

# 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**

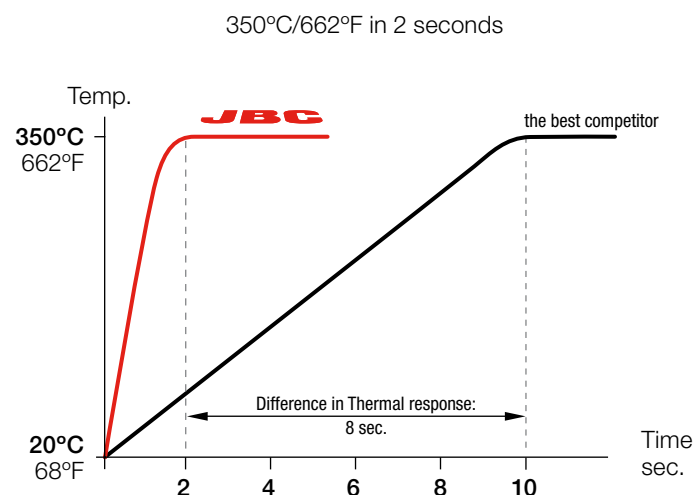
All JBC products comply with CE standards and ESD recommendations.



# 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.

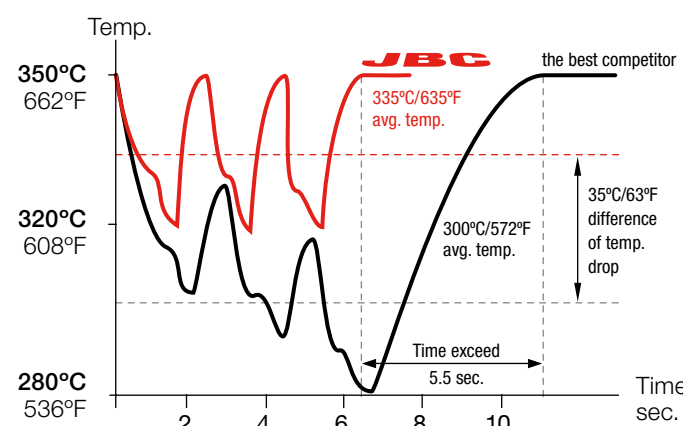


\*This graph compares JBC C210 Cartridge Range to the equivalent cartridges of the best competitor.

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

### Sleep Mode

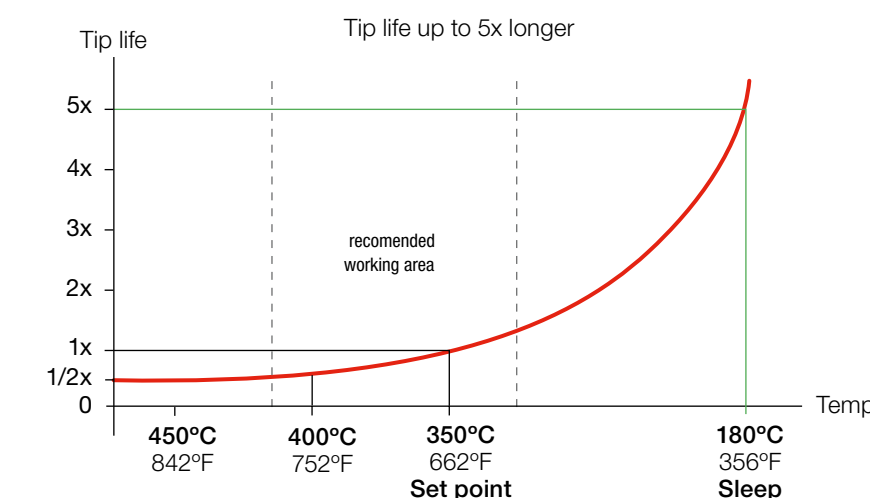
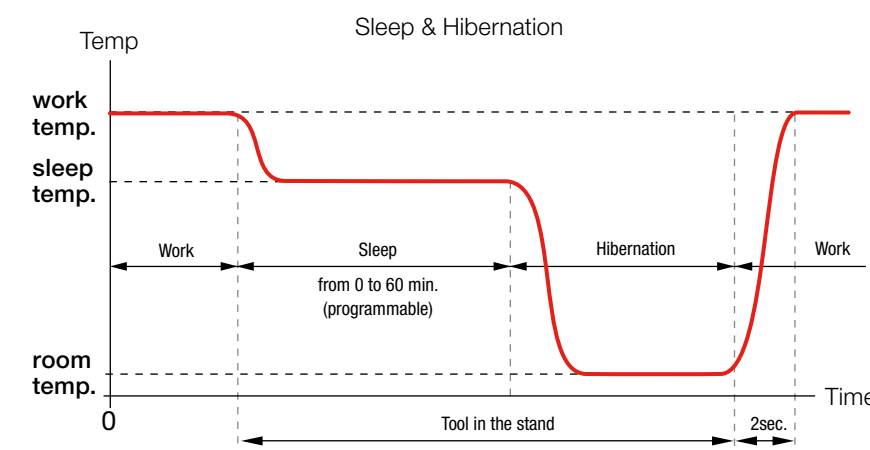
**Sleep Mode** automatically lowers tip temperature below the solder melting point when the tool rests in the stand. It prevents the dissolution of the tip iron coating into molten solder.

