

JBC

The Soldering Co.



ALE

Automatic-Feed Soldering Station

ALE Automatic-Feed Soldering Station

The ideal solution for soldering processes requiring a free hand.

Intuitive menu and interface

A **user-friendly interface** that allows you to program and personalize your station, feeder and tool settings to make your soldering process more productive.

It allows the operator to work more efficiently thanks to its **3 working modes**:

Continuous Mode - Allows the operator to **manually control the amount of solder wire being fed** at selected speed.

Discontinuous Mode - Allows the operator to **program the solder-wire speed and length** that will automatically be dispensed when the button of the tool is pushed.

Program Mode - The operator can **customize up to 5 programs, each one with 3 different steps**, making the process more dynamic and efficient.

Guide Sets

Available with or without solder-wire perforation. **The perforation allows better flux flow and outgassing**, avoiding solder and flux splashing during the soldering process.



Solder Wire
The station allows a solder reel of **up to 2kg / 4.40 lb (DIN 100)**.



Quick Cartridge Extractor and Holder

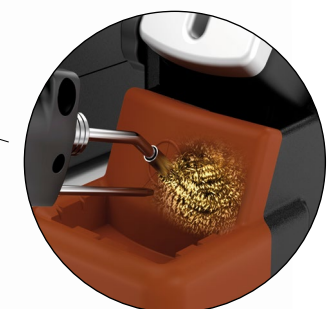
Save time and increase productivity by using **Quick Cartridge Extractor**, which facilitates **fast and safe use**.

Cartridge Holder allows storing of up to four cartridges.

Intelligent Heat Management

The station incorporates **Sleep & Hibernation Modes**, which lower tip temperature when the tool is placed in Tool Holder.

As a result, JBC tip life is up to 5 times longer than other brands.



Tip Cleaning System

The stand includes an integrated tip cleaner with antislash rubber to **prevent splashes of solder particles** and maintain the work area clean.

The most complete **Cleaning System** allows you to choose from two safe methods according to your needs: metallic wool and sponge.

Specifications

Ref. - Voltage (AC) / Fuse	ALE-910VA - 100V
	ALE-110VA - 120V
	ALE-210VA - 230V
Selectable temperature	90 to 450 °C / 190 to 840 °F
Operating temp. range	10 to 50 °C / 50 to 122 °F
Output peak power	150 W - 23.5 V

Connectivity	USB - B
Tip-to-ground resistance	<2 ohms
Tip-to-ground voltage	<2 mV RMS
Equipotential bonding	Connection to EPA
<i>Complies with CE standards. ESD Protected.</i>	

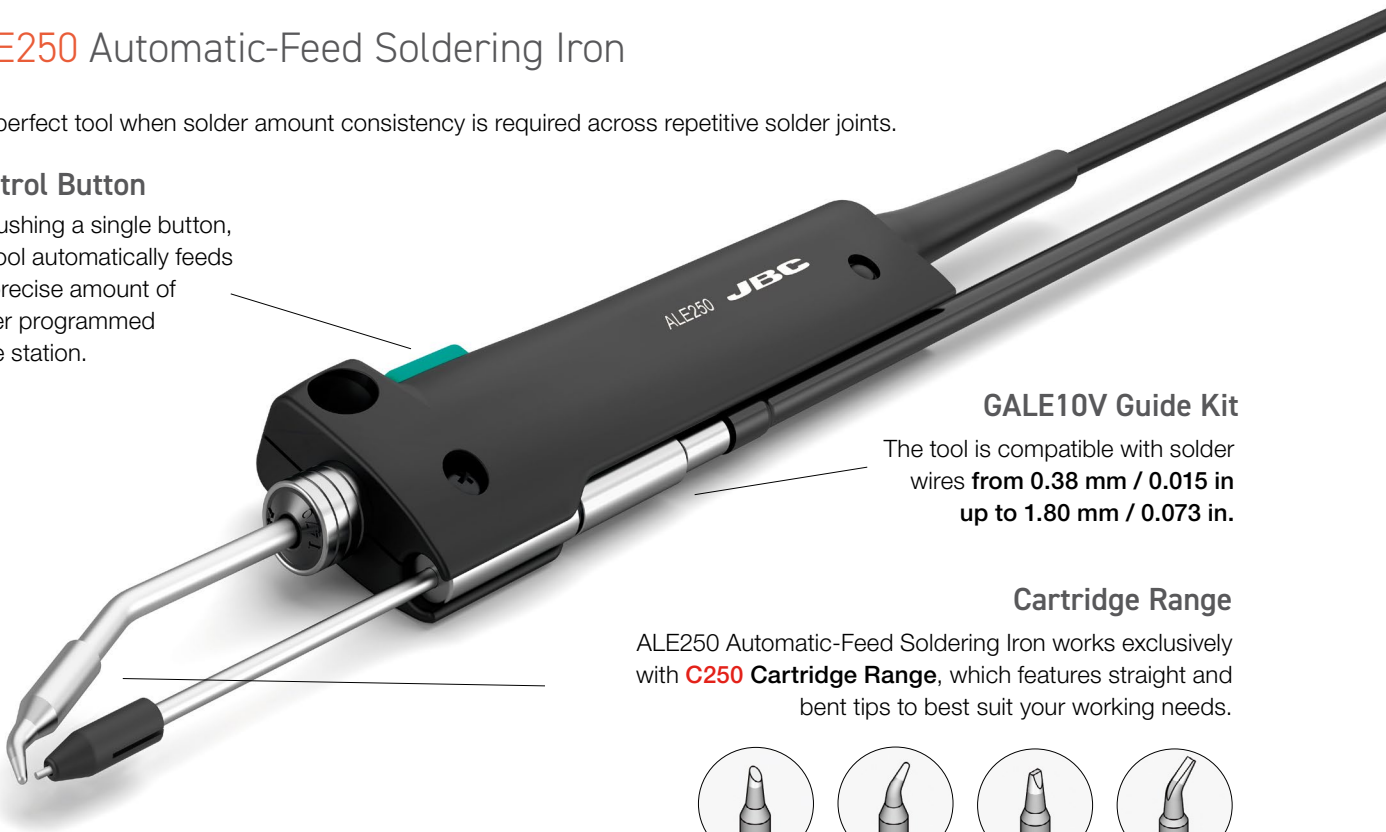
Compatible solder reel	Weight - up to 2 kg
	Diameter - max. 100mm
	Height - max. 100mm
Wire diameter	0.38 - 1.8 mm / 0.015 - 0.073 in
Max. wire length	250 mm/s / 4.72 in/s
Max. forward speed	50 mm/s / 4.72 in/s

ALE250 Automatic-Feed Soldering Iron

The perfect tool when solder amount consistency is required across repetitive solder joints.

Control Button

By pushing a single button, the tool automatically feeds the precise amount of solder programmed in the station.

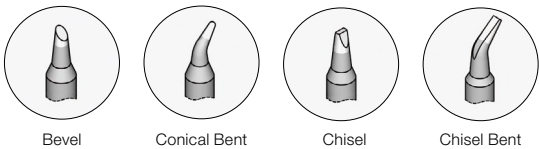


GALE10V Guide Kit

The tool is compatible with solder wires from 0.38 mm / 0.015 in up to 1.80 mm / 0.073 in.

Cartridge Range

ALE250 Automatic-Feed Soldering Iron works exclusively with **C250 Cartridge Range**, which features straight and bent tips to best suit your working needs.



Guide Tube Sets for ALE250



References with Solder-Wire Perforation

Ref.	Solder-Wire Ø
GALE08V	0.8 mm / 0.032 in
GALE10V	1.0 mm / 0.040 in
GALE12V	1.2 mm / 0.047 in
GALE15V	1.5 mm / 0.059 in
GALE16V	1.6 mm / 0.063 in

References without Solder-Wire Perforation

Ref.	Solder Wire Ø
GALE04D	0.38-0.40 mm / 0.015-0.016 in
GALE05D	0.46-0.56 mm / 0.018-0.022 in
GALE06D	0.60-0.64 mm / 0.023-0.025 in
GALE07D	0.70-0.78 mm / 0.028-0.031 in
GALE08D	0.80-0.82 mm / 0.032-0.033 in
GALE10D	0.90-1.10 mm / 0.036-0.044 in
GALE12D	1.14-1.27 mm / 0.045-0.051 in
GALE15D	1.50-1.57 mm / 0.060-0.063 in
GALE16D	1.60-1.63 mm / 0.063-0.065 in
GALE18D	1.80 mm / 0.073 in



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B·iRON
FREEDOM UNDER CONTROL

B·iRON

FREEDOM UNDER CONTROL

Welcome to the next generation of the rechargeable soldering iron

With the latest battery improvements and JBC Exclusive Heating System, we have created the new generation of the rechargeable and freestanding soldering iron.



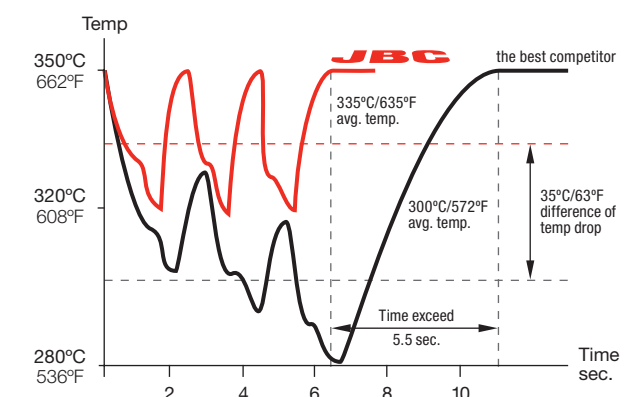
Improve & optimize your soldering quality through your device

From any device with Bluetooth, you can remotely control and configure the tool parameters to adapt them to your needs.

<p>Tool ID</p> <p>JBC#1</p>	<p>Lock Parameters</p> <p>Locked Unlocked</p>	<p>Sleep mode</p> <p>Sleep temperature</p> <p>150°C</p>
<p>Hibernation delay</p> <p>00:30</p>	<p>Maximum Temperature</p> <p>400°C</p>	<p>Tool Status</p> <p>Working Charging</p> <p>Low battery No cartridge</p> <p>Power OFF</p>
<p>Temperature units</p> <p>°C °F</p>		

Most Efficient Soldering System

As all JBC Tools, B·iRON features JBC Exclusive Heating System ensuring an extremely quick temperature recovery reaching 350°C in less than 4 seconds.



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 first tool with all of JBC
Soldering Technology and
Bluetooth connection

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Lightweight & Ergonomic

The tools are designed to perfectly lie
in the operator's hand with minimum
weight, making the soldering
process even more
comfortable.



Cartridge Range

More than 65 different shapes

B210 is fully compatible with C210 Cartridge Range while
B115 and B115T are compatible with C115 Range.





Cleaning System

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



Cartridge Exchanger

Increase efficiency by using the easy and safe Quick Cartridge Exchanger.

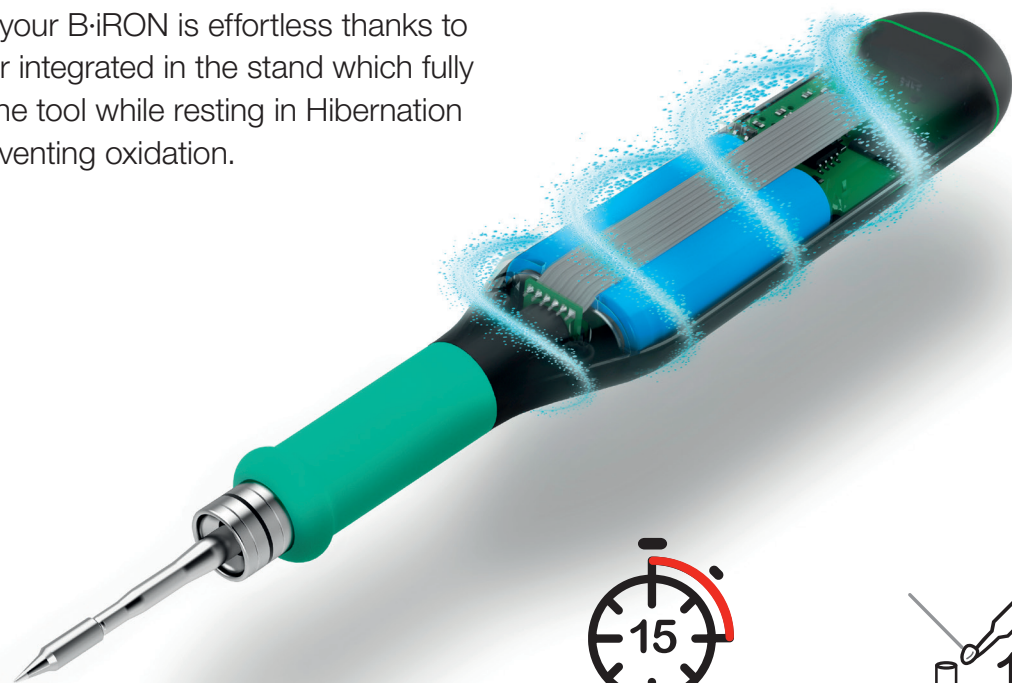


Cartridge & Console Holder

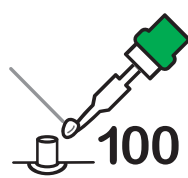
Cartridge Holder to store up to three cartridges, as well as the Console.

Born to be ready

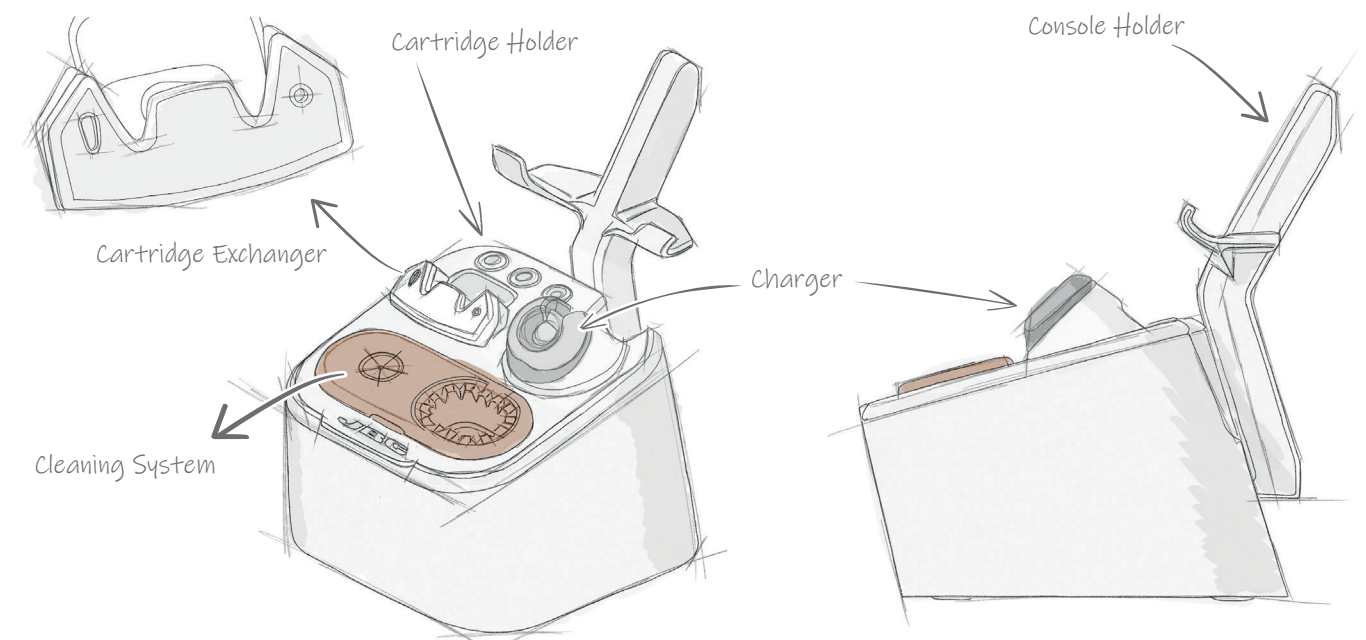
Charging your B-iRON is effortless thanks to its charger integrated in the stand which fully charges the tool while resting in Hibernation Mode preventing oxidation.



Charges 80% in 15 minutes



Up to 100 SMD soldering joints with each full charge





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CDE

The first station with Soldering Assistant

Soldering Assistant provides the data to achieve perfection

The first system that measures the delivered energy during the soldering process

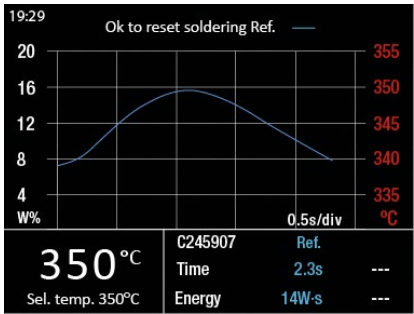
The system compares all new solder joints with the pre-stored soldering reference. This function gives feedback to the operator, showing a percentage to qualify the soldering process.

Furthermore, this system makes this station **perfect to improve the operator's soldering abilities.**

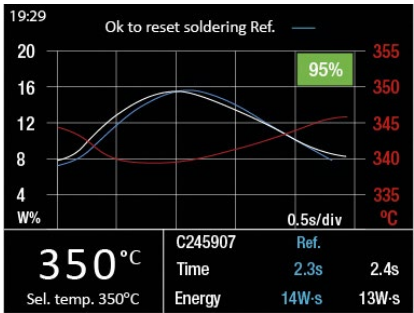


Improve your soldering quality while improving your skills

- 1. Configure**
Set the proper soldering configuration to obtain the best quality soldering.
- 2. Choose the Cartridge**
By selecting the cartridge used, the station sets up the proper internal configuration.
- 3. Perform**
An experienced operator needs to perform and verify the soldering process.

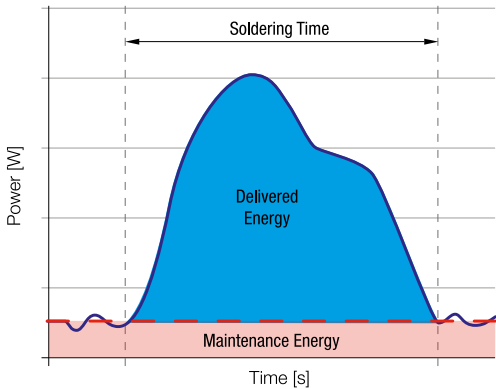


- 4. Practice**
Repeat the soldering joint and the station compares it with the pre-stored joint.



