

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.

CE
ESD safe

All JBC products comply with CE standards and ESD recommendations.



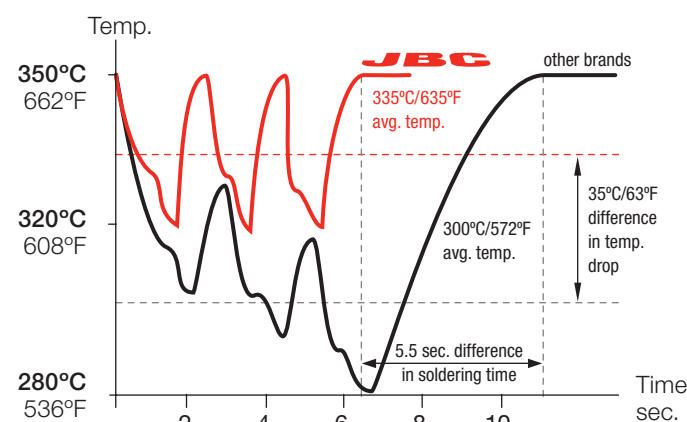
JBC Technology

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).

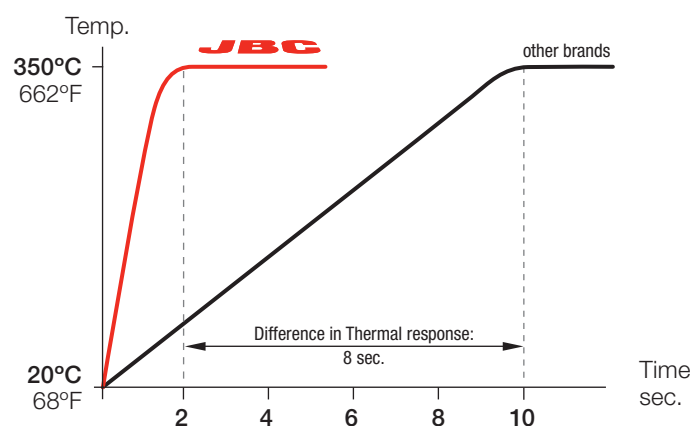
Enhanced Temperature Efficiency ➔ Increased Productivity + Better Quality

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

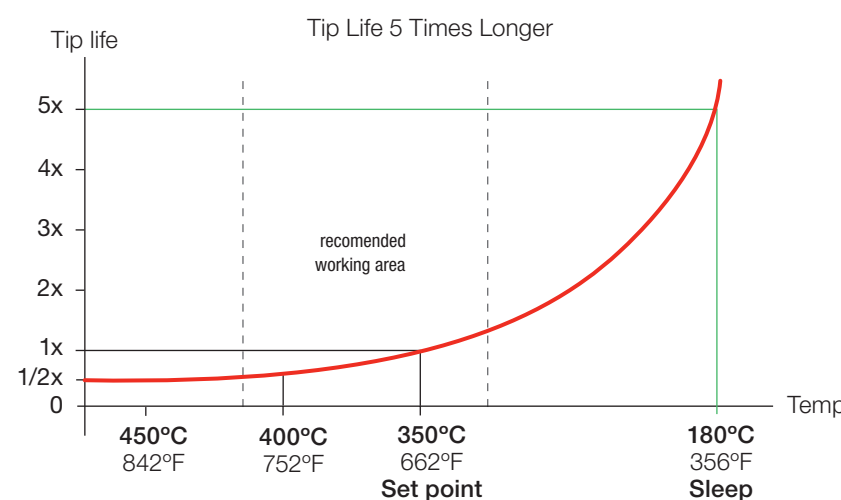
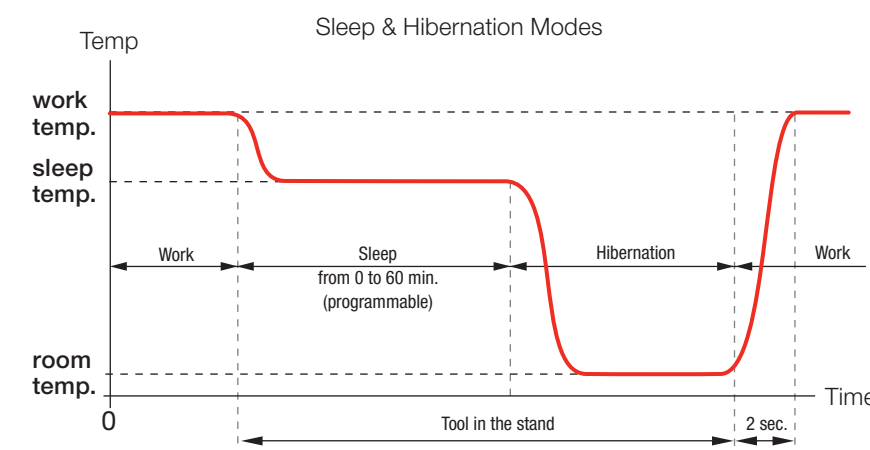
Sleep Mode **automatically lowers tip temperature** below the solder melting point when the tool rests in the stand. It prevents the dissolution of the iron tip coating into molten solder.