### 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**



## 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

#### Soldering-Assistant Stations

Improve your soldering quality while improving your skills.

For more information consult CDE brochure or [www.jbctools.com](http://www.jbctools.com)



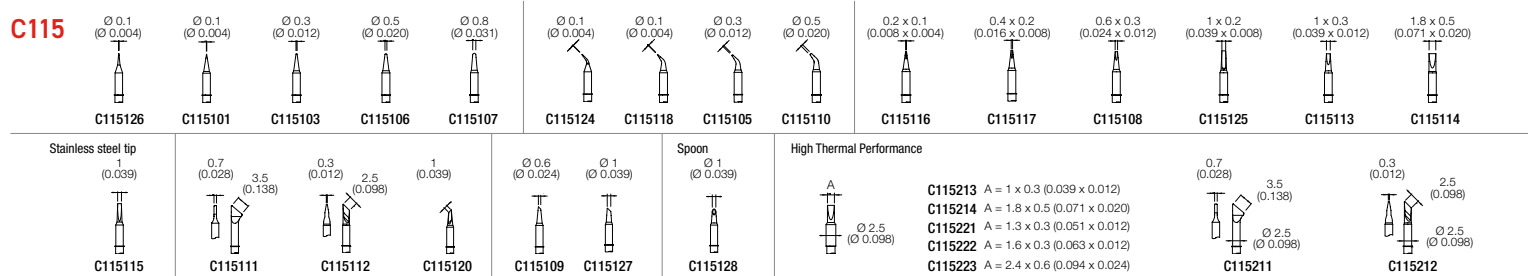