Energy of the Soldering process

The only way to indicate whether **two solder joints are equal or not** is by using the **delivered energy** measurement during the soldering process and the **time needed**.



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

SOLDERING JOINT INFO			
	Last	Ref.	Diff.
Sel. temp.	350°C	350°C	
Cartridge	C245907	C245907	
Time	2.4s	2.3s	-2%
Max temp	350°C	350°C	+0%
Min temp	335°C	340°C	-1%
Energy	13W-s	14W-s	-7%
Result	95%		

Quick Cartridge Exchanger and Holder

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

Intelligent Heat Management

The stations incorporate **Sleep & Hibernation Modes** that automatically lower the tip temperature when the tool is placed in the Tool Holder. Therefore, **JBC tips last 5 times longer than tips of other brands.**

Cable Collector

Tool Holder and Cable Collector are easily adjustable. **Work freely, without troublesome cables.**

Intuitive Menu and Interface

A renewed user menu allows you to easily **set up the station and soldering parameters.**



Tip Cleaning System

CDE Stations feature a tip cleaner with **antisplash membrane** to prevent splashing of solder particles and maintain the work area clean. The most **complete Tip Cleaning System** allows you to choose from three safe methods according to your needs: **metallic wool, sponge or metal brush.**

Communication

Connect your station via USB cable to a PC and get to **control and trace your soldering production.** Peripherals can also be directly connected.

- USB Connection (Software updates, export graphics and monitor and manage station parameters).
- FAE Fume Extractors
- KNE Nitrogen Kit
- Pedal

It also has an easily replaceable Earth Fuse and an Equipotential Connection.

Soldering-Assistant Station Range



CDEB

Soldering-Assistant Station

This station is suitable for general electronics applications with T245 General Purpose Handle, **perfect for both SMD and for jobs with high power requirements.** It works with C245 Cartridges.

A healthy workplace is our priority



FAE2

Fume Extractor for 2 workbenches

FAE is **the most effective solution to avoid exposure to solder fumes.** The extractor activates and operates only when soldering, saving power and extending the life span of the equipment.

FAE2 provides direct connection of up to 4 soldering or rework stations with a total of 8 tools. It can be controlled via JBC Stations, a pedal, a robotic system or a PC. It has 3 predefined levels of aspiration: low, medium and high. It also features a custom mode where the airflow can be set within the minimum (10%) and maximum rates (100%).



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Compact line

Everything you need in a minimum footprint

Compact Stations

Everything you need in a 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 Holder** 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 Holder. As a result, JBC tips last up to 5 times longer than tips of 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.

Quick Cartridge Exchanger and Holder

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

Intuitive Menu and Interface

Fast and easy station configuration. **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

Compact Stations feature a tip cleaner with **antisplash membrane** to prevent splashing of solder particles and maintain the work area clean. The most **complete Tip Cleaning System** allows you to choose from three safe methods according to your needs: **metallic wool, sponge or metal brush**.

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 **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

Precision Desoldering Station

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

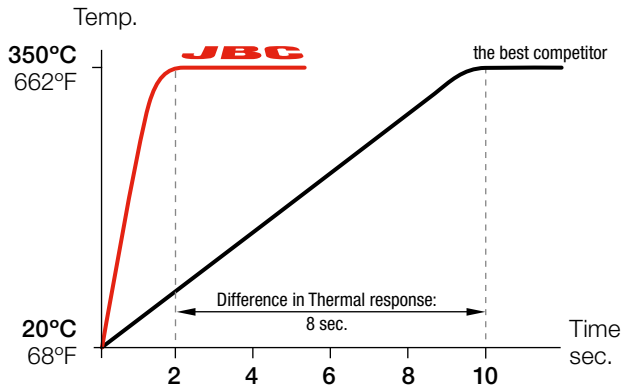
JBC Technology

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.

Heating System Principles

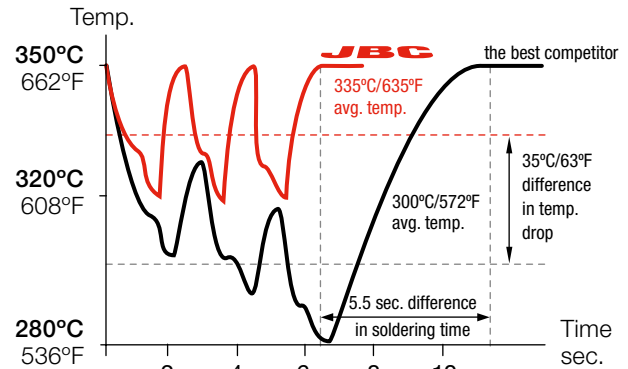
350°C/662°F in 2 seconds



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

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 & 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

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

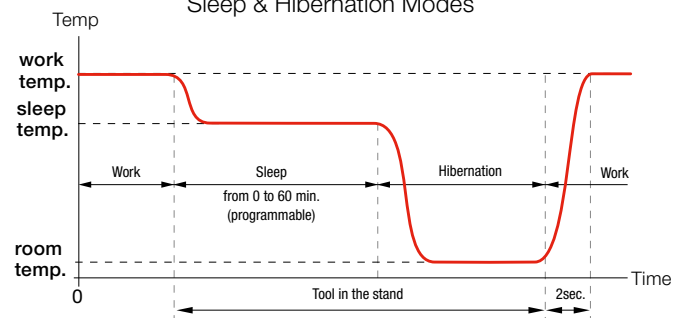
After a configurable period of tool inactivity in the stand, the tool enters Hibernation Mode.

It **cuts off the power supply** making the tip reach room temperature thus **preventing oxidation and saving energy.**

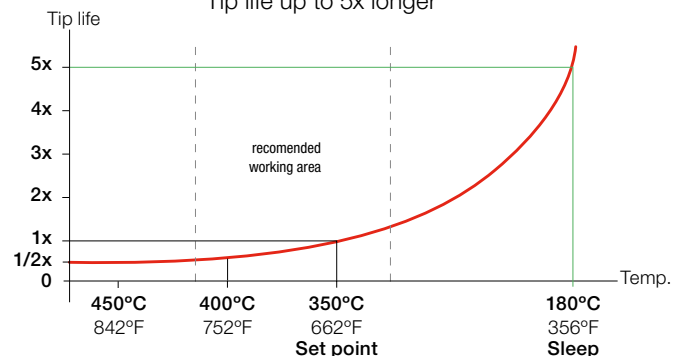
Longer Tip life

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

Sleep & Hibernation Modes



Tip life up to 5x longer





JBC

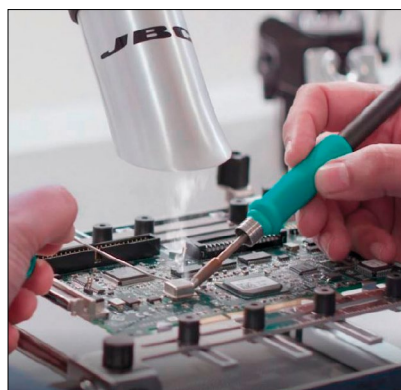
The Soldering Co.

Fume Extractor

A healthy workplace is our priority



Most efficient solution. FAE only operates when soldering and features a unique system integrated into the stand.



Suction in use

Fume Extractor **starts up when the tool is lifted from the stand**. This function saves power and extends filter life.



Suction in the stand

JBC Fume Extractor has an integrated vacuum system that detects **when the tool is returned to the stand and** automatically absorbs excess of fumes.

3 working modes

Station

The valve in the working area opens when the tool is lifted from the stand. Once the tool is returned to the stand and goes to Sleep Mode, the valve in the work area closes and the stand valve opens. After a period of inactivity on both ports, the unit stops.

Pedal

You can activate the vacuum system with the pedal without a connection to a JBC Station.

Continuous Mode

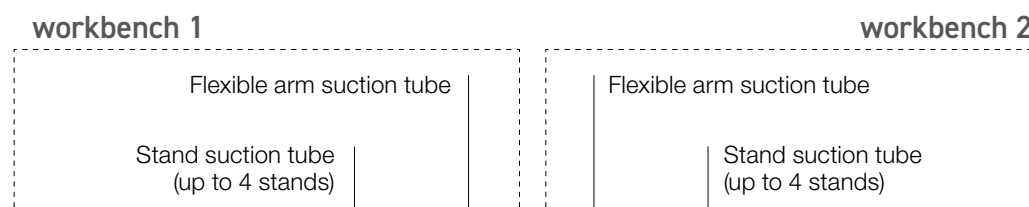
When activated, the four aspiration intakes are opened and Fume Extractor suction is operating.

Intelligent control when connected to JBC Stations

2 separate aspiration inlets can be used simultaneously in two workbenches.

4 levels of aspiration depending on requirements: low, medium, high & customized.

Auto-control of the airflow depending on the number of aspiration tubes in use and filter saturation.



Process Screen

Set up and control the equipment through an intuitive menu.

Filter saturation indicator

Green: Filter OK
Yellow: ≤ 20% Carbon lifetime or about to saturate
Red: End of Carbon lifetime or filter saturated.

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Connections

· RJ12 Premium Station Connections
· USB-B Compact Station Connection

Robust unit fitted with wheels and brakes to move around easily.

For a basic working system

Connect up to four stations through RJ12 connector. Compact Stations can be connected using RJ12-USB-A adapter included.

Stand suction duct

The system detects when the tool is returned to the stand and the vent absorbs the fumes automatically.

FAE060

Fume Inlet Duct for Compact Stations

Connect the stand suction accessory to Compact Stations. Length: 106 mm / 4.17 in.

FAE050

Fume Inlet Duct for Modular Stands

Connect the stand suction accessory to Stands. Length: 106 mm / 4.17 in.

Flexible Arm

The fume extractor automatically regulates the airflow depending on the number of suction tubes in use and the filter saturation.

FAE020

Flexible Arm Ø50 mm

Completely flexible arm to be fitted to your workbench (hole drilling required). Length: 0.94 m / 37 in (compressed).

FAE070

Flexible Arm Ø50 mm + clamp

Includes a clamp to fix it in place.

Accessory for Stand Suction

This robust unit can be used simultaneously in two work areas. You can also connect up to 4 tool stands per port to avoid solder fumes when the tool is not being used.

FAE030

Accessory for Stand Suction

Suction for up to 4 stands (hole drilling required).

FAE040

Accessory for Stand Suction + clamp

Includes a clamp to fix it in place.

FAE010

Flexible Hose Ø50 mm

Flexible extraction hose wich connects Fume Extractor to FAE020 / FAE070 and FAE030 / FAE040. Length: 1.5 m / 59 in (unfolded).

Specifications

Dimensions	560 x 320 x 590 mm / 22.05 x 12.59 x 23.23 in
Weight	33.6 Kg (74.08 lb)
Ref.	FAE2-5B
Voltage (AC)	100 V - 120 V - 230 V 50 / 60 Hz
Nominal Power	500 W (120 - 230 V) 320 W (100V)
Fuse	8 AT
Blower type	Brushless

FAE2 Fume Extractor for 2 workbenches

Max. Flow rate	290 m ³ / h (10241.25 f³ / h)
Max. Vacuum	6.1 KPa / 0.88 psi
Filters	Pre-filter M5 (according to Norm EN 779)* HEPA H13 (according to Norm EN 1822)** Carbon
Work areas	2 or 4
Noise	54 dB

*M5 Quality according to Norm EN779

**Delivered with a test certificate according to Norm EN 1822-4

Specifications

Dimensions	558 x 292 x 562 mm (22 x 11.5 x 22.1 in)
Weight	33.6 Kg (74.08 lb)
Ref. / Voltage (AC)	FAE1-1B / 100 V - 120 V 50 / 60 Hz FAE1-2B / 230 V 50 / 60 Hz
Nominal Power	105 W - 135 W (100 - 120 V) 115 W (230V)
Fuse	8 AT
Blower type	Brushless

FAE1 Fume Extractor for 1 workbench

Max. Flow rate	180 m ³ / h (106 CFM)
Max. Vacuum	3.2 KPa (0.46 psi)
Filters	Pre-filter M5 (according to Norm EN 779)* HEPA H13 (according to Norm EN 1822)** Carbon
Work areas	1 or 2
Noise	55 dB @ 1m

*M5 Quality according to Norm EN779

**Delivered with a test certificate according to Norm EN 1822-4



Why use JBC Fume Extractor ?

Avoid exposure to solder fumes

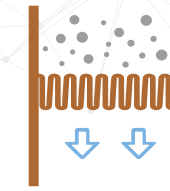
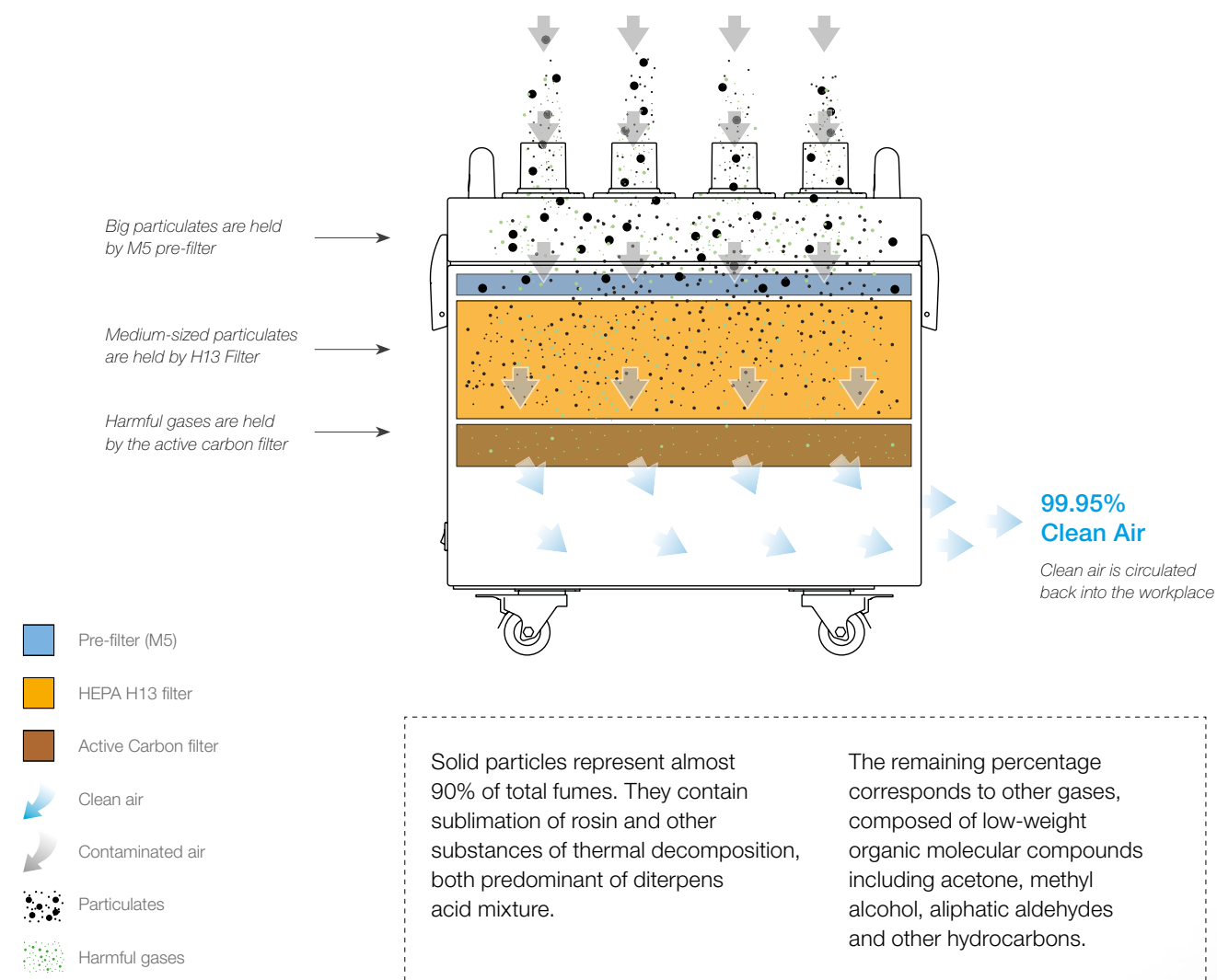
Health risks come with extended exposure to solder fumes, so it is **important to use the correct safety equipment** to remove these hazardous substances.

Depending on the particle size, the fume can affect different parts of the respiratory system.

This is one of the main causes for occupational asthma.

It may cause eye and throat irritation.

The flux may cause dermatological problems.



High-efficiency filters to remove even the smallest particles

The combination of the three-layered filter system reaches a certified filtering efficiency of soldering fumes up to 99.95% in accordance with norm EN 1822-4.

Pre-filter M5

It retains **large solid particles** in order to protect H13 filter and extend its lifetime.

Average efficiency for particles of 0.4 μm : 40-60% (in accordance with EN 779).

HEPA filter H13

HEPA filter (High-Efficiency Particulate Air) **filters out the remaining solid particles**. Efficiency for MPPS * $\geq 99.95\%$ (in accordance with EN 1822).

* MPPS (Most Penetrating Particle Size) corresponds to the particle size at which the filter has a lower efficiency. The MPPS depends on the filter and the air flow, although usually it lies between 0.1-0.3 μm .

Active Carbon filter

The active carbon filter **absorbs those gas molecules** which, due to their size, HEPA filter is not able to filtrate.

Active carbon is a good filter aid because of its highly porous structure. In order to improve efficiency, different factors are taken into account. Generally, the lower the air flow rate, the more times the fumes have to diffuse into a pore and be absorbed.