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**.

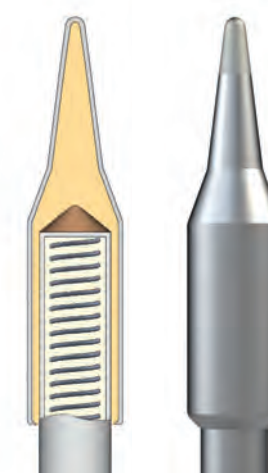
Longer Tip life

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.
- **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



Soldering

CDN
High-precision Soldering Station
Designed for **highest-precision jobs** in any micro-soldering application, offering **maximum control working under the microscope.** It includes NT115 Nano Handle.

CDS/CDB
Precision/Soldering Station
CDS is **ideal when working on populated PCBs** or under a magnifying glass. It includes T210 Precision Handle. CDB is **suitable for general electronics applications.** It includes T245 General Purpose Handle.

CA
Manual-Feed Soldering Station
Designed for those applications **requiring a free hand.** Ideal for soldering cables, connectors, etc. It includes AP250 Manual-Feed Soldering Iron.



Rework

CP
Precision Rework Station
Ideal for soldering and **reworking SMT chip components**, small/medium SOP and dual line components. It includes AM120 Adjustable Micro Tweezers.

CS
Desoldering Station
Ideal for **desoldering small THT components and SMD pad cleaning.** It includes DS360 Micro Desoldering Iron.