# Cartridge Map

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

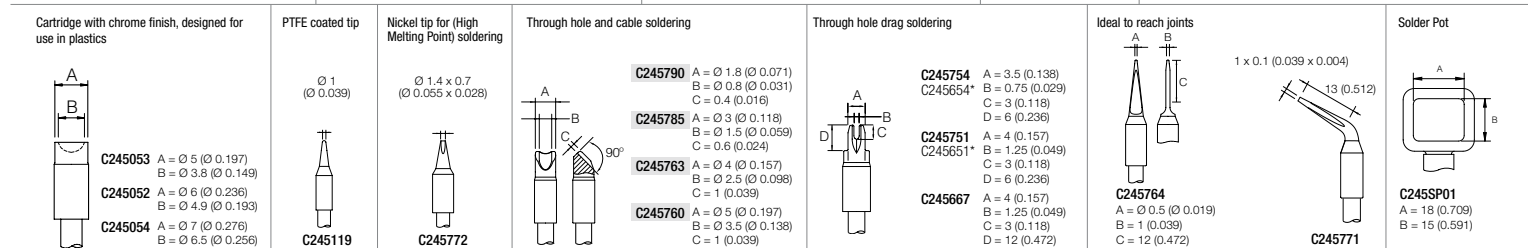
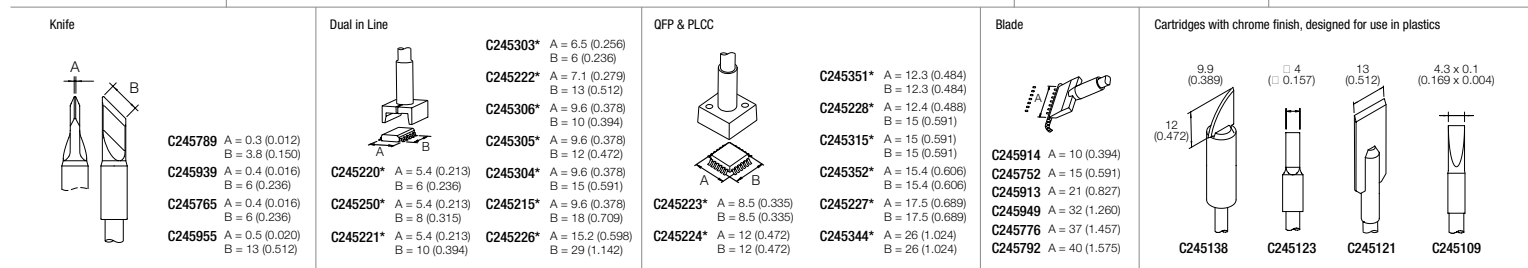
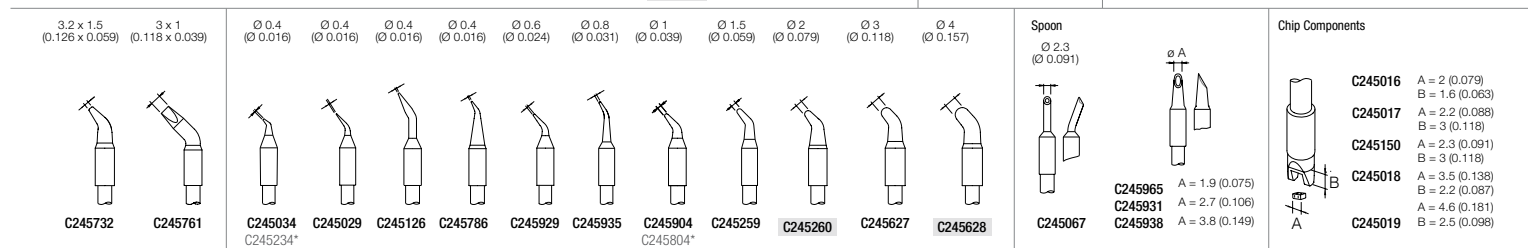
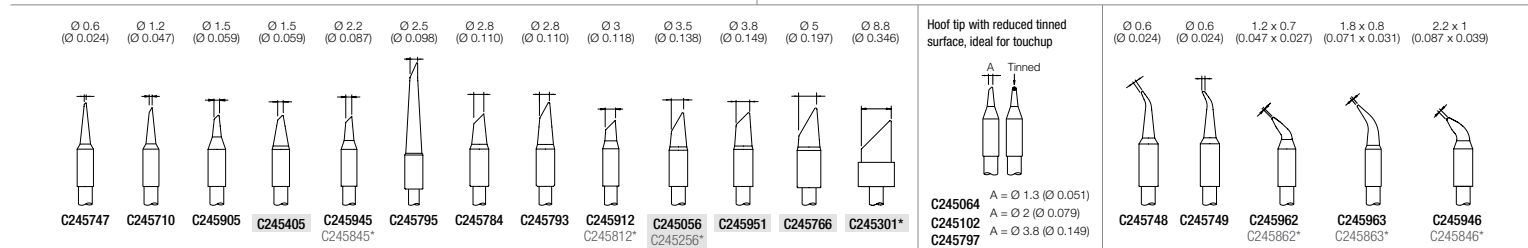
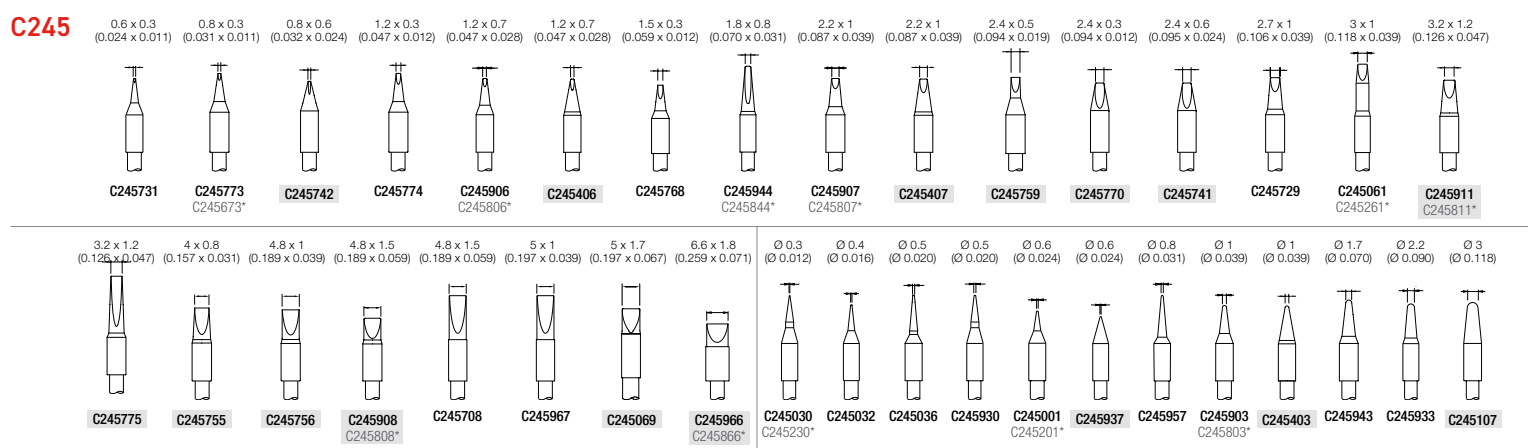
See the **full range** on our website



**C115**

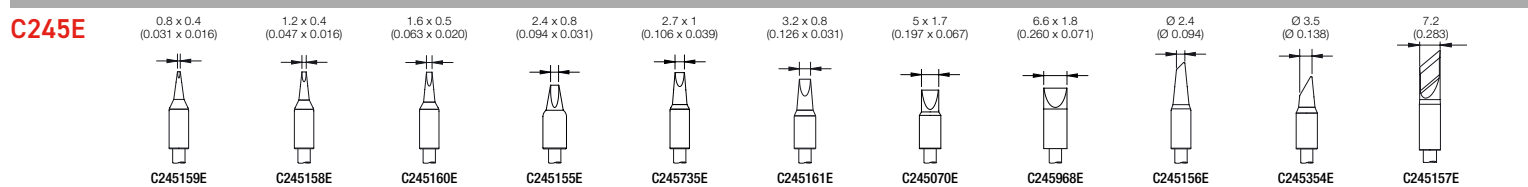


## C245

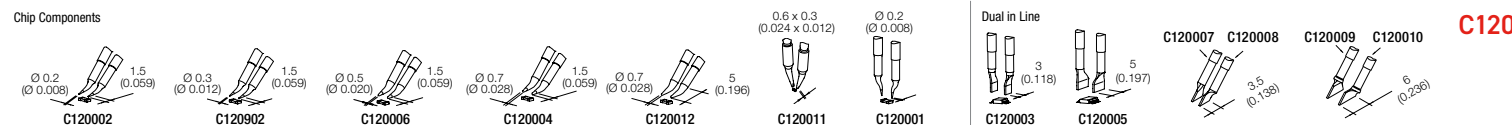


C245E Cartridges have a reinforced protection on the tip that provides a longer life with a small reduction of thermal efficiency.