FAE2110
Pre-Filter for FAE2

FAE2100
Filter for FAE2





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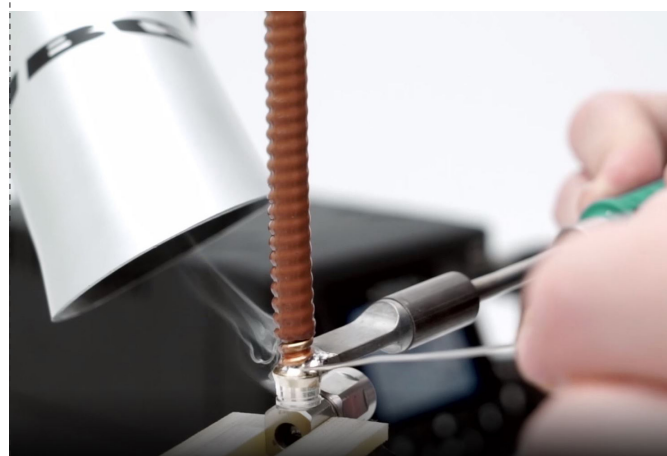
Heavy Duty Station

High power for industrial soldering applications

Heavy Duty Station

Industrial equipment ready to work intensively.

- 250 Watts peak power
- The exclusive solution for **high-thermal demands** and prolonged soldering applications
- Used in production of **solar panels, multi-layered circuits and components of large dissipation surfaces**
- **Full control of soldering processes** and remote work management thanks to JBC Software with direct connection to JBC Fume Extractors



Soldering application using C470012 Cartridge

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.



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



Communication Station-PC
Manage your stations via PC or export graphics by updating its software.

Increase productivity

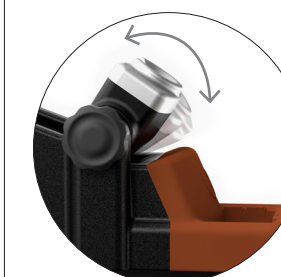
Save time and work on different soldering jobs by using **Quick Cartridge Exchanger**.

Intelligent Heat Management

When the tool is placed in the stand, **Sleep & Hibernation Modes** reduce the temperature and extend tip life up to 5 times.

Suitable position

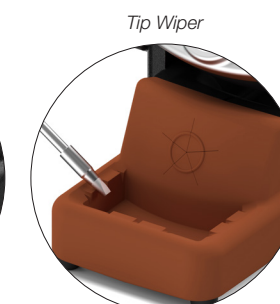
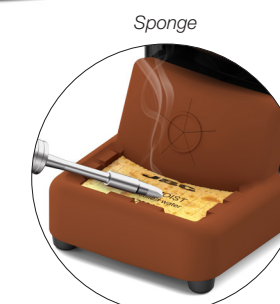
Tool Holder and **Cable Collector** are easily adjustable.



Improve thermal transfer to the tip

The **antisplash membrane** prevents splashing of solder particles and maintains 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.



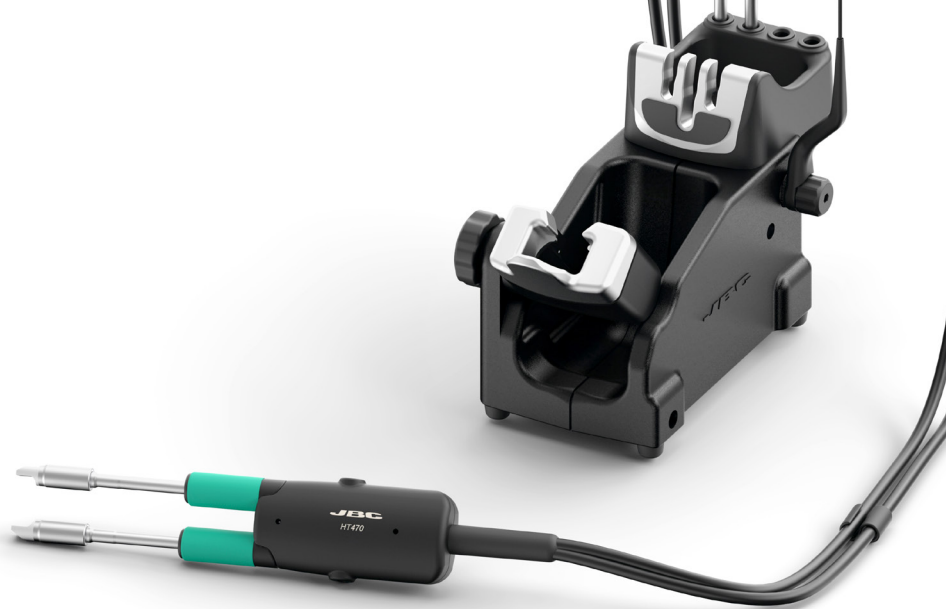
Connectables

HD Thermal Tweezers

Reduce handling time

HT470K Heavy-Duty Tweezer Kit

It requires two **HDE** Heavy-Duty Control Units in order to manage the cartridges individually and optimize their thermal performance.



T470 HD Handles

For intensive soldering applications

For intensive soldering jobs requiring continued high-thermal power. They feature a non-slip grip with a good thermal insulation and a fixing screw to secure the cartridge within the handpiece, preventing its rotation.

T470Z Tri-lobed Grip HD Handle



Tri-lobed shape for better handling



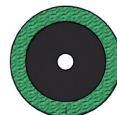
T470 HD Handle

T470S HD Handle with 3m cable



T470F Thermal Insulator Grip HD Handle

T470M Soft Thermal Insulator Grip HD Handle with 3m cable



Foam



T470N Nitrogen HD Handle



Nitrogen feed

JBC GN Nitrogen Generator Module or an external nitrogen feed is needed

Specifications

Control Unit Dimensions	148 x 232 x 120 mm / 5.8 x 9.1 x 4.7 in
Control Unit Weight	4.9 Kg / 10.8 lb
Output Peak Power	250 W
Ref. - Voltage (AC) / Fuse	HDE-9E - 100 V / Input fuse: 4A HDE-1E - 120 V / Input fuse: 4A HDE-2E - 230 V / Input fuse: 2A

Temperature Range	90 - 500 °C / 190 - 932 °F
Idle Temp. Stability (still air)	±1.5 °C (±3 °F) / Meets and exceeds IPC J-STD-001F
Operating Temp. Range	10 - 50 °C / 50 - 122 °F
Connections	USB-A / USB-B / Peripheral connectors
Tip-to-ground voltage and resistance	Meets and exceeds ANSI/ESD S20.20-2014 IPC J-STD-001F





JBC
The Soldering Co.

Hot Air Stations

Highest-quality contactless desoldering

Hot Air Stations

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

JNASE High-Precision Hot Air Station

JNASE reworks SMDs without affecting nearby components and is, therefore, perfect for areas with minimal separation.

Auto-Start and Auto-Stop Function

JNASE has an auto-start function, which means the station is turned on when the tool is lifted from the stand. The auto-stop function, as a safety measure in all hot air stations, guarantees that the heat is automatically cut off when the tool is in the stand. It saves power and lengthens the heater life.

Changing Cartridge

Save time and increase productivity by using NAS Stand, which facilitates fast and safe exchange of the cartridge.

Pick & Place

The station includes a Pick & Place functionality to position and remove components with high precision.

J125030 J125410 J125010

J125 Cartridges are perfect to rework the smallest SMDs from 01005 to SOIC-8 under the magnifying glass.

Specifications

Control unit dimensions	180 x 170 x 110 mm / 7.1 x 6.7 x 4.3 in
Control unit weight	1.35 Kg / 2.96 lb
Ref. - Voltage (AC) / Fuse	JNASE-9A - 100V 50/60Hz / Main fuse: T2A JNASE-1A - 120V 50/60Hz / Main fuse: T2A JNASE-2A - 230V 50/60Hz / Main fuse: T2A
Airflow regulation	0.15 - 2.5 SLPM

Temperature selection	Room Temp. / 150 - 450 °C / 300 - 840 °F
Nominal power	70W
Operating temp. range	10 - 50 °C / 50 - 122 °F
Vacuum	53% / 397 mmHg / 15.6 inHg
Rated current	0.85A

Control Temperature & Airflow

Using the menu, you can personalize over 20 parameters to help manage the soldering or desoldering process. Profile Mode allows you to create and edit a profile to control three different parameters point by point: temperature, time to reach it and airflow percentage. It can store up to 25 different profiles.

TESE Precision Hot Air Station

JTSE Power Hot Air Station

TESE for rework of small and medium SMDs and JTSE for medium and large SMDs.

Thermocouple connection

Connect an external Type K Thermocouple (TC) to set modes:

- **Regulation Mode** provides a high-precise close-loop to automatically maintain the external Thermocouple (TC) temperature.
- **Protection Mode** is used to protect any heat sensitive areas or components. The station cuts the air supply off when the TC temperature is reached.

Adjustable TFT Screen

Auto-Start and Auto-Stop Function

ESHT Extractor Stand

JTT Heater Hose Set

TET Precision Heater Hose Set

Specifications

Control unit dimensions	148 x 184 x 140 mm / 5.83 x 7.24 x 5.51 in
Control unit weight	1.9 Kg / 10.86 lb
Ref. - Voltage (AC) / Fuse	TESE-1B / JTSE-1B - 100-120V 50/60Hz. Input fuse: 8A TESE-2B / JTSE-2B - 230V 50/60Hz. Input fuse: 4A
Airflow regulation	2-17 SLPM (TESE) 5-50 SLPM (JTSE)

Temperature selection	Room Temp. / 150 - 450 °C / 300 - 840 °F
Nominal power	300W (TESE) 700W (JTSE)
Operating temp.range	10 - 50 °C / 50 - 122 °F
Vacuum	30% / 228 mmHg / 9 inHg
Rated current	3A (230 V) / 7A (100-120 V)

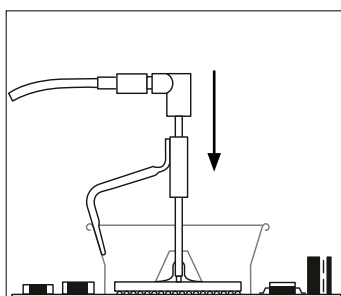
Hot Air Accessories

Quick and safe desoldering

JBC Hot Air Stations use extractors to protect adjacent components.

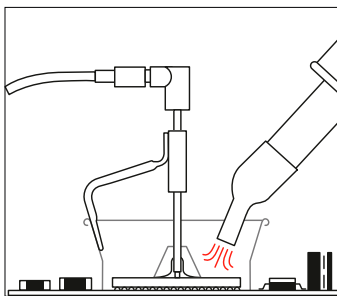
1 Placing

JBC features a wide range of extractors, tripods and protectors so you can choose the most suitable one for the component.



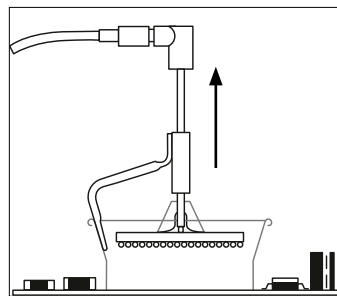
2 Heating

The adjacent components are protected by concentrating heat only on the component you are working on.




3 Releasing

The component lifts off automatically.




Choose the model to suit your desoldering needs

Protectors

	Ref.	A x B mm/in	Ref.	A x B mm/in	Ref.	A x B mm/in
	P3353	4.3 x 3 / 0.17 x 0.12	P2220	10 x 10 / 0.39 x 0.39	P4010	17 x 17 / 0.67
	P3786	5.2 x 5.2 / 0.20 x 0.20	P4045	10.5 x 21 / 0.41 x 0.83	P4005	18 x 29 / 0.71 x 1.14
	P3352	5.2 x 7.5 / 0.20 x 0.29	P4090	11 x 16 / 0.43 x 0.63	P4030	18.5 x 18.5 / 0.73 x 0.73
	P3355	5.2 x 9.5 / 0.20 x 0.37	P2235	12 x 17 / 0.47 x 0.67	P1068	18.5 x 24 / 0.73 x 0.94
	P3356	6.2 x 4.2 / 0.24 x 0.16	P1249	12 x 23 / 0.47 x 0.90	P2685	28.5 x 28.5 / 1.12 x 1.12
	P3785	7.2 x 7.2 / 0.28 x 0.28	P4000	12.5 x 12.5 / 0.49 x 0.49	P4085	31.5 x 31.5 / 1.24 x 1.24
	P3784	8.2 x 8.2 / 0.32 x 0.32	P1593	13 x 31.5 / 0.51 x 1.24	P2672	33 x 46 / 1.30 x 1.81
	P4035	9 x 13 / 0.35 x 0.51	P3354	13.2 x 13.2 / 0.52 x 0.52	P4002	50 x 50 / 1.97 x 1.97
	P4040	9.5 x 19 / 0.37 x 0.75	P4025	13.5 x 21.5 / 0.53 x 0.85	P3357	52.5 x 14 / 2.07 x 0.55
	P4080	9.5 x 21 / 0.37 x 0.83	P2230	15 x 15 / 0.59 x 0.59		

Extractors



	Ref.	Size mm/in
	E2052	20 x 20 / 0.79 x 0.79
	E2064	20 x 26 / 0.79 x 1.02
	E2184	24 x 24 / 0.94 x 0.94
	E2068	27 x 27 / 1.06 x 1.06
	E4020	28.5 x 28.5 / 1.22 x 1.22
	E4015	31.5 x 31.5 / 1.24 x 1.24
	E2084	33 x 33 / 1.3 x 1.3
	E2100	38 x 38 / 1.5 x 1.5
	E2124	45 x 45 / 1.77
	E2190	Ø 7 / 0.27 (manual)

Tripods




Ref.	Size mm/in
T2050	Ø 39 / 1.53
T2250	Ø 85 / 3.35



TN Nozzles

	Ref.	Size mm/in
Bent 	TN9787	Ø 3 / 0.12
	TN9785	Ø 4 / 0.16
	TN9782	Ø 5 / 0.20
	TN8851	Ø 3 / 0.12 (45°)
	TN8905	Ø 4 / 0.16 (45°)
Straight 	TN9561	Ø 5 / 0.20 (45°)
	TN9209	Ø 3 / 0.12
	TN9208	Ø 4 / 0.16
	TN9080	Ø 5 / 0.20

JN Nozzles

	Ref.	Size mm/in
Bent 	JN2015	Ø 4 / 0.16
	JN2012	Ø 6 / 0.24
	JN6633	Ø 8 / 0.31
Straight 	JN2020	Ø 8 / 0.31
	JN8417	Ø 10 / 0.39
Flat 	JN7637	10 x 2 / 0.39 x 0.08
	JN7638	20 x 2 / 0.79 x 0.08
	JN7639	30 x 2 / 1.18 x 0.08



JBC
The Soldering Co.

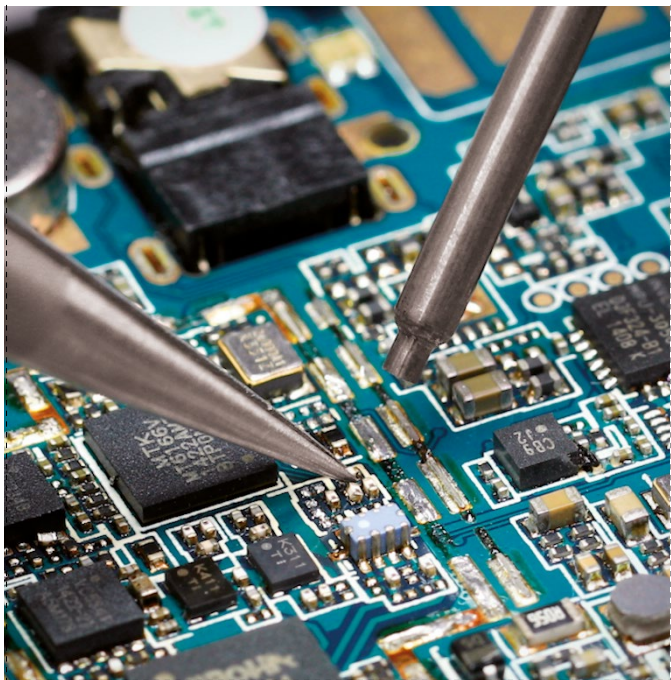


JNASE

High-Precision Hot Air Station

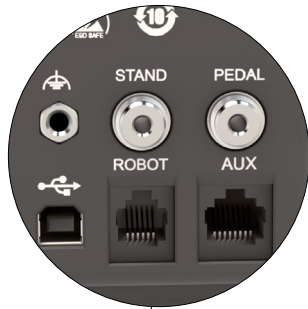
JNASE High-Precision Hot Air Station

- JNASE is the only hot air station to **rework, position and remove SMDs without affecting nearby components.**
- It is perfect for reworking SMDs on **areas with minimal separation.**
- JBC Exclusive System enables the **regulation of temperature and air flow at very low levels**, in order to avoid the movement of adjoining components.



Intuitive menu

JNASE Station has an intuitive menu that allows **setting up the station parameters easily.**



Pedal

By means of P405 Pedal connection, Heater Hose Set for hot air function and T260 Pick & Place Tool for suction function may be activated and deactivated.

Auto-Start and Auto-Stop Function

The tool is turned on when lifted from the stand, and the auto-stop function, as a safety measure, guarantees that the heat is automatically cut off when the tool is in the stand. **It is safer and more efficient.**

Changing Cartridge

Save time and increase productivity by using NAS Stand, which facilitates **fast and safe use of the cartridge.**

Cartridge

J125 Cartridges are perfect to rework the smallest SMDs from 01005 to SOIC-8 under the magnifying glass.



Pick & Place

The station includes a Pick & Place functionality to position and remove components with **high precision.**



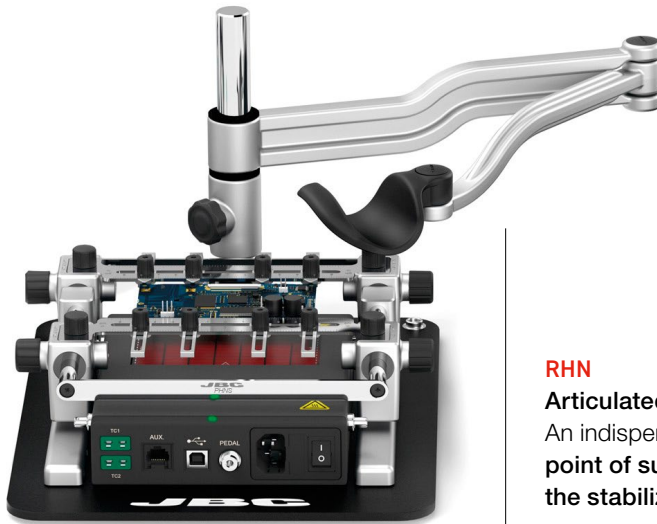
Specifications

Dimensions	180 x 170 x 110 mm / 7.1 x 6.7 x 4.3 in	Operating temp. range	10 - 50 °C / 50 - 122 °F
Weight	1.35 Kg / 2.96 lb	Cool mode	Temp. off. Used to blow air at room temperature
Ref. - Voltage (AC)	JNASE-9A - 100 V 50/60 Hz. Main fuse: T2A. Rated current 0.85A JNASE-1A - 120 V 50/60 Hz. Main fuse: T2A. Rated current 0.85A JNASE-2A - 230 V 50/60 Hz. Main fuse: T2A. Rated current 0.85A	Connectors	USB-A / USB-B RJ12 for RS232 Pedal / Stand
Nominal power	70 W	Air flow regulation	0.15 - 2.5 SLPM
Temperature selection	Room temp. / 150 - 450 °C / 300 - 840 °F	Vacuum	53% / 397 mmHg / 15.6 inHg

Preheater

The use of JBC Preheaters **is indispensable for rework on multi-layered PCBAs** and/or large ground planes **in order to avoid thermal shock** and facilitate soldering as well as desoldering processes.