Soldering Assistant

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

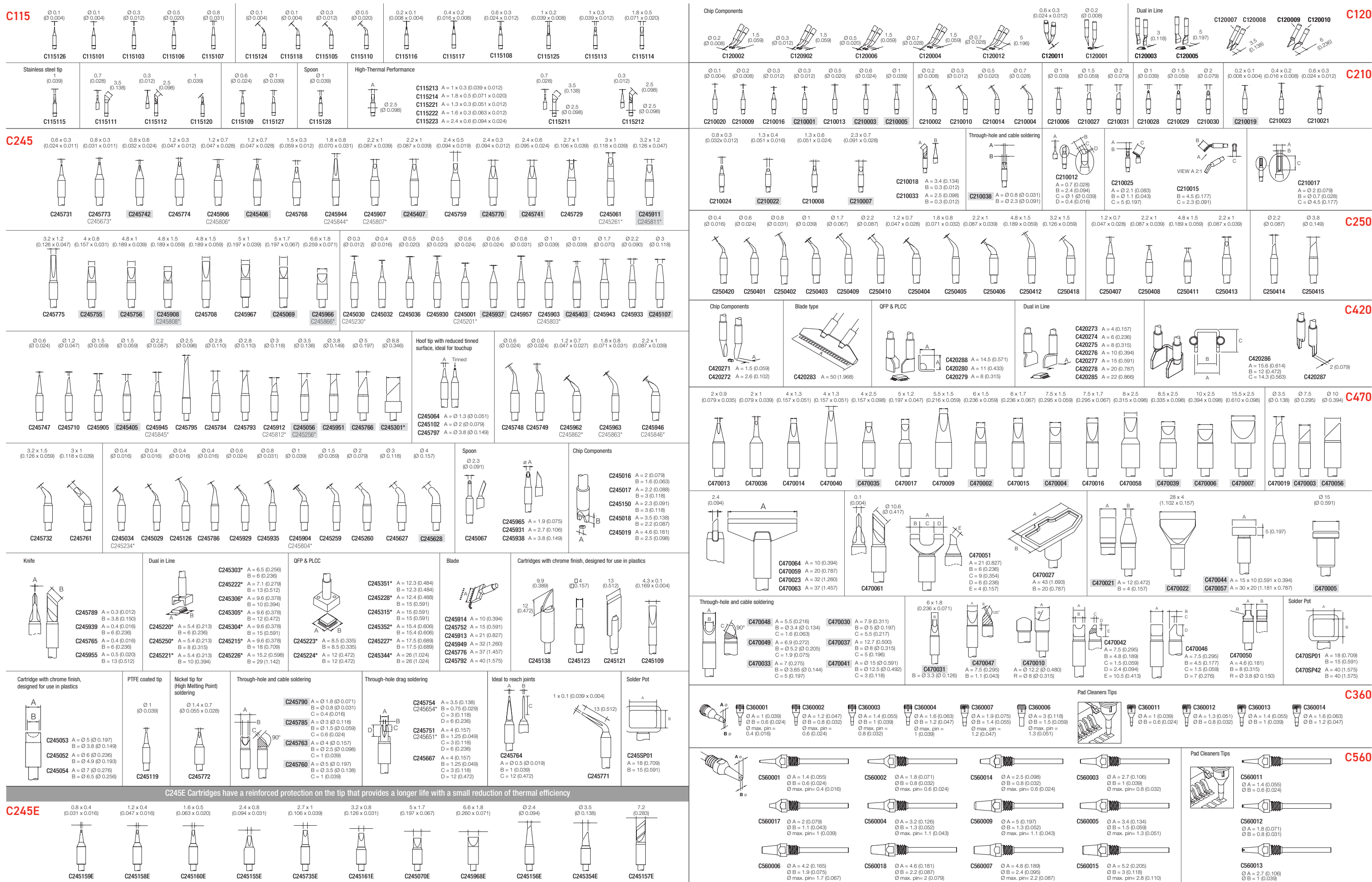
For more information consult CDE brochure or www.jbctools.com



Cartridge Map

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

See the **full range** on our website



C0000000 High Thermal Efficiency Cartridges: These are characterised by their optimised tip geometries which achieve improved thermal efficiencies of up to 40%.
C0000000* These cartridges are 20mm longer than normal cartridges for easier access to difficult-to-reach joints.

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



Station Customization
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.



Modular System Map



Tip Cleaning Systems



CLMUP
Automatic Tip Cleaner with Fiber Brushes
Perform a thorough and **gentle tip cleaning**. Regular usage recommended to improve tip life.

CLMU
Automatic Tip Cleaner with Metal Brushes
Perform a thorough and **stringent cleaning** to recover the tip in order to increase heat transfer. Recommended for deep cleaning.

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.

Premium Stations

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

Nano Stations

NANE

2-Tool Soldering Station

The best solution for **soldering SMD** requiring the highest precision.

It includes two NT115 Nano Handles.



NASE

2-Tool Rework Station

The best solution for **rework SMD** requiring the highest precision.

It includes NT115 Nano Handle and AN115 Adjustable Nano Tweezers.



Rework Stations

DDPE

2-Tool Precision Rework Station

DDPE 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.

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



Heavy Duty Stations

HDE

Heavy Duty Soldering Station

The **most powerful soldering unit** of the JBC Range.