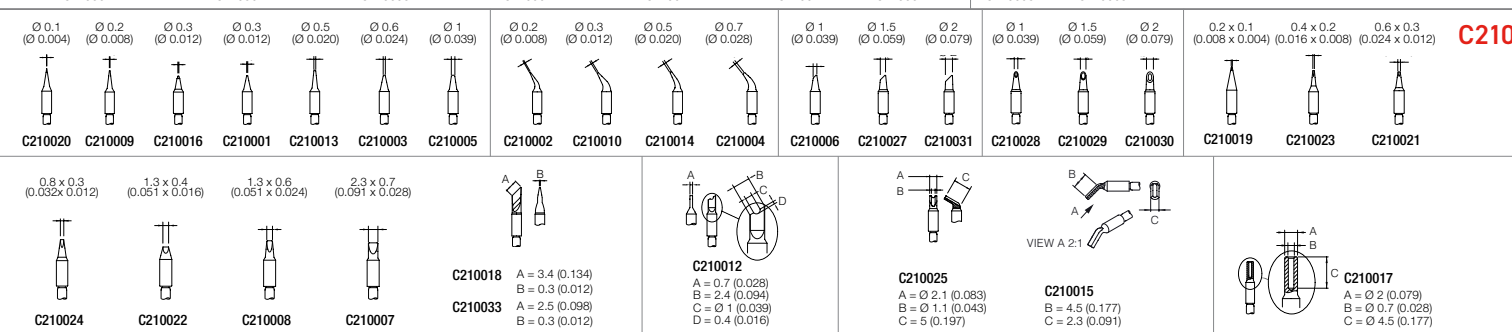
## C245E



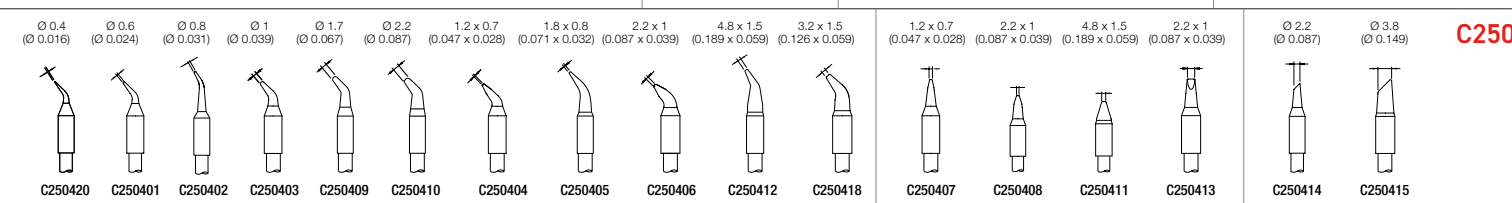
### Chip Components



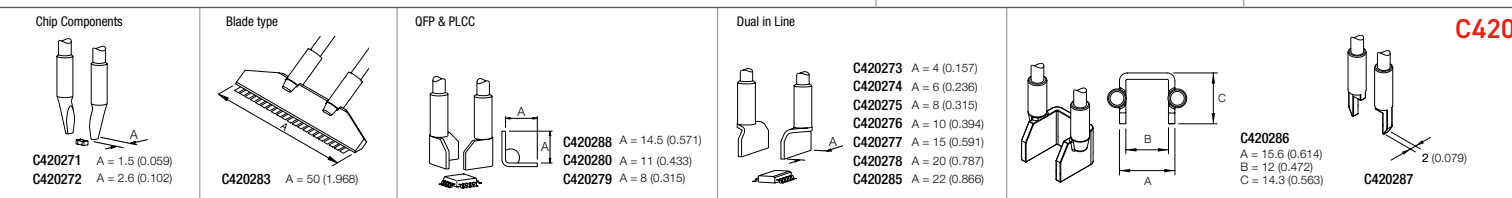
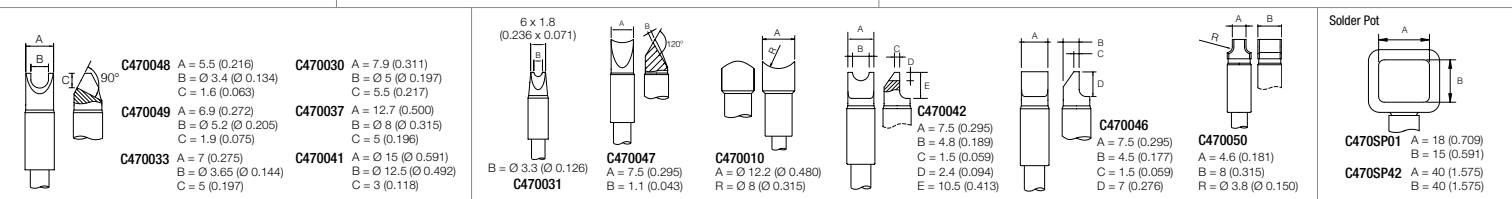
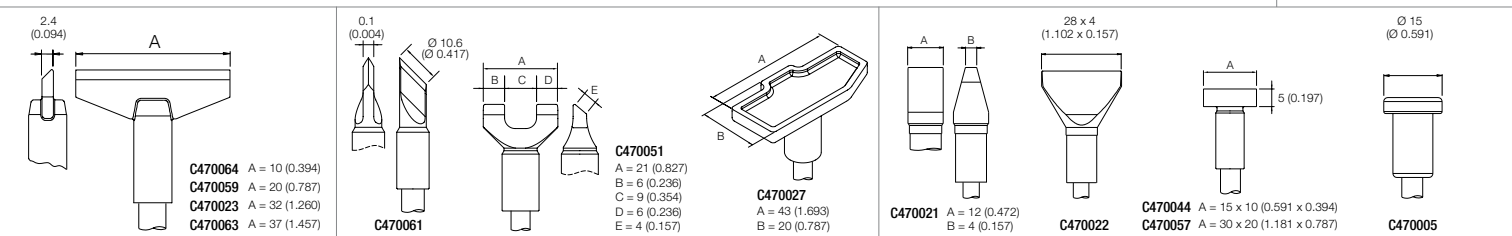
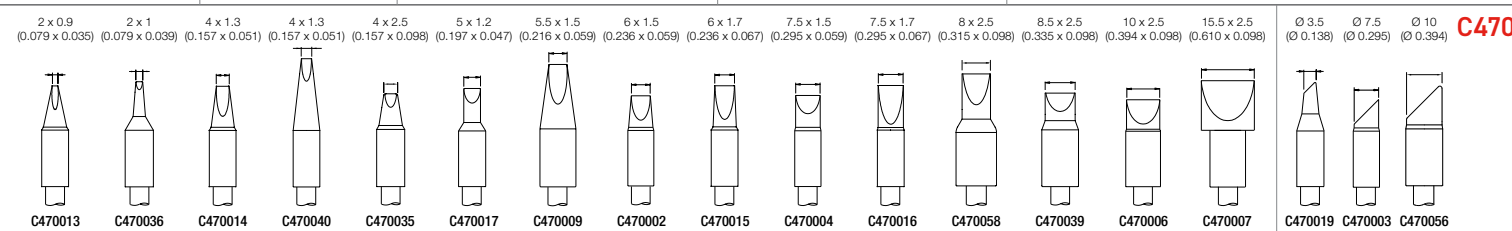
Ø 0.1  
(Ø 0.004)



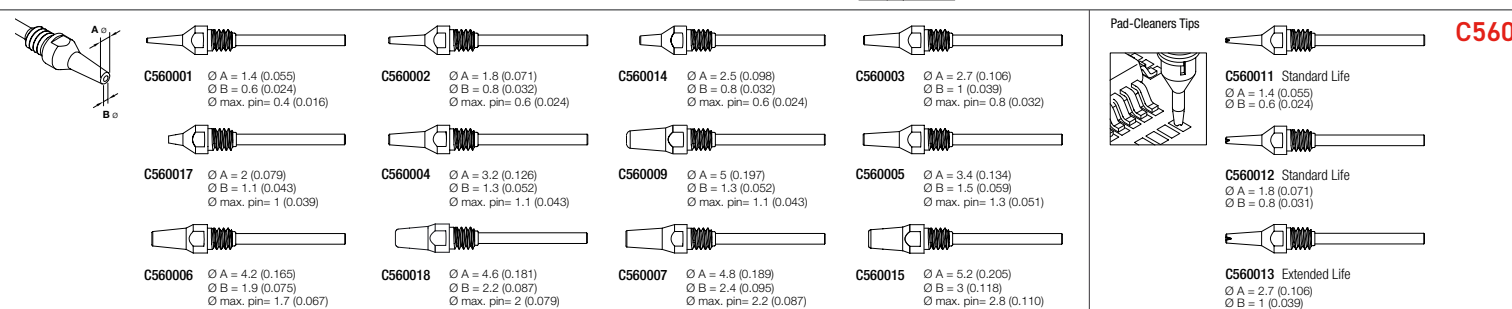
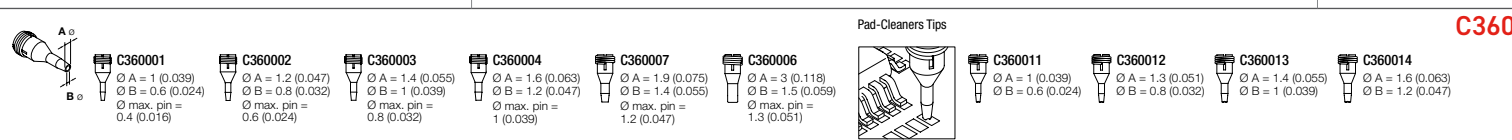
Ø 0.4  
(Ø 0.016)



Chip Component


$$\begin{array}{l} 2 \times 0.9 \\ (0.079 \times 0.035) \end{array}$$


**A 0**



**CO000000** High Thermal Efficiency Cartridges: These are characterised by their optimised tip geometries which achieve improved thermal efficiencies of up to 40%.  
**CO000000\*** These cartridges are 20mm longer than normal cartridges for easier access to difficult-to-reach joints.

millimeters / (inches)

# 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.



TFT screen

See % power for each port

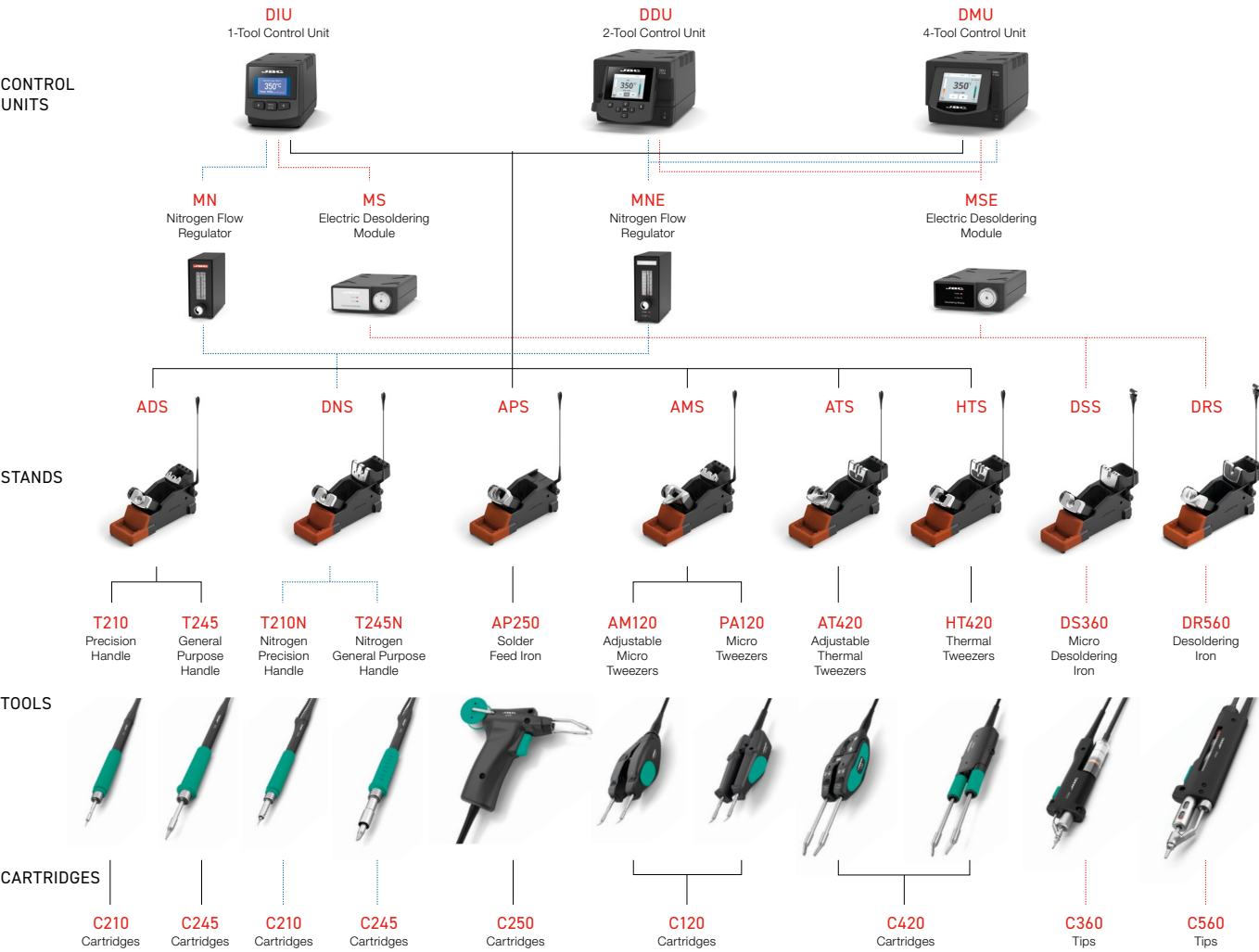
Display different ports in use

USB-A  
Software Updating & export graphics

Tool in use

Consult the comprehensive help for each parameter

## 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 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

### 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 heat transfer.

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



## Auto Feeder Stations

### ALE

#### 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.



## Rework Stations

### DDP

#### 2-Tool DDU Precision Rework Station

DDP 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.



### 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.



### 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 Stations

### 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.

**DDU** 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.

**JT** 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

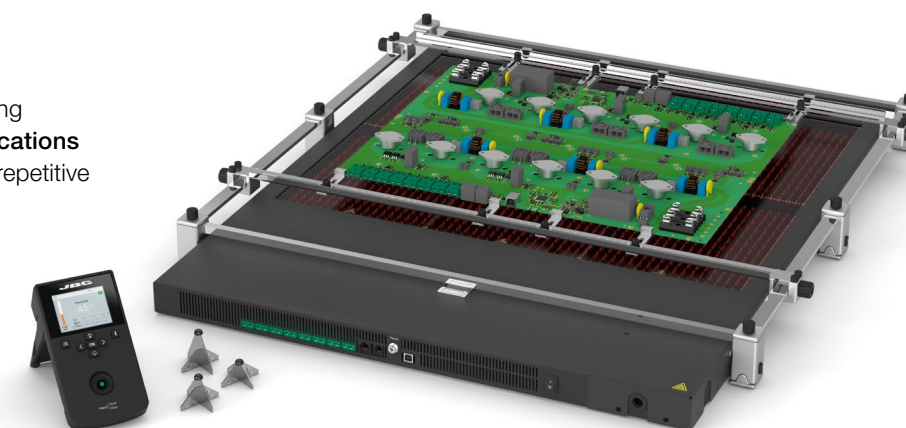
The complete system for preheating multi-layer PCBs and **ideal for repetitive soldering jobs**. Preheater is used as a secondary heat source to reduce the thermal gap between the soldering tool and the PCB, **reducing thermal shock of components and PCBs**.

### PHXX

#### 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.



## SMD Rework System

### 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**.