For an optimal result, it is necessary to preheat the PCB and its components with controlled temperature profiles within the recommended limit values for each application. JBC Preheaters feature temperature profiles specially designed for this purpose and customizable according to need.



RHN

Articulated Hand Rest with base for PHNEK Preheater Set

An indispensable tool for precision work which **provides a point of support very close to the working zone, allowing the stabilization of the pulse rate.**

PHNEK

Preheater Set

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.

JBC Preheater can be operated easily and conveniently via the intuitive menu navigation and has **matchless reliability in temperature accuracy and control of the PCBA so that no component is damaged.**

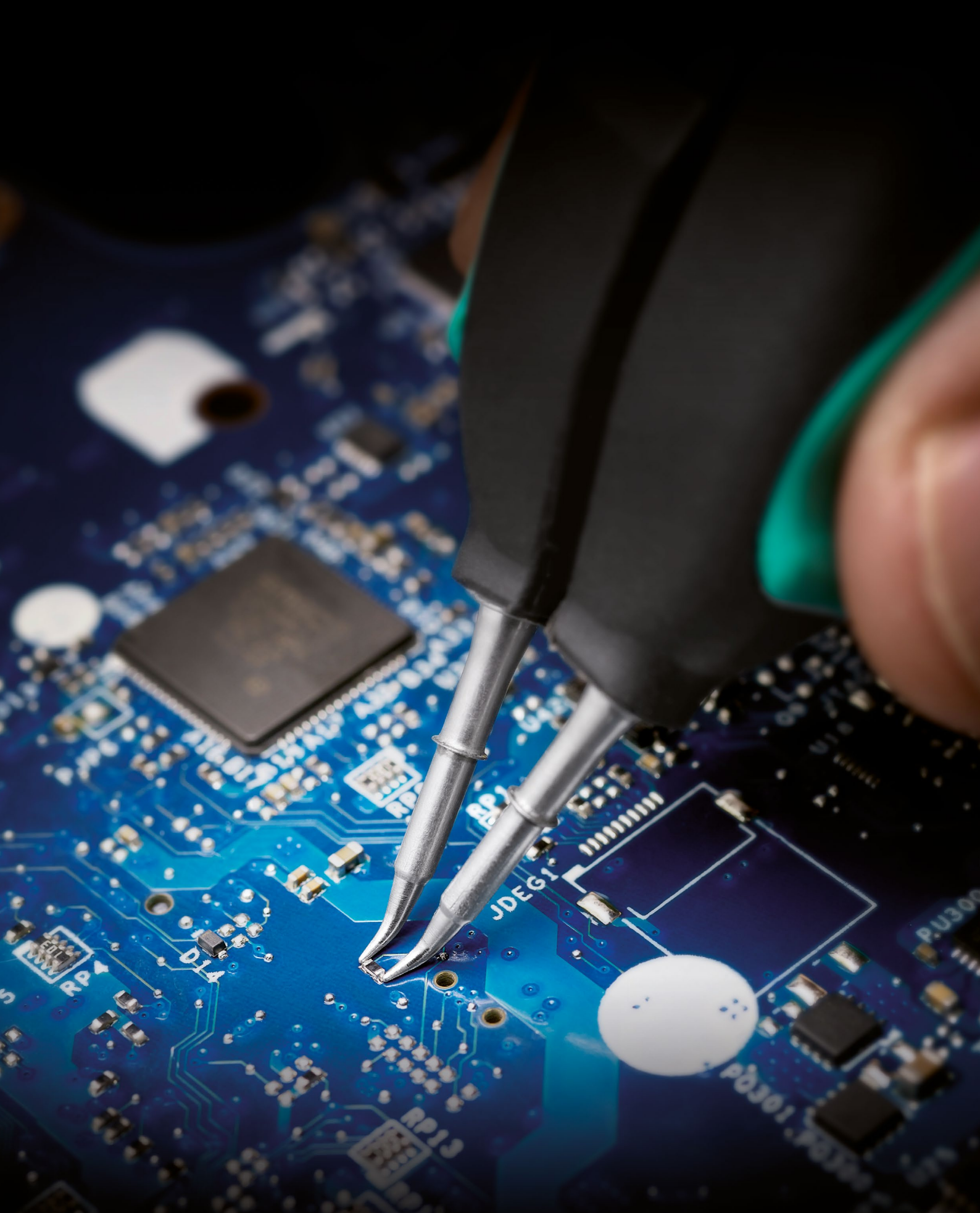
It features three work modes: **Power Mode** (working at a fixed power level), **Temperature Mode** (keeps PCBA at a selected temperature) and **Profile Mode** (allows control of the heating rate of the PCBA).

Specifications

Dimensions (preheater unit)	179 x 165 x 41.5 mm / 7.04 x 6.5 x 1.63 in
Weight (preheater unit)	1.2 Kg / 2.6 lb
Ref. - Voltage (AC)	PHNE-9KA - 100 V 50/60 Hz. Fuse: 4A. PHNE-1KA - 120 V 50/60 Hz. Fuse: 4A. PHNE-2KA - 230 V 50/60 Hz. Fuse: 2A.
Maximum power	300 W
Temperature range	50 - 250 °C / 120 - 482 °F

Operating temp. range	10 - 50 °C / 50 - 122 °F
Temperature measurement	Thermocouple type K
JBC Set Temperature Profiles	3 profiles (2,3 or 4 steps)
User profiles	20 (up to 6 steps for each)
Maximum work time	600 min or indefinite





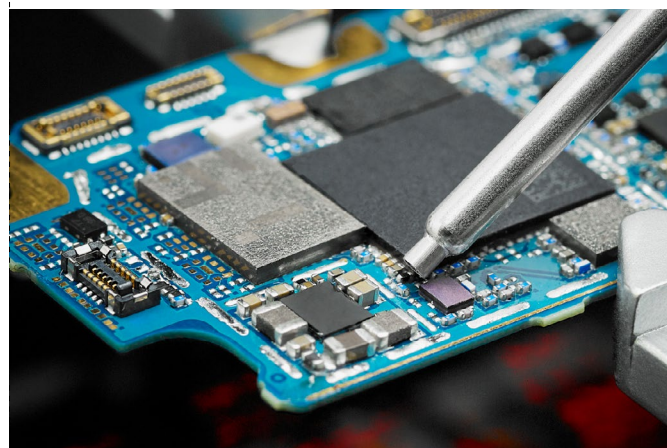
High-Precision Rework Shop

A complete tooling range

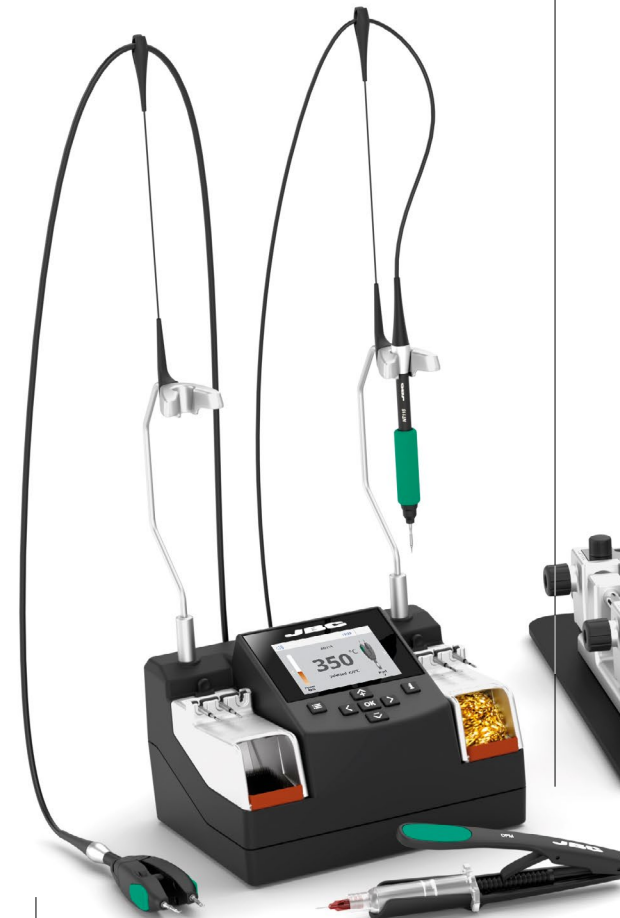
Complete tooling range for high precision

The miniaturization is the trend in the electronic market and components are becoming smaller and smaller.

- High-Precision Rework Shop for **reworking small SMDs** - 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**.
- All of the innovations of High-Precision Rework Shop feature JBC Intelligent Heat Management, with Sleep & Hibernation Modes.



DPM
Manual Paste Dispenser
 Ergonomic Solder Paste Dispenser ideal for SMT rework. DPM is compatible with a **large variety of needles and tips** for the highest dispensing precision.



NASE
2-Tool Rework Station
 The best solution for **soldering and rework of SMT requiring the highest precision**. It works simultaneously with **NT115 Nano Handle** and **AN115 Adjustable Nano Tweezers**. The short distance from the tip to the handle offers maximum control even when using a magnifying glass.

RHN
Articulated Hand Rest with base for PHNEK Preheater Set
 An indispensable tool for precision work which provides a point of support very close to the working zone, **allowing the stabilization of the pulse rate**.



PHNEK
Preheater Set
 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.
 PHNE Preheater can be operated easily and conveniently via the intuitive menu navigation and has **matchless reliability in temperature accuracy and control of the PCBA** so that no component is damaged.

B.IRON 115 / 115T
High-Precision Battery System
 With the latest battery improvements and **JBC Most Efficient Soldering System**, B-Iron becomes the new generation of stations.

It can perform up to 100 SMD soldering joints per charge thanks to **JBC Intelligent Heat Management**.



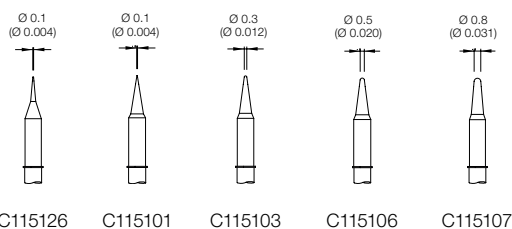
JNASE
High-Precision Hot Air Station
 JBC JNASE is the only hot air station to **rework, position and remove SMDs without affecting nearby components**, thus being perfect for areas with minimal separation.

JBC's Exclusive System enables the **regulation of temperatures and air at very low levels** to avoid the movement of adjoining components.

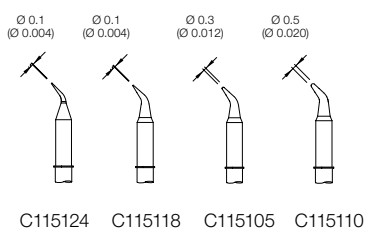
Cartridges for Nano Tools

C115 Cartridge Range

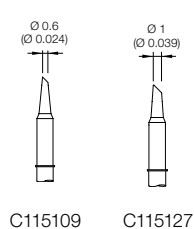
CONICAL



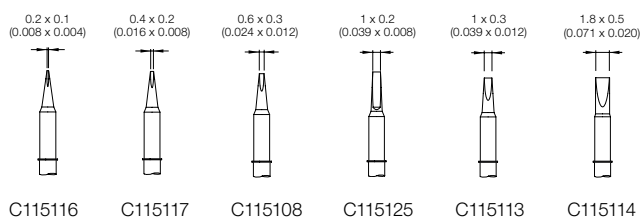
CONICAL BENT



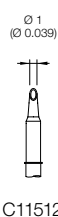
BEVEL



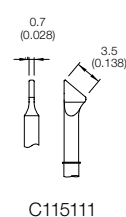
CHISEL



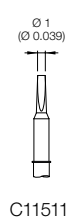
SPOON



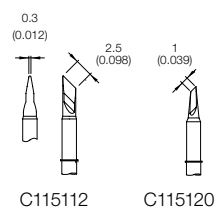
BLADE



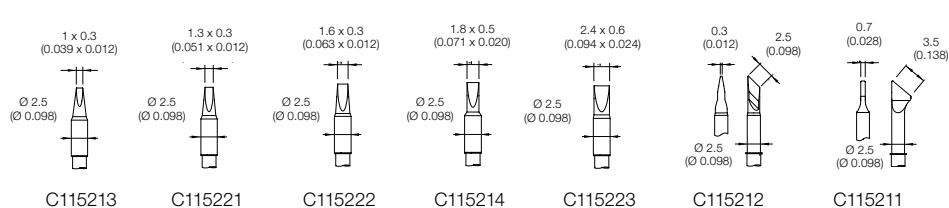
CONFORMAL COATING REMOVAL



KNIFE

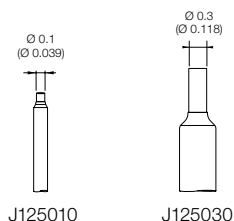


HIGH-THERMAL PERFORMANCE

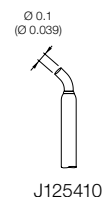


J125 Cartridge Range

STRAIGHT



BENT



mm
(in)

DPM Needles & Tips



NDKS

Steel Dispenser Needle Set

Set consisting of several solder paste dispensing needles with different gauges, from 18 to gauge 30, recommended for solder paste Type 2, 3, 4, 5 and 6.



NDKP

Tapered Dispenser Tip Set

Set consisting of several tapered dispenser tips with different gauges recommended for solder paste Type 2, 3, 4 and 5.



JBC
The Soldering Co.

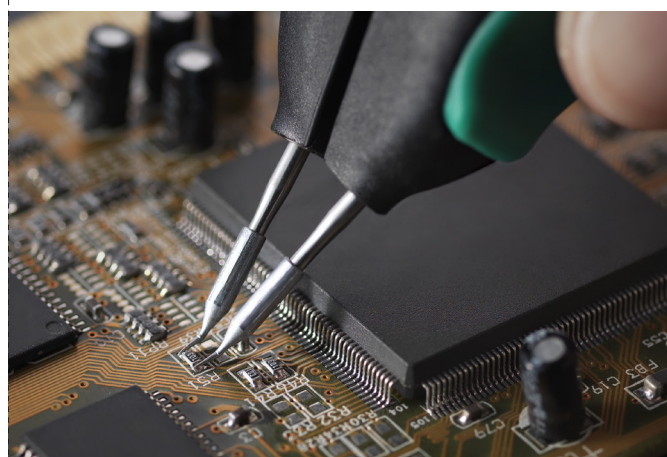


Nano Stations

When the highest precision is your priority

For applications requiring the **highest precision**

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



The most exceptional technology

- JBC has become the **best choice for electronics professionals**.
- Nano Stations work with JBC Most Efficient Soldering System, which **improves the soldering quality**.

TFT screen

The menu is **intuitive and easy to use** thanks to the improved interface usability. It allows you to personalize over 20 parameters to help manage the soldering process. Set temperature limits, check usage counters, lock the station parameters with a PIN or program **Hibernation Mode**. The working screen shows the **selected tool** with its corresponding port, the **working temperature** of the tip and the **power** indicator at a glance.

Cleaning & exchanger set (x2)

It consists of a **Tip Cleaning Stand** and a **Quick Cartridge Exchanger** which can be used single-handedly. Each set can accommodate a different cleaning system and allows you to organize cartridges according to the job. This means you **save time** and **increase productivity**. The cleaning & exchanger sets are **replaceable** and can be easily emptied.



Intelligent Heat Management

When the tool is placed back in the stand, **Hibernation Mode** is automatically activated. The power is cut off and the tip cools down to room temperature, **increasing tip life by more than 5 times**.

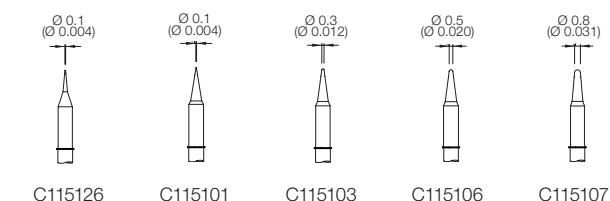


High-precision tools

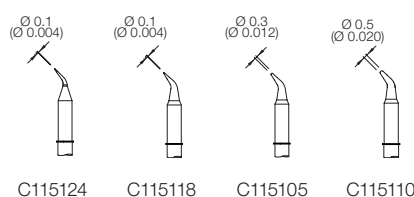
NT115 Nano Handle and **AN115 Adjustable Nano Tweezers** are light and ergonomic. The short-distance tip-to-grip ensures greater precision.