It includes T470F Thermal Insulator Grip HD Handle.



HDEK

Heavy Duty Rework Station

Designed to **reduce the soldering time in applications that require a large amount of heat transfer.**

It includes two HDE Control Units and HT470 Heavy Duty Thermal Tweezers.



DDSE

2-Tool Rework Station

DDSE Station is a **complete solution to rework circuits with medium power requirement** with T245 General Purpose Handle and DR560 Desoldering Iron.

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



Auto-Feed Stations

ALE

Automatic-Feed Soldering Station

The ideal solution for the **soldering process requiring high productivity.**

It includes ALE250 Automatic-Feed Soldering Iron and GALE10V Guide Kit.



SF

Automatic Solder-Wire Feeder Station

Allows **feeding solder wire automatically from any position.**

It includes the ergonomic SF280 Auto Solder-Wire Handle and GSF10V Guide Kit.



DMSE

2-Tool Rework Station

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

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



Rework Stations

DMPSE

4-Tool Rework Station

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

DME manages up to four tools simultaneously and is fully compatible with 10 different JBC Tools.



Complete Rework System

RMSE

Complete Rework System

The **quickest and safest solution to solder and rework all kinds of SMDs**.

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

MSE Electric Desoldering Module is indispensable for a complete desoldering process.

JTSE Hot Air Station controls the rework task using temperature and airflow profiles.

This station includes DR560 Desoldering Iron, T245 General Purpose Handle and JTT Heater Hose Set.



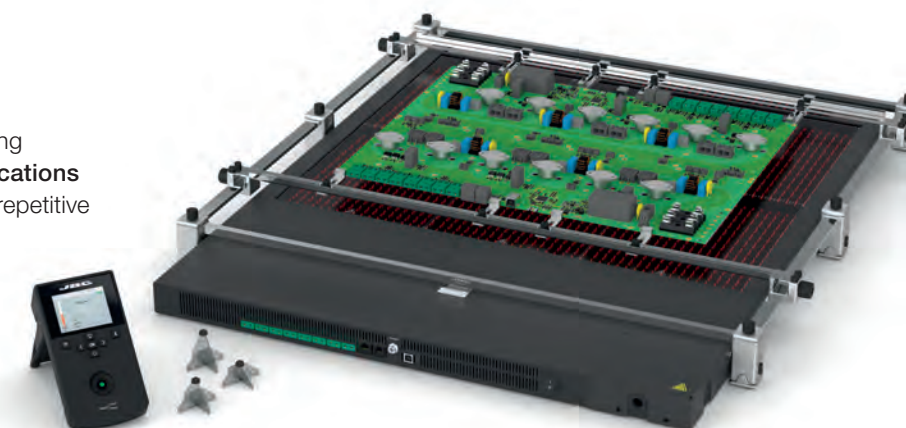
Preheaters

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

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.



PHBEK

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

PHBEK 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**.



PHSEK

Preheater Set for PCBs up to 13 x 13 cm / 5 x 5"

PHSEK Small Preheater Set is the best solution for **rework on small / medium PCBAs, such as the ones commonly used in electronics industry**.



PHNEK

Preheater Set for PCBs up to 11 x 7 cm / 4 x 3"

Is the best solution for **rework on small PCBAs, such as the ones commonly used in smartphones**.



Hot Air Stations

JNASE

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.



TESE

Precision Hot Air Station

Precision hot air station capable of **reworking small and medium SMD**.

It includes TET Precision Hose Set.



JTSE

Power Hot Air Station

A high-powered hot air station capable of **reworking all types of SMD**.

It includes JTT Heater Hose Set.



SMD Rework System

SRS

SMD Rework System

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

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

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

PHSEK Preheater Set comes with PHSE Preheater and PHSS PCB Support.

A variety of Protectors, Extractors and Tripods are included.



Wire Stripper Station

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 WS140 High-Temperature Wire Stripper Tweezers.



A complete tooling range for high precision

High-Precision 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**.



ESD safe



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