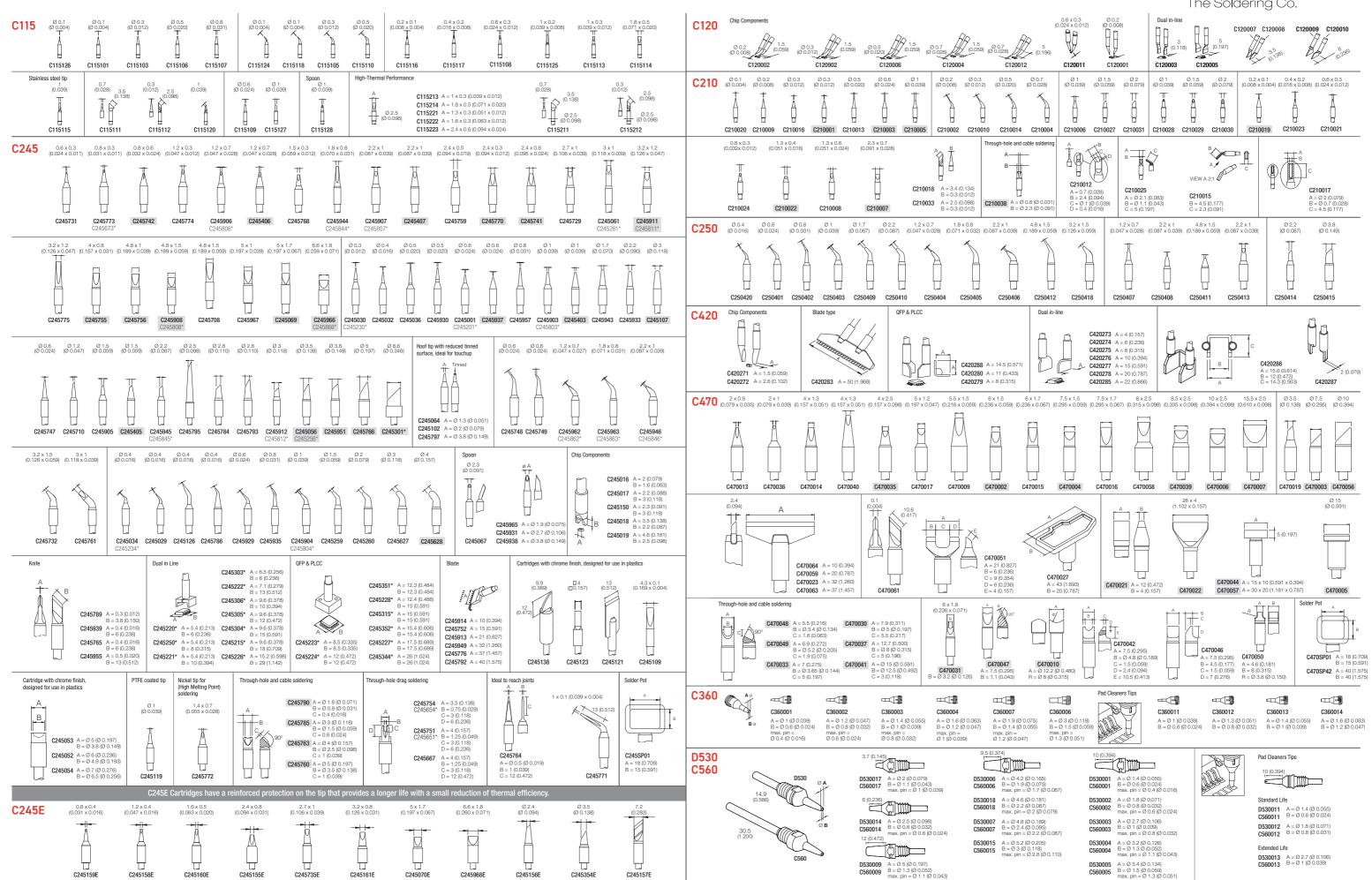
Suitable for a wide range of electronics applications. Full line designed according to ESD safety regulations.

Cartridge Map

Over **500** Cartridges & **Customized** models

See the **full range** on our website





C245354E

C245968E

C245156E

C245157E

C245155E

C245735E

C245161E

C245070E

C245160E

C245159E

C245158E