C115 Cartridges for Nano Tools

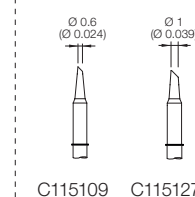
CONICAL



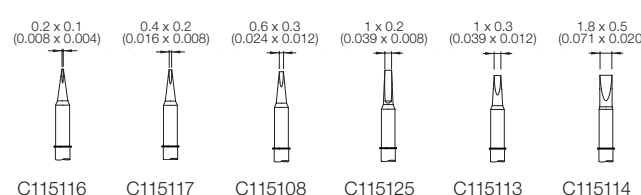
CONICAL BENT



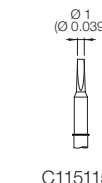
BEVEL



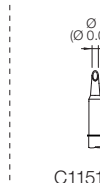
CHISEL



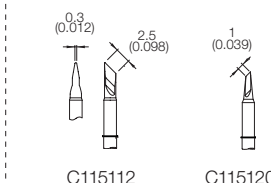
CONFORMAL COATING REMOVAL



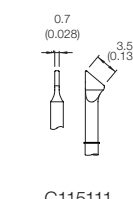
SPOON



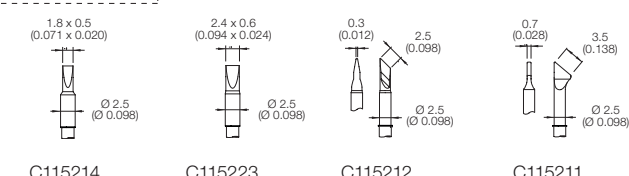
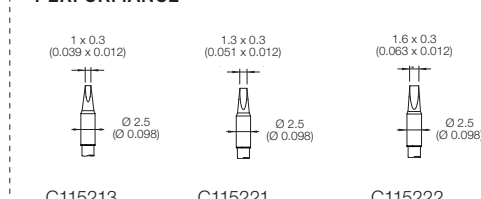
KNIFE



BLADE



HIGH THERMAL PERFORMANCE



mm (in)

Station Communication

Nano Stations incorporate different connectors on the back to share data with other devices. **Increase your working possibilities.**

USB-A Port

By using a USB flash drive, you can update the latest software (available on www.jbctools.com), extract graphs.

USB-B Port

The user can monitor and manage parameters of several stations from one PC (e.g. graphs of the work process). It is necessary to download JBC Software (available on www.jbctools.com) and install it onto the PC.

ROBOT Connector

Remotely control the station using an RS-232 connection with JBC Robot protocol. You can also use this port to connect the station with a JBC Smart Fume Extractor in order to automatically activate extraction when the tools are in use.

P405 or P005 Pedal

Make the tool enter Hibernation Mode by pushing down the pedal. This way you cause no thermal stress when placing the component onto PCB with the Nano Tweezers.



Specifications

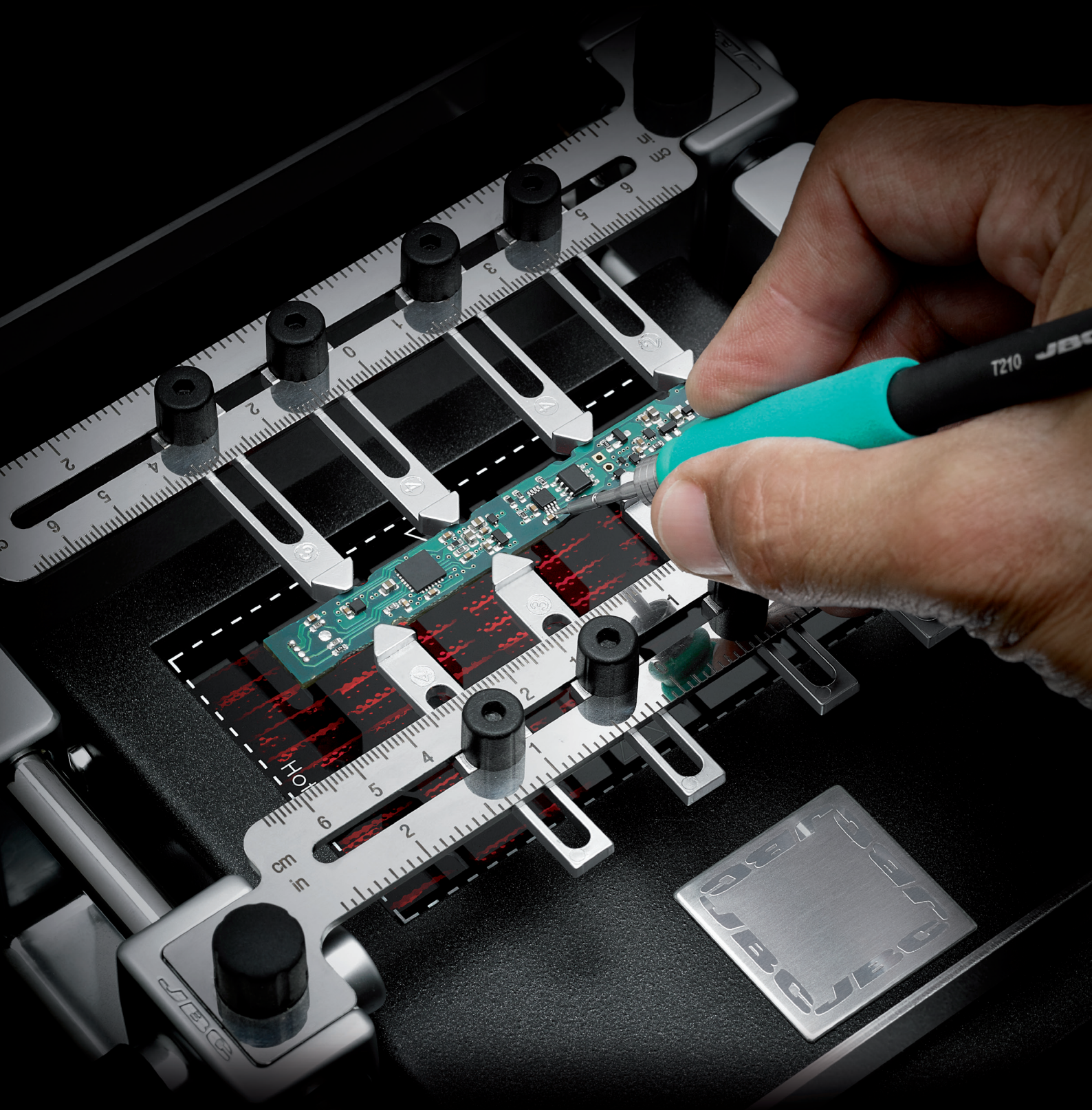
Dimensions	170 x 90 x 135 mm / 6.69 x 3.54 x 5.31 in
Weight	2.5 Kg / 5.4 lb
Ref. - Voltage (AC)	NASE-9C / NANE-9C - 100V 50/60Hz
	NASE-1C / NANE-1C - 120V 50/60Hz
	NASE-2C / NANE-2C - 230V 50/60Hz
Output peak power	14 W per tool
Operating room temp.	10 - 50 °C / 50 - 122 °F

Temperature range	90 - 450 °C / 190 - 840 °F
Idle Temp. Stability (still air)	± 1.5 °C (± 3 °F) / Meets and exceeds IPC J-STD-001F
Tip-to-ground voltage / resistance	Meets and exceeds ANSI / ESD S20.20-2014 IPC J-STD-001F
Connections	USB-A / USB-B / Pedal / RJ12 for Robots



JBC

The Soldering Co.



PCB Preheaters

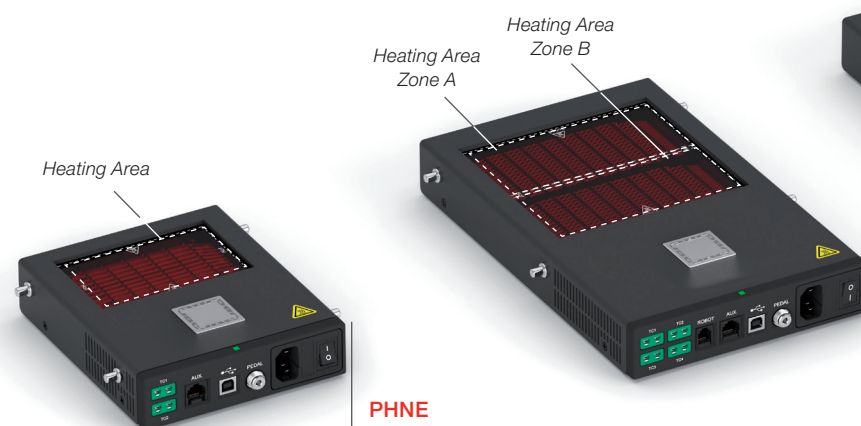
Reduce the risk of thermal shock while reworking

PCB Preheaters

Matchless reliability in
temperature accuracy
and control of the PCBA

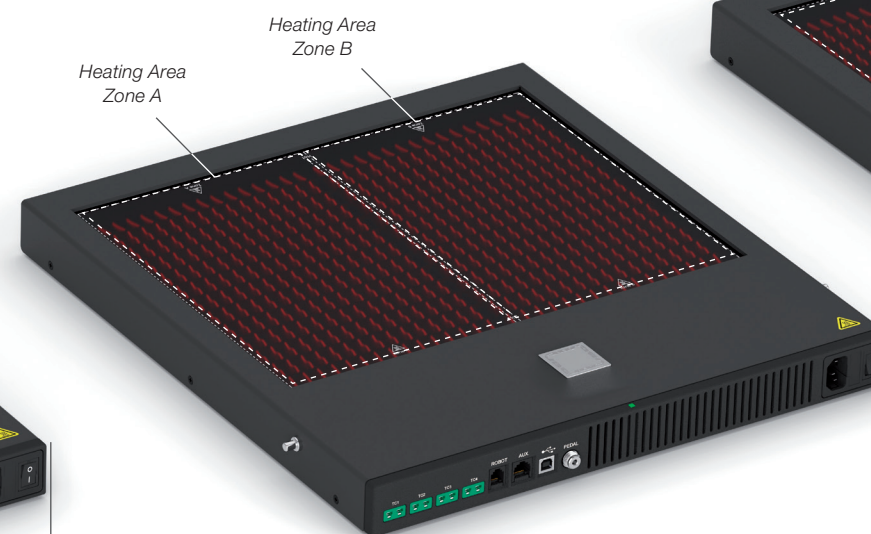
3 Work Modes
safer and easier with
up to 8 thermocouples

Independent
work zones to be
turned on/off



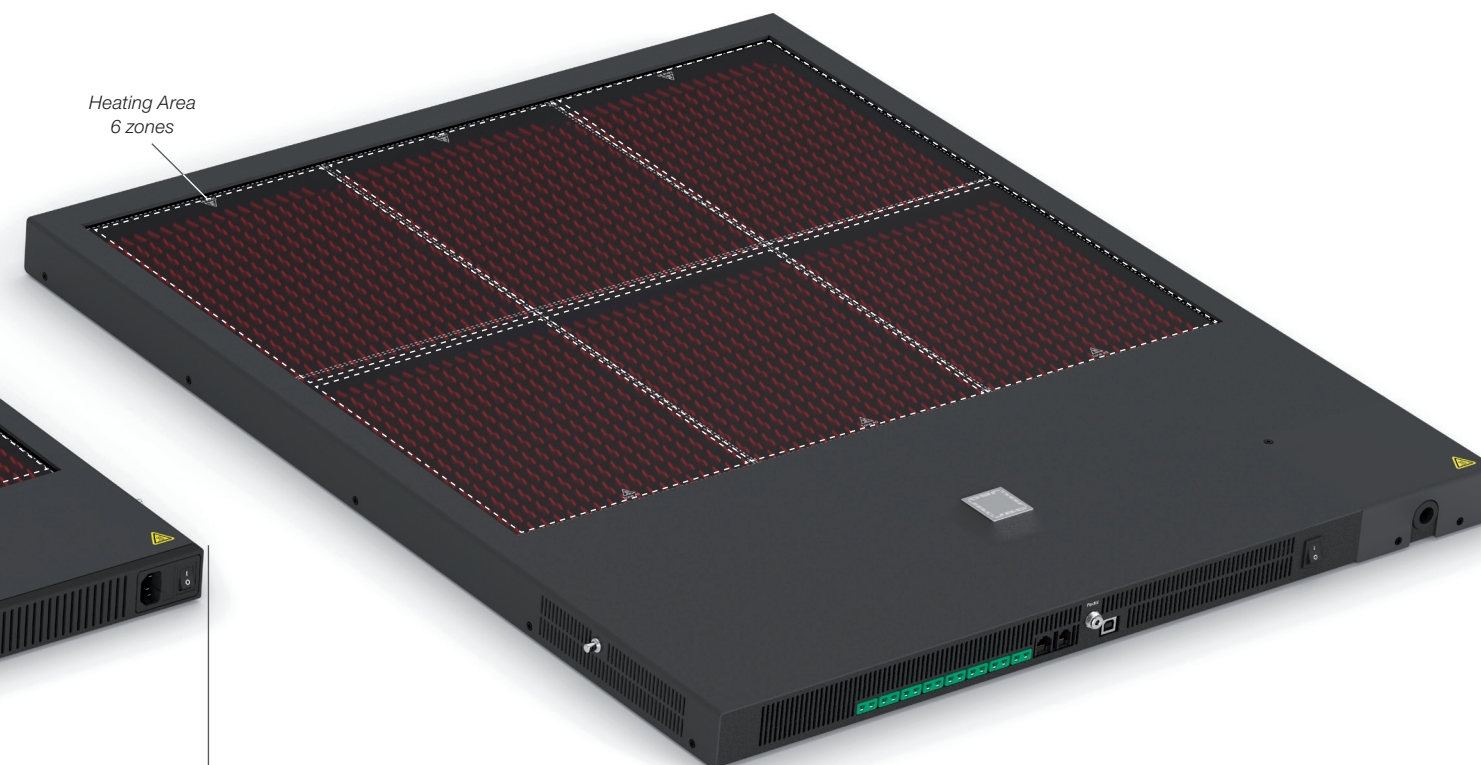
PHNE
Preheater for PCBs
up to 11 x 7 cm / 4 x 3"

Max. Heating area: 108 x 70 mm
4.25 x 2.75 in
Maximum power: 300 W
Thermocouples: x2
Dimensions: 179 x 165 x 41.5 mm
7.04 x 6.5 x 1.63 in
Weight: 1.2 kg
2.6 lb



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

Max. Heating area: 130 x 135 mm
(Zone A+B) 5.12 x 5.31 in
Maximum power: 600 W
Thermocouples: x4
Dimensions: 195 x 288 x 41.5 mm
7.68 x 11.34 x 1.63 in
Weight: 1.74 kg
3.84 lb



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

Max. Heating area: 360 x 277 mm
(Zone A+B) 14.2 x 10.9 in
Maximum power: 1400 / 1800 W
Thermocouples: x4
Dimensions: 426 x 444 x 41 mm
16.80 x 17.5 x 1.6 in
Weight: 6.9 kg
15.4 lb

PHXLE
Preheater for PCBs
up to 51 x 61 cm / 20 x 24"

Max. Heating area: 510 x 610 mm
(6 zones) 20 x 24 in
Maximum power: 5400 W
Thermocouples: x8
Dimensions: 790 x 664 x 42 mm
31.1 x 26.1 x 1.65 in
Weight: 18 kg
39.7 lb

Preheater Set

Complete system for preheating multilayer PCBs, ideal for repetitive soldering jobs. It includes **Preheater, Console, PCB Support, PH218 Thermocouple Type K** and **PH217 Kapton Tape**.

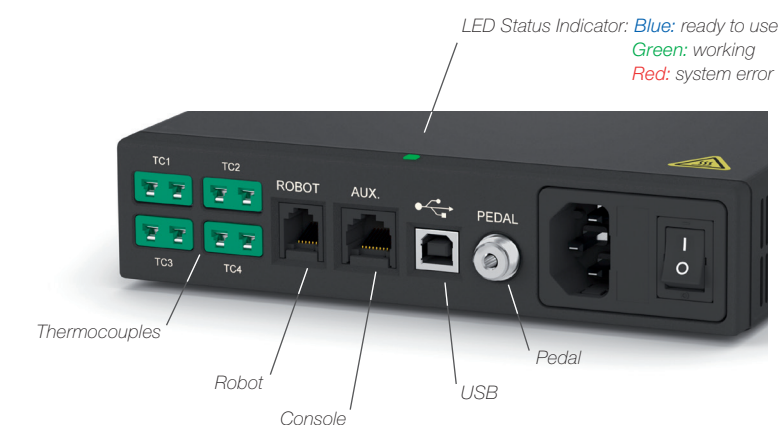


PHXLEK Preheater Set also includes **three metallic supports of different heights** for preventing PCB bending due to large dimensions.



Connections

By means of **JBC Software** (available on www.jbctools.com), JBC Preheater can be synchronized with other JBC Hot Air and/or Soldering Stations as well as JBC Fume Extractor equipment in order for them to work jointly and to perform your rework process optimally.



Console



Easy monitoring of the process using the thermocouple (type K).

JBC offers **3 preset temperature profiles** and **25 additional user-defined profiles** to suit all your needs.

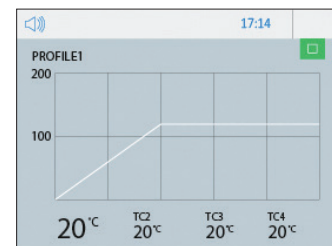
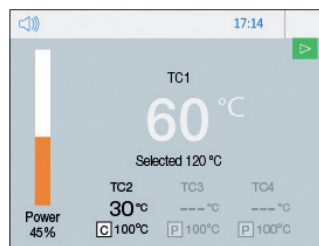
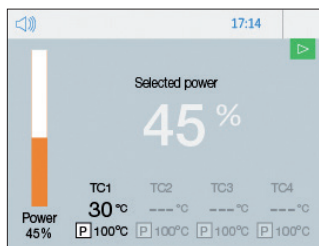
The control thermocouple is used to follow the temperature profile precisely while auxiliary thermocouples can be used to protect the components.

Safer and more efficient rework

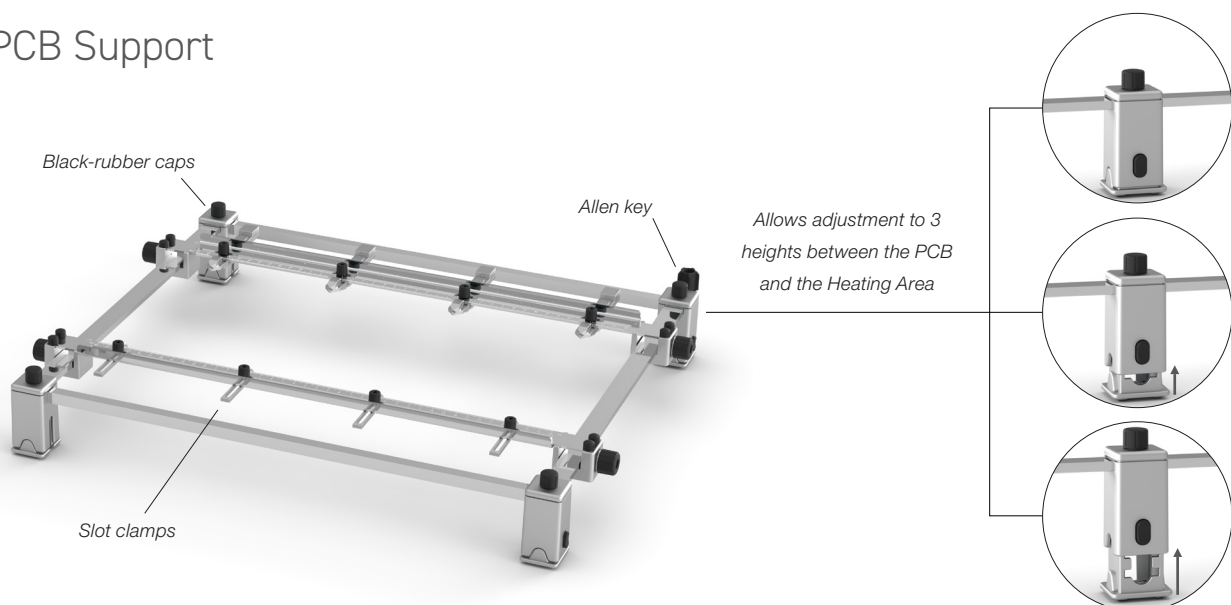
1 Power Mode allows working at a fixed power level with the option of using a protection thermocouple.

2 Temperature Mode keeps the PCBA at a selected temperature, using the regulation or protection TC.

3 Profile Mode allows control of the heating rate of the PCBA by the use of a control and a protection thermocouple.



PCB Support



The support allows you to properly position PCBs of the same batch so as to always heat the same area. It is ideal for repetitive soldering jobs, which means saving time and optimizing workflow.

PCB Support references: **PHNS**, **PHSS**, **PHBS** and **PHXLS**.

ESD safe







www.jbctools.com



0028255/1022

JBC

The Soldering Co.



Smart Desktop Robot

Best solution for automation processes with
no programming knowledge

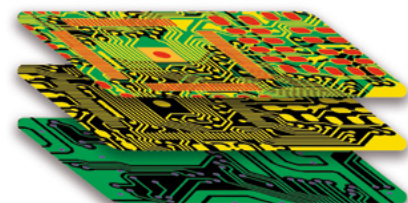
SDR Smart Desktop Robot

This turnkey solution can be easily implemented into a current soldering production line

A **complete system** with everything necessary for **optimal and quality soldering for automated processes** that require an increase in production.

How does it work?

SDR **features an artificial vision**, which works with gerber files and **detects the PCB position and pads with great accuracy.**



Gerber files

Features



Artificial vision detects the PCB position and pads of gerber files.



Easy to use, thanks to the touch screen and the intuitive software provided.



JBC technology allows anyone to operate it without prior training.



Hand-held motion detector sensor for added security.

SFR

Solder Feeder for Robot

Automatic solder wire feeding according to customized speed and length, featuring a wire detector sensor.



GSFR

Guide Kit

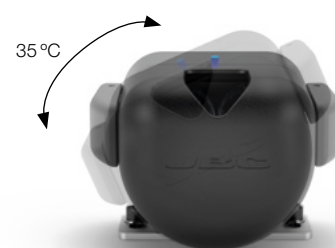
Available with or without solder wire perforation and different solder wire diameters.



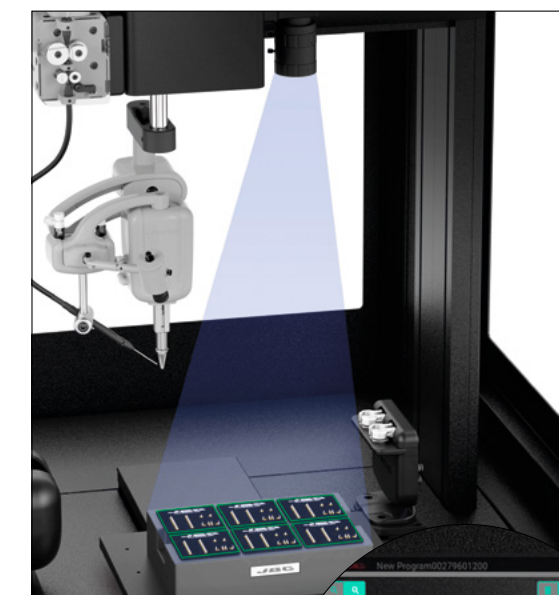
CLMRP

Tip Cleaner with Fiber Brushes

Non-metal Brush Tip Cleaner with a large capacity tank with easy extraction and adjustable position.



PCB position detection allows the robot to auto-recalibrate and the soldering position without editing the program.



6 PCBs detected

TRA

Automatic Soldering Tool

Actuates by compressed air allowing fast and automatic cartridge exchange.



CSR

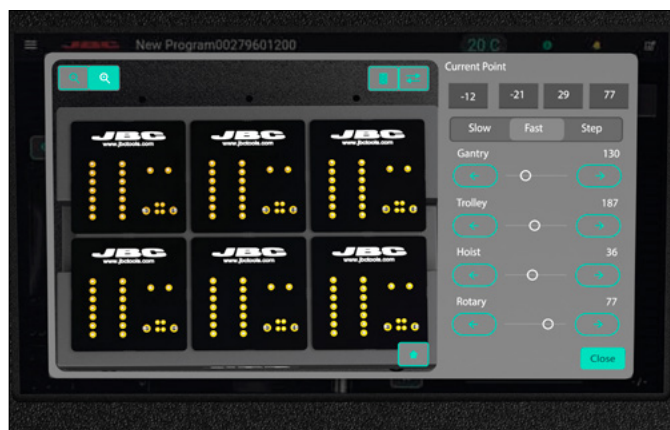
Automatic Cartridge Exchanger

Works with compressed air to automatically fix and release the cartridges.



Robot screen

- Interactive user-friendly interface
- Data transfer function between robots
- PDB detection and robot autocalibrating
- Configuration of soldering point parameters:
Tip temperature, solder amount, soldering time, etc.
- Information shown on the screen:
 - Product processing status
 - Camera detail
 - Tip temperature in realtime
 - X,Y,Z,R-axis positioning
 - Configuration of I/O ports
 - Configuration of system parameters:
Home position, safety high, cleaning, speed
 - Button functions:
 - Play, pause, configure and restart.



Robot screen

Cartridge Range

More than 46 different tip shapes. Desktop
Robot is fully compatible with **R245** and
R470 Cartridge Range.



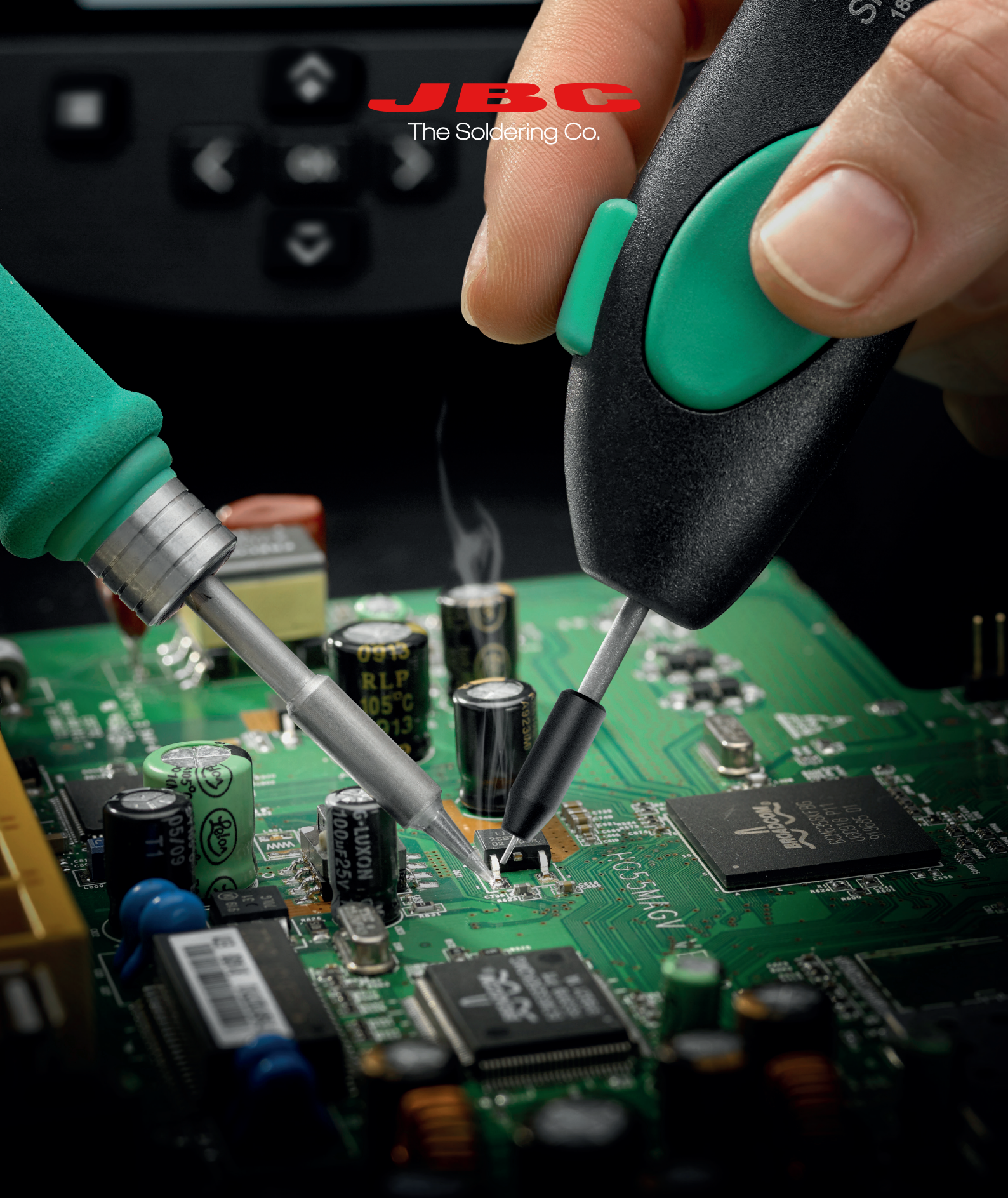
Specifications

SDR		
Ref.		SDR-5A
Number of axes		4 axes
Travel range	X, Y axes	400 mm
	Z axis	95 mm
	R axis	±360°
Operation speed	X, Y axes	500 mm/s
	Z axis	500 mm/s
	R axis	200 mm/s
Repetitive XYZ axis positioning accuracy		±0.05 mm / ±0.002 in
Transportable weight	X, Y axis	10 Kg
	Z axis	3 Kg
Power supply		AC 100V - 240V 50/60 Hz
External dimensions	W	780 mm / 30.7 in
	D	1100 mm / 43.3 in
	H	2020 mm / 79.5 in
Weight		150 Kg

	UCR245	UCR470
Ref.	UCR245-5A	UCR470-5A
Tool	TR245-B	TR470-B
Cartridge range	R245	R470
Output peak power	160 W	250 W
Tip-to-ground resistance	<2 Ω	<2 Ω
Selectable temperature	90 to 450 °C	90 to 500 °C
Solder feeder	SFR-B	
Solder wire diameter	0.5 to 1.5 mm / 0.02 to 0.06 in	
Solder wire feeding length	0.5 to 250 mm / 0.02 to 9.84 in	
Solder wire feeding speed	0.5 to 120 mm/s	
Cleaning system	CLMR-PA	



JBC
The Soldering Co.



Automatic Solder-Wire Feeder

Feed solder wire automatically from any position

SF Automatic Solder-Wire Feeder

This Solder-Wire Feeder allows you to feed solder wire automatically from any position.

Dispense an **exact length of wire**

Avoid splashing when soldering thanks to solder-wire perforation

Monitor the solder consumption thanks to integrated counters

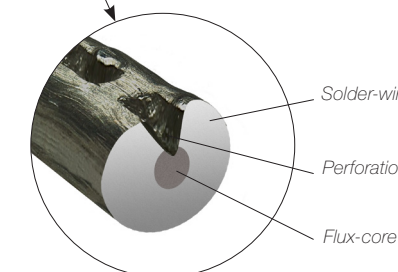
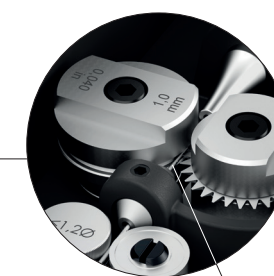
3 working modes

In **Continuous Mode** solder wire is fed while the button keeps pushed.
Discontinuous Mode allows the configuration of the speed and the solder wire amount that will be fed on each click.

Program Mode enables the operator to configure 3 consecutive feeding steps, obtaining a more dynamic and efficient soldering. Up to 5 programs can be set.

Solder-wire perforation

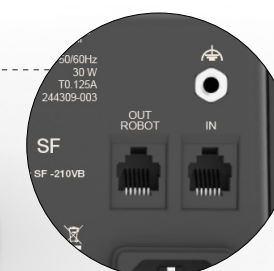
The solder-wire feeder features a small blade that perforates the solder wire down to the flux core while feeding it. This perforation process allows **better flux flow and outgassing** and avoids solder and flux splashing when soldering.



Communication

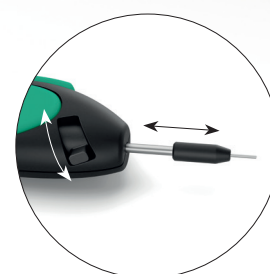
Connect your station via USB cable to a PC and get to control and trace your soldering production. Peripherals can also be directly connected.

- USB connection (software updates, export graphics and monitor and manage station parameters)
- Pedal
- RJ12 robot connector
Equipped with an easily replaceable earth fuse.



Automatic Solder-Wire Handle

SF280 Automatic Solder-Wire Handle allows you to **feed solder wire automatically from any position**. It is compatible with different guide kits for solder wires from Ø 0.38 up to 1.8 mm.



Quick adjust feature to adapt the guide tube length to your needs

Specifications

Dimensions	140 x 150 x 120 mm / 5.51 x 5.91 x 4.72 in
Weight	2.32 Kg / 5.11 lb
Compatible Solder Reel	up to 1 Kg / 2.2 lb
Solder diameter	Ø 1 mm (0.04 in)
Ref. - Voltage (AC) / Fuse	SF-110VB - 100-120 V / 0.2A SF-210VB - 230 V / 0.1A

Max. Wire length	250 mm / 9.84 in
Max. Forward speed	120 mm/s / 4.72 in/s
Max. Reverse speed	120 mm/s / 4.72 in/s
Ambient operating temp.	10 - 40 °C / 50 - 104 °F
Communication connectors	USB-B, Peripherals
Robot connector	RJ12 for RS-232 connection

Guide Kits

You can change the guide kit depending on the solder wire used.

References **without** solder-wire perforation

Ref.	Solder wire Ø
GSF04D	0.38 - 0.40 mm / 0.015 - 0.016 in
GSF05D	0.46 - 0.56 mm / 0.018 - 0.022 in
GSF06D	0.60 - 0.64 mm / 0.023 - 0.025 in
GSF07D	0.70 - 0.78 mm / 0.028 - 0.031 in
GSF08D	0.80 - 0.82 mm / 0.032 - 0.033 in
GSF10D	0.90 - 1.10 mm / 0.036 - 0.044 in
GSF12D	1.14 - 1.27 mm / 0.045 - 0.051 in
GSF15D	1.50 - 1.57 mm / 0.060 - 0.063 in
GSF16D	1.60 - 1.63 mm / 0.063 - 0.065 in
GSF18D	1.80 mm / 0.073 in

References **with** solder-wire perforation

Ref.	Solder wire Ø
GSF08V	0.80 mm / 0.032 in
GSF10V	1.00 mm / 0.040 in
GSF12V	1.20 mm / 0.047 in

Ref.	Solder wire Ø
GSF15V	1.50 mm / 0.059 in
GSF16V	1.60 mm / 0.063 in
GSF18V	1.80 mm / 0.073 in



Stand

SFS Stand works exclusively with SF280 Automatic Solder-Wire Handle.

Tool Holder position is easily adjustable to suit your needs and **Cable Collector** is designed for perfect movement adaptation and to keep cables away from the working area.



JBC
The Soldering Co.



Selective Soldering

The best soldering technology, applied to automation

HA Automatic Soldering Set

Provides the highest soldering quality using **Automatic Cartridge Exchanger** to select the most suitable tip for each soldering joint automatically.

HA245 Automatic General Soldering Set for Robot
HA470 Automatic Heavy-Duty Soldering Set for Robot

SFR

Solder Feeder

SFR Solder Feeder is compatible with several solder wire guide kits. It features a wire detector sensor and in case of any transport error the system informs with "blocked up" or "consumed".

In order to establish the communication between SFR Solder Feeder and the Robot (PC or PLC) JBC provides RS232 Communication Protocol. Control parameters such as wire length and dispensing speed are customizable.

CSR

Cartridge Exchanger

The mechanism works with compressed air to fix and release the cartridges automatically. The position of the exchanger can be adjusted by pivoting up to 35° in both directions and can therefore be optimally adapted to the working position.

GSFR

Guide Kit

It is available with or without solder wire perforation. The perforation allows better flux flow and outgassing, avoiding solder and flux splashing when soldering. Guide kits for different solder wire diameters are available:

References **without solder wire perforation**

Ref.	Ø Size
GSFR04D03	0.4 mm / 0.015 in
GSFR05D03	0.5 mm / 0.019 in
GSFR06D03	0.6 mm / 0.23 in
GSFR08D03	0.8 mm / 0.031 in
GSFR10D03	1.0 mm / 0.039 in
GSFR12D03	1.1-1.2 mm / 0.043-0.047 in
GSFR15D03	1.3-1.5 mm / 0.051-0.059 in
GSFR16D03	1.6 mm / 0.062 in

References **with solder wire perforation**

Ref.	Ø Size
GSFR08V03	0.8 mm / 0.031 in
GSFR10V03	1.0 mm / 0.039 in
GSFR12V03	1.2 mm / 0.047 in
GSFR15V03	1.5 mm / 0.059 in
GSFR16V03	1.6 mm / 0.062 in

UCR

Control Unit

Control Unit manages TRA Soldering Unit and TR Soldering Tool. It has more than 40 commands to help control parameters such as Temperature, Sleep, Hibernation and Control Box status. It also allows you to get information about errors and hours counter.

In order to establish the communication between UCR Control Unit and the robot (PC or PLC) JBC provides RS232 Communication Protocol.

TRA

Automatic Soldering Tool

TRA Soldering Tool, in combination with CSR Cartridge Exchanger, allows the soldering robot to use different tip shapes to achieve the highest quality on each soldering point.

TRA mechanism is actuated by compressed air and this allows a fast and automatic cartridge exchange when cartridges are worn out or when different cartridge geometries are used in the same soldering process.

Nozzle Actuator movement:

Dispensing Nozzle Actuator allows an up to 90° dispensing tube movement into and away from the feeding position to facilitate tip cleaning with CLMRP Tip Cleaner.

CLMRP

Tip Cleaner with Fiber Brushes

CLMRP Tip Cleaner features a large capacity tank with easy extraction and a large opening for easy tip access.

The position of the stand can be adjusted by pivoting up to 35° in both directions and can therefore be optimally adapted to the working position.

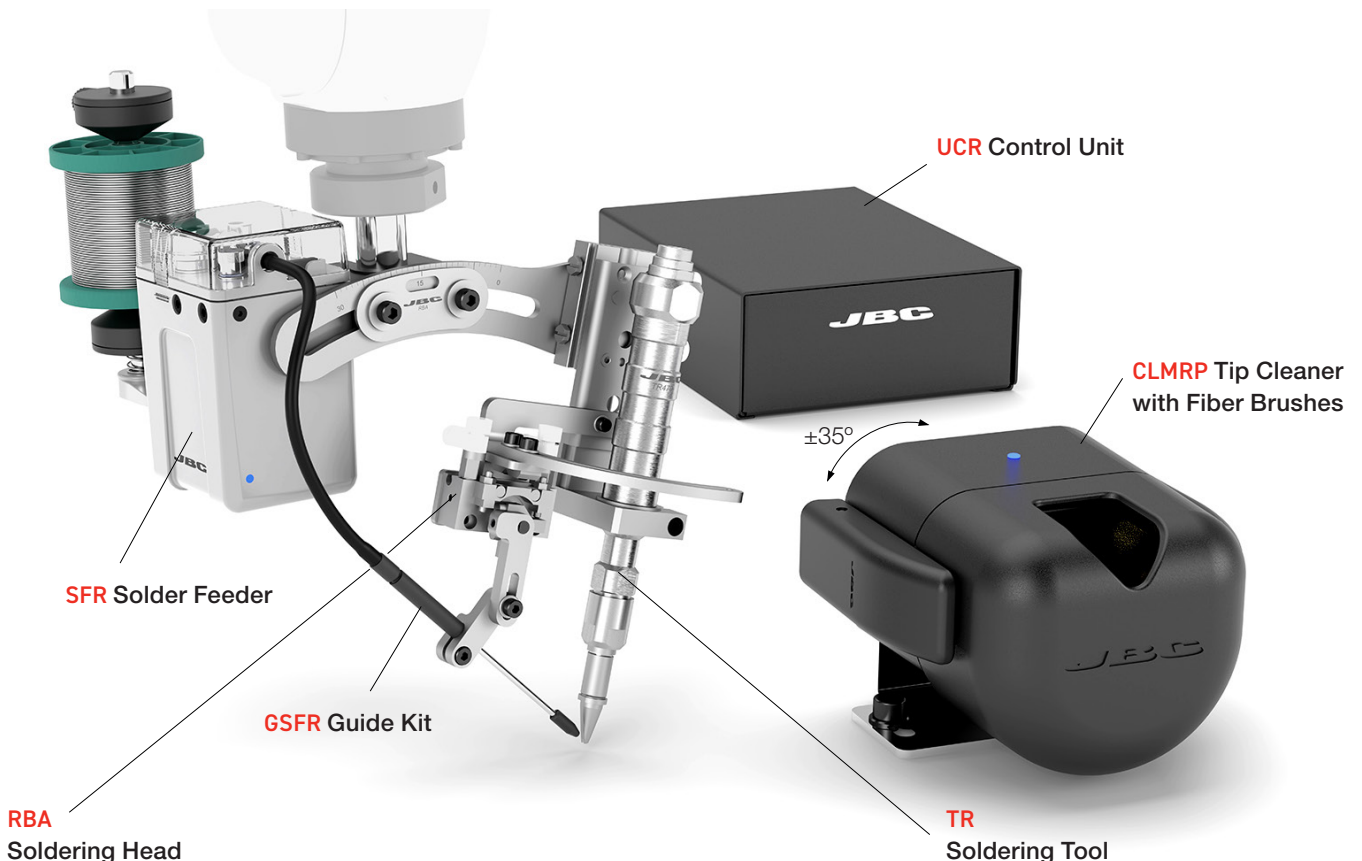
It comes with 2 easily-exchangeable CL2008 Fiber Brushes. Different brushes are available to suit your needs.

HM Soldering Set

Includes all the devices needed to reach the highest soldering quality in automated processes. **The cartridge is exchanged manually.**

HM245 General Soldering Set for Robot

HM470 Heavy-Duty Soldering Set for Robot



RBA Soldering Head

RBA has been designed to be used in automated soldering processes and allows two independent automatic movements through pneumatic actuators:

Lifting Unit movement:

Its integrated pneumatic Lifting Unit enables fast Z-axis movement into and away from the soldering position. Lifting Unit includes a stroke system with a 5mm spring, which, when activated, softens possible collisions while soldering.

Nozzle Actuator movement:

Dispensing Nozzle Actuator allows an up to 90° dispensing tube movement into and away from feeding position to facilitate tip cleaning with CLMRP Tip Cleaner.

TR Soldering Tool

It comes with a robust design and features quick cartridge extraction. A precise positioning system allows centering the cartridge perfectly in the soldering tool. It is controlled by UCR245 Control Unit.

See full Cartridge Range on our website.

JBC also offers the possibility to manufacture your special tip geometry.

JBC

The Soldering Co.



Tip Cleaning Systems

Invest your time in soldering, not cleaning

Cleaning Systems

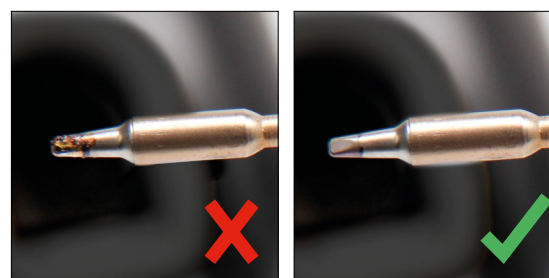
For good thermal transfer, keep the tip tinned thus free from oxides.

Clean the tip in less than a second



With automatic cleaners you **save time** and optimize production.

Improve heat transfer



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

CLMS Junior Tip Cleaner

The ideal partner to any soldering station

Two modes of operation

The motorized brushes start by pushing the button or by selecting the continuous mode.

Splashguard



Save space

You can easily fit the tip cleaner into your workspace thanks to its reduced size.



Brushes

CL4008

Fiber Brushes

The composition, size and thickness of the fibers ensure the **most efficient cleaning** and the least damage while cleaning the tip.



Easy to empty



The solder collector tray can be **easily emptied** and re-used with no wear and tear.

Keep your workspace clean



The locking mechanism on the brushes makes them **fast and easy to replace**.

CLMUP Automatic Tip Cleaner with Fiber Brushes (non-metal)

CLMU Automatic Tip Cleaner with Metal Brushes

Turn On/Off
Continuous Mode
Sensor Mode



It also features a second position which facilitates vertical tip access

Sensor Window

Window

short distance
medium distance
long distance



These cleaners are excellent for cleaning tips of different shapes and sizes. You can easily switch between sensor and continuous mode by pressing the top buttons.

Brushes

CL2008 / CL2007

Fiber Brushes

provides a **soft cleaning**, especially recommended for regular usage to improve tip life. Supplied with CLMUP.



CL1008 / CL1007

Metal Brushes

provides a **thorough cleaning to recover the tip**, increasing heat transfer. Supplied with CLMU.



CL Manual Tip Cleaner

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

CL7882

Antisplash membrane

Prevent splashing of solder particles and maintain the workspace clean.

CL8010

Tip Wiper

A temperature-resistant receptacle lets the operator remove excess solder by gently tapping or wiping.

CL6210

Brass Wool

Very effective cleaning method. It leaves a small layer of solder on the tip to prevent oxidation between cleaning and rewetting.



Non-slip Base

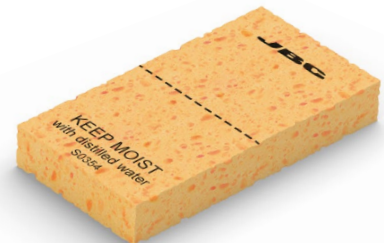
No need to hold the base while cleaning tips.



S0354

Sponge

The least harmful cleaning method. Keep the sponge moist with distilled water when working to avoid tip wear.



Specifications

	CL	CLMS	CLMU / CLMUP
Dimensions	112 x 89 x 90 mm / 4.4 x 3.5 x 3.5 in	95 x 91 x 112 mm / 3.7 x 3.6 x 4.4 in	128 x 131 x 137 mm / 5. x 5.1 x 5.4 in
Weight	0.88 Kg / 1.93 lb	1.45 kg / 3.20 lb	2.1 Kg / 4.63 lb
Operating modes	Manual	Switch & Continuous	Sensor & Continuous
Brush diameter	--	Ø 34 mm / 1.33 in	Ø 50 mm / 1.97 in
Brush speed	--	550 rpm 650 rpm (continuous mode)	750 rpm
Silent operation	--	30 dB at 30 cm	25 dB at 30 cm
Vertical position	--	--	✓
AC Adapter	--	Input: 100 - 240V, 50/60 Hz Output: DC 12V, 1 A	Input: 100 - 240V, 50/60Hz Output: DC 24V, 2 A



JBC

The Soldering Co.



Wire Stripper Stations

Designed for thermal wire insulation stripping

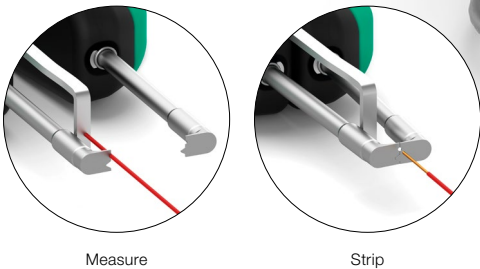
Wire Stripper Stations

Our **WSS** and **WSB** Wire Stripper Stations are specially designed for stripping high-temperature wire insulations.

WSST Stand for WS140 / **WSBT** Stand for WS440
Sleep & Hibernation Modes automatically detect the tool in the stand and reduce the tip temperature.

The position of the tool holder is easily adjustable to suit your needs and **Cable Collector** is designed for perfect movement adaptation and to keep cables away from the working area.

WS140
High-Temperature Precision Wire Stripper Tweezers
WS140 works exclusively with the interchangeable **W140 Blade Cartridge Range** which includes different AWG sizes from **40 to 14 AWG (0.08 to 1.63 mm)** and reaches temperatures of up to **800°C**.



Specifications

Ref. - Voltage (AC) / Fuse	WSS-9B - 100V 50/60Hz.
	WSS-1B - 120V 50/60Hz.
	WSS-2B - 230V 50/60Hz.
	WSB-9B - 100V 50/60Hz.
	WSB-1B - 120V 50/60Hz.
	WSB-2B - 230V 50/60Hz.

Max. temperature	800 °C / 1472 °F
Output peak power	75 W
Operating temp. range	10 to 50 °C / 50 to 120 °F
Connections	USB-B
Complies with CE standards. ESD Protected.	

WS
Wire Stripper Control Unit
Specially designed for stripping wire insulations made of thermostable materials such as Teflon*, Kapton*, silicone, rubber, etc.

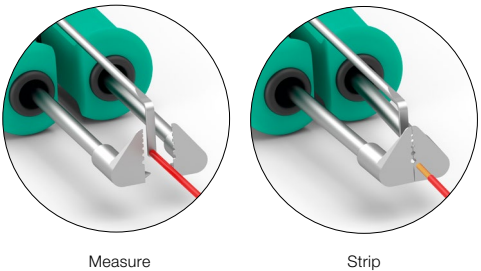
It incorporates predetermined power levels for each type of material. In addition, it features a customized working mode.

CC1001
Cable Collector
Designed for **perfect movement adaptation**, avoiding any undesired movement in the tool while performing your soldering job and keeping the troublesome cables away from the soldering area.

SCH
Cartridge Holder
A practical and **stable holder** for cartridge storage and suitable for the following cartridges:

C120, C210, C245, C250, C420, C470, **W140, W440**, and C560 Desoldering Tips.

WS440
High-Temperature Wire Stripper Tweezers
WS440 works exclusively with the interchangeable **W440 Blade Cartridge Range** which includes different AWG sizes from **34 to 16 AWG (0.16 to 1.29 mm)** and reaches temperatures of up to **800 °C**.



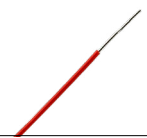
Insulation Materials



POLYVINYL CHLORIDE
Symbol: PVC
Power Level: 6%
Thermoplastic



POLYETHYLENE
Symbol: PE
Power Level: 7%
Thermoplastic



NYLON®¹
Symbol: PA
Power Level: 10%
Thermoplastic



KNAR®²
Symbol: PVDF
Power Level: 16%
Thermoplastic



TEFZEL®¹
Symbol: ETFE
Power Level: 17%
Thermoplastic



TEFLON®¹
Symbol: FEP / PFA / PTFE
Power Level: 16% / 21% / 40%
Thermostable



ETHYLENE PROPYLENE/ RUBBER
Symbol: EPM/EPR
Power Level: 44%
Thermostable



SILICONE RUBBER
Symbol: SI
Power Level: 51%
Thermostable

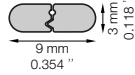
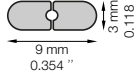
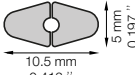
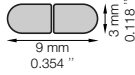
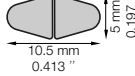
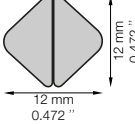


KAPTON®¹
Symbol: PI
Power Level: 90%
Thermostable

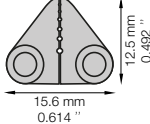
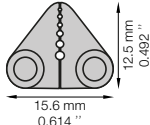
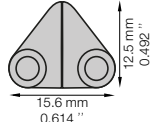
¹ Registered Trade Marks of DuPont

² Registered Trade Marks of Arkema

W140 Blade Cartridge Range for WS140 Precision Tweezers

Cartridge Ref.	Tip Hole	AWG Solid	AWG Stranded	
W14040G	Ø 0.08 mm / 0.0031 in	40	-	
W14038G	Ø 0.10 mm / 0.0039 in	38	-	
W14037G	Ø 0.11 mm / 0.0043 in	37	-	
W14036G	Ø 0.13 mm / 0.0051 in	36	-	
W14034G	Ø 0.16 mm / 0.0063 in	34	36 (7 x 44)	
W14032G	Ø 0.20 mm / 0.0079 in	32	34 (7 x 42)	
W14030G	Ø 0.25 mm / 0.0098 in	30	32 (19 x 44)	
W14028G	Ø 0.32 mm / 0.0126 in	28	30 (7 x 38) 30 (19 x 42)	
W14026G	Ø 0.40 mm / 0.0157 in	26	28 (19 x 40) 27 (7 x 35)	
W14024G	Ø 0.51 mm / 0.0201 in	24	26 (19 x 38) 26 (10 x 36)	
W14022G	Ø 0.64 mm / 0.0252 in	22	24 (19 x 36)	
W14020G	Ø 0.81 mm / 0.0319 in	20	24 (7 x 32) 20 (19 x 34)	
W14018G	Ø 1.02 mm / 0.0402 in	18	20 (42 x 36) 20 (19 x 32) 20 (7 x 28)	
W14016G	Ø 1.29 mm / 0.0508 in	16	18 (19 x 30)	
W14014G	Ø 1.63 mm / 0.0642 in	14	16 (7 x 24)	
W14003F	Flat Blade: Ø 3 mm / 0.118 in	-	-	
W14005F	Flat Blade: Ø 5 mm / 0.197 in	-	-	
W14012F	Flat Blade: Ø 12 mm / 0.472 in	-	-	

W440 Blade Cartridge Range for WS440 Tweezers

Cartridge Ref.	Tip Hole	AWG Solid	AWG Stranded	
W440021	Ø 0.16 mm / 0.0063 in	34	36 (7x44)	
	Ø 0.25 mm / 0.0098 in	30	32 (19 x 44)	
	Ø 0.32 mm / 0.0126 in	28	30 (7 x 38) 30 (19 x 42)	
	Ø 0.40 mm / 0.0157 in	26	28 (19 x 40) 27 (7 x 35)	
	Ø 0.51 mm / 0.0201 in	24	26 (19 x 38) 26 (10 x 36)	
	Ø 0.64 mm / 0.0252 in	22	24 (19 x 36) 24 (7 x 32)	
	Ø 0.81 mm / 0.0319 in	20	22 (19 x 34) 20 (42 x 36)	
W440023	Ø 0.4 mm / 0.0157 in	26	28 (19 x 40) 27 (7 x 35)	
	Ø 0.51 mm / 0.0201 in	24	26 (19 x 38) 26 (10 x 36)	
	Ø 0.64 mm / 0.0252 in	22	24 (19 x 36) 24 (7 x 32)	
	Ø 0.81 mm / 0.0319 in	20	22 (19 x 34) 20 (42 x 36)	
	Ø 1.02 mm / 0.0508 in	18	20 (19 x 32) 20 (7 x 28)	
	Ø 1.29 mm / 0.0508 in	16	18 (19 x 30)	
				
w440025	Flat Blade: 12.5 mm / 0.4921 in	-	-	



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

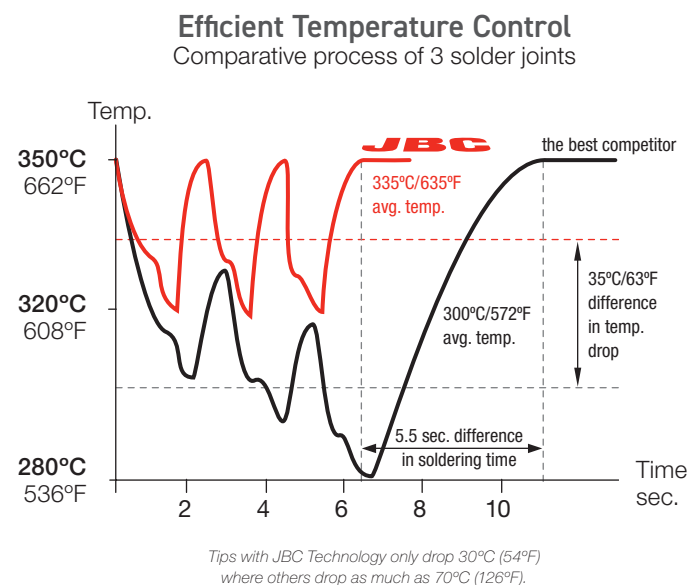
All JBC products comply with CE standards and ESD recommendations.



JBC Technology

Most Efficient Soldering System

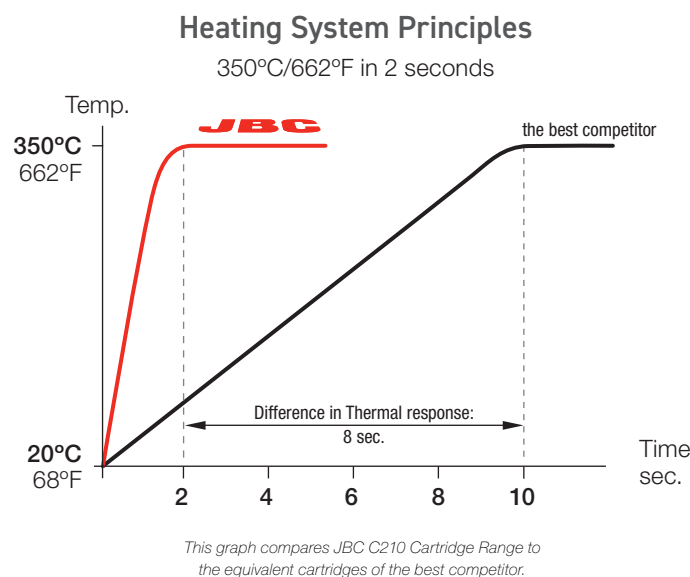
JBC Stations work with JBC Most Efficient Soldering System, which **recovers tip temperature extremely quickly**. This increases work efficiency and allows the user to work with lower temperatures.



Enhanced Temperature Efficiency ➔ Increased Productivity + Better Quality

Productivity

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



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

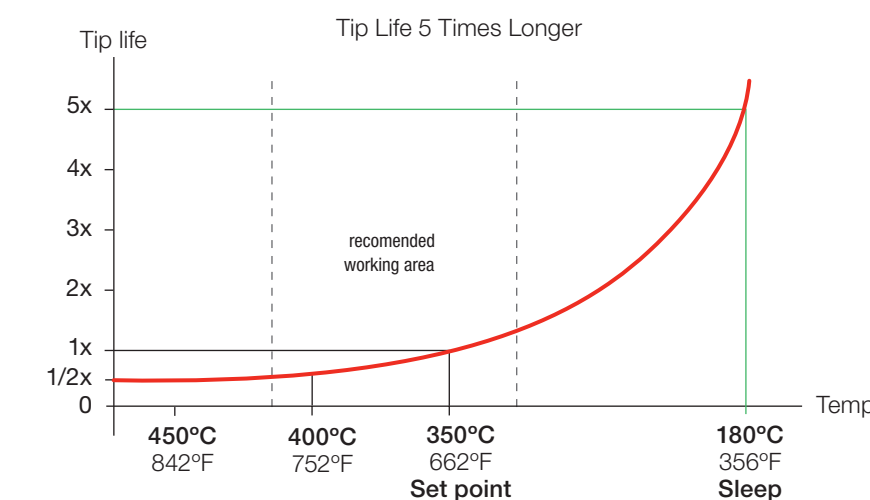
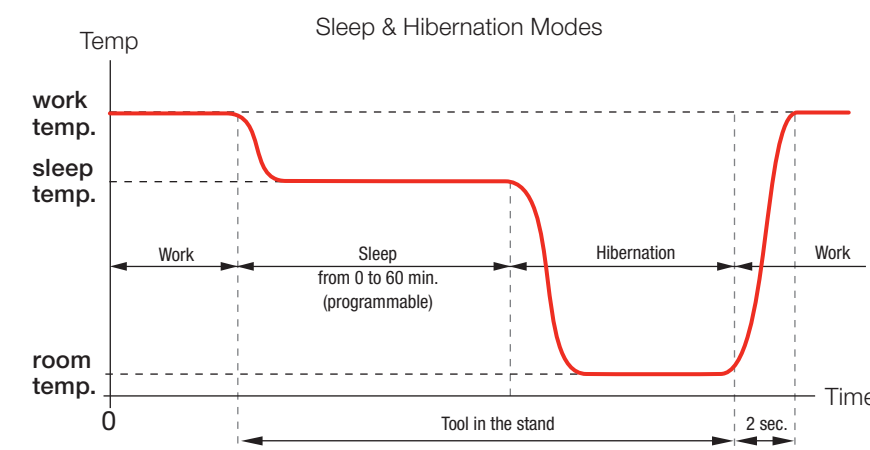
Sleep Mode **automatically lowers tip temperature** below the solder melting point when the tool rests in the stand. It prevents the dissolution of the iron tip coating into molten solder.

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**.

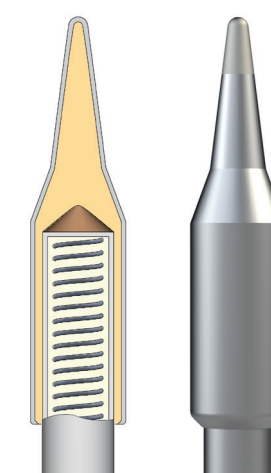
Longer Tip life

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

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 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




















C115														
C115126	C115101	C115103	C115106	C115107	C115124	C115118	C115105	C115110	C115116	C115117	C115108	C115125	C115113	C115114
Stainless steel tip (0.039)					Spoon Ø 1 (0.039)					High-Thermal Performance				
C115115	C115111	C115112	C115120		C115109	C115127	C115128			C115211	C115212			
C115213 A = 1 x 0.3 (0.039 x 0.012) C115214 A = 1.8 x 0.5 (0.071 x 0.020) C115221 A = 1.3 x 0.3 (0.051 x 0.012) C115222 A = 1.6 x 0.3 (0.063 x 0.012) C115223 A = 2.4 x 0.6 (0.094 x 0.024)														


C245														
C245731	C245773 C245673*	C245742	C245774	C245906 C245806*	C245406	C245768	C245944 C245844*	C245907 C245807*	C245407	C245759	C245770	C245741	C245729	C245061 C245261*
0.6 x 0.3 (0.024 x 0.011)					1.2 x 0.7 (0.047 x 0.028)					2.2 x 1 (0.087 x 0.039)				

																																							
3.2 x 1.2 (0.126 x 0.047)		4 x 0.8 (0.157 x 0.031)		4.8 x 1 (0.189 x 0.039)		4.8 x 1.5 (0.189 x 0.059)		4.8 x 1.5 (0.189 x 0.059)		5 x 1 (0.197 x 0.039)		5 x 1.7 (0.197 x 0.067)		6.6 x 1.8 (0.259 x 0.071)		Ø 0.3 (Ø 0.012)		Ø 0.4 (Ø 0.016)		Ø 0.5 (Ø 0.020)		Ø 0.5 (Ø 0.020)		Ø 0.6 (Ø 0.024)		Ø 0.6 (Ø 0.024)		Ø 0.8 (Ø 0.031)		Ø 1 (Ø 0.039)		Ø 1 (Ø 0.039)		Ø 1.7 (Ø 0.070)		Ø 2.2 (Ø 0.090)		Ø 3 (Ø 0.118)	
C245775	C245755	C245756	C245908 C245808*	C245708	C245967	C245069	C245966 C245866*	C245030 C245230*	C245032	C245036	C245930 C245201*	C245001	C245937	C245957	C245903 C245803*	C245403	C245943	C245107																					

													<div>Hoof tip with reduced tinned surface, ideal for touchup</div> <div></div> <div>C245064 A = Ø 1.3 (Ø 0.051) C245102 A = Ø 2 (Ø 0.079) C245797 A = Ø 3.8 (Ø 0.149)</div>							
C245747	C245710	C245905	C245405	C245945 C245845*	C245795	C245784	C245793	C245912 C245812*	C245056 C245256*	C245951	C245766	C245301*		C245748	C245749	C245962 C245862*	C245963 C245863*	C245946 C245846*		
Ø 0.6 (Ø 0.024)					Ø 2.5 (Ø 0.098)					Ø 0.3 (Ø 0.012)					1.2 x 0.7 (0.047 x 0.027)					












3.2 x 1.5 (0.126 x 0.059)		3 x 1 (0.118 x 0.039)		Ø 0.4 (Ø 0.016)		Ø 0.4 (Ø 0.016)		Ø 0.4 (Ø 0.016)		Ø 0.4 (Ø 0.016)		Ø 0.6 (Ø 0.024)		Ø 0.8 (Ø 0.031)		Ø 1 (Ø 0.039)		Ø 1.5 (Ø 0.059)		Ø 2 (Ø 0.079)		Ø 3 (Ø 0.118)		Ø 4 (Ø 0.157)	
																									
C245732	C245761	C245034	C245029	C245126	C245786	C245929	C245935	C245904	C245259	C245260	C245627	C245628													

			
Spoon Ø 2.3 (Ø 0.091)	C245965 A = 1.9 (Ø 0.075) B = 1.6 (Ø 0.063)	C245931 A = 2.7 (Ø 0.106)	C245938 A = 3.8 (Ø 0.149)
C245067			

	C245016 A = 2 (Ø 0.079) B = 1.6 (Ø 0.063)	C245017 A = 2.2 (Ø 0.086) B = 3 (Ø 0.118)	C245150 A = 2.3 (Ø 0.091) B = 3 (Ø 0.118)	C245018 A = 3.5 (Ø 0.138) B = 2.2 (Ø 0.087)	C245019 A = 4.6 (Ø 0.181) B = 2.5 (Ø 0.098)
---	--	--	--	--	--

C245789 A = 0.3 (0.012) B = 3.8 (0.150)					C245220* A = 5.4 (0.213) B = 6 (0.236)					C245223* A = 8.5 (0.335) B = 8.5 (0.335)					C245914 A = 10 (0.394)					C245138				
C245939 A = 0.4 (0.016) B = 6 (0.236)					C245250* A = 5.4 (0.213) B = 8 (0.315)					C245224* A = 12 (0.472) B = 12 (0.472)					C245752 A = 15 (0.591)					C245123				
C245785 A = 0.4 (0.016) B = 6 (0.236)					C245221* A = 5.4 (0.213) B = 10 (0.394)					C245344* A = 26 (1.024) B = 26 (1.024)					C245776 A = 37 (1.457)					C245121				
C245955 A = 0.5 (0.020) B = 13 (0.512)															C245792 A = 40 (1.575)					C245109				

C245053 A = Ø 5 (0.197) B = Ø 3.8 (0.149)					C245119					C245772					C245790 A = Ø 1.8 (0.071) B = Ø 0.8 (0.031) C = 0.4 (0.016)					C245754 A = 3.5 (0.138) B = 0.75 (0.029) C = 3 (0.118) D = 6 (0.236)				
C245052 A = Ø 6 (0.236) B = Ø 4.9 (0.193)															C245785 A = Ø 3 (0.118) B = Ø 1.5 (0.059) C = 0.6 (0.024)					C245751 A = 4 (0.157) B = 1.25 (0.049) C = 3 (0.118) D = 6 (0.236)				
C245054 A = Ø 7 (0.276) B = Ø 6.5 (0.256)															C245763 A = Ø 4 (0.157) B = Ø 2.5 (0.098) C = 1 (0.039)					C245667 A = 4 (0.157) B = 1.25 (0.049) C = 3 (0.118) D = 12 (0.472)				
															C245764 A = Ø 0.5 (0.019) B = 1 (0.039) C = 12 (0.472)					C245571				

C245E Cartridges have a reinforced protection on the tip that provides a longer life with a small reduction of thermal efficiency											
C245E	0.8 x 0.4 (0.031 x 0.016)	1.2 x 0.4 (0.047 x 0.016)	1.6 x 0.5 (0.063 x 0.020)	2.4 x 0.8 (0.094 x 0.031)	2.7 x 1 (0.106 x 0.039)	3.2 x 0.8 (0.126 x 0.031)	5 x 1.7 (0.197 x 0.067)	6.6 x 1.8 (0.260 x 0.071)	Ø 2.4 (Ø 0.094)	Ø 3.5 (Ø 0.138)	7.2 (0.283)
											
C245159E	C245158E	C245160E	C245155E	C245735E	C245161E	C245070E	C245968E	C245156E	C245354E	C245157E	

Chip Components																							
C120002	C120902	C120006	C120004	C120012	C120011	C120001			C120003	C120005	C120007	C120008	C120009	C120010									
Ø 0.2 (0.008)					0.6 x 0.3 (0.024 x 0.012)					Ø 0.2 (0.008)													
															Dual in Line								C120

C210020	C210009	C210016	C210001	C210013	C210003	C210005	C210002	C210010	C210014	C210004	C210006	C210027	C210031	C210028	C210029	C210030	C210019	C210023	C210021
Ø 0.1 (0.004)					0.2 x 0.1 (0.008 x 0.004)					0.6 x 0.3 (0.024 x 0.012)					0.2 x 0.1 (0.008 x 0.004)				

Ø 0.4 (Ø 0.016)	Ø 0.6 (Ø 0.024)	Ø 0.8 (Ø 0.031)	Ø 1 (Ø 0.039)	Ø 1.7 (Ø 0.067)	Ø 2.2 (Ø 0.087)	1.2 x 0.7 (Ø 0.047 x 0.028)	1.8 x 0.8 (Ø 0.071 x 0.032)	2.2 x 1 (Ø 0.087 x 0.039)	4.8 x 1.5 (Ø 0.189 x 0.059)	3.2 x 1.5 (Ø 0.126 x 0.059)	1.2 x 0.7 (Ø 0.047 x 0.028)	2.2 x 1 (Ø 0.087 x 0.039)	4.8 x 1.5 (Ø 0.189 x 0.059)	2.2 x 1 (Ø 0.087 x 0.039)	Ø 2.2 (Ø 0.087)	Ø 3.8 (Ø 0.149)
C250420	C250401	C250402	C250403	C250409	C250410	C250404	C250405	C250406	C250412	C250418	C250407	C250408	C250411	C250413	C250414	C250415

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.



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.



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.



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.



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.



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.



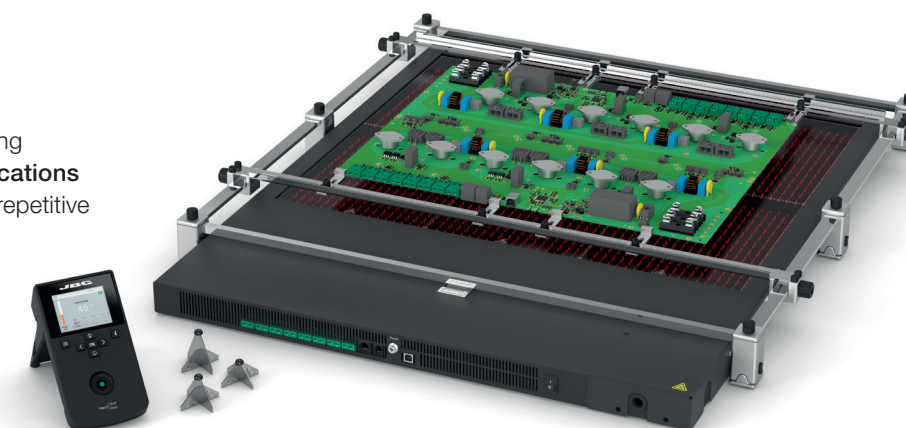
Preheaters

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**.







JBC
The Soldering Co.

Cartridge Guide

Feel the quality, be exclusive

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W440 Blade Cartridge Range for WS440 High-Temperature Wire Stripper Tweezers	65

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.



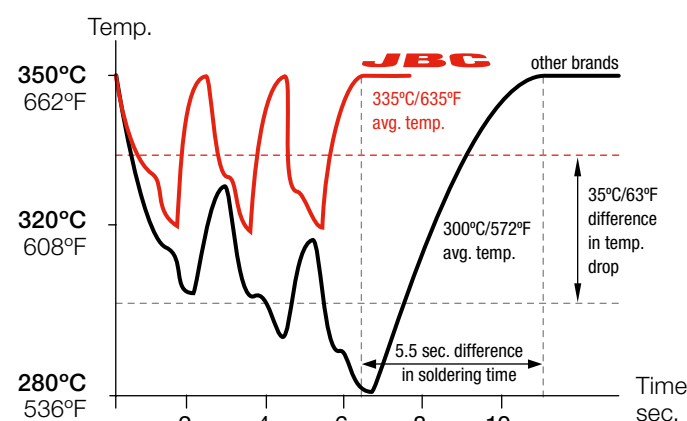
JBC Technology

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).

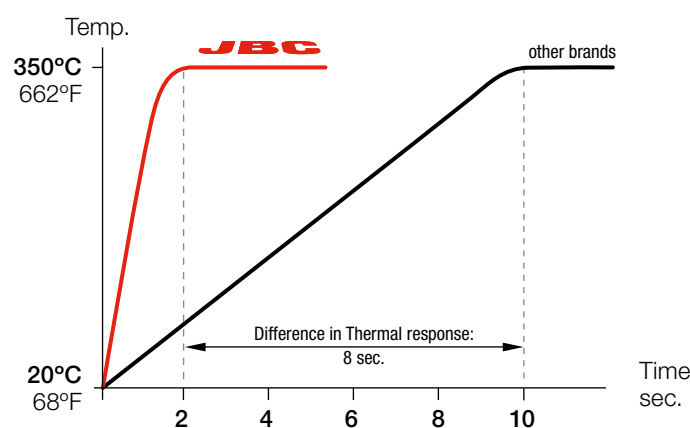
Enhanced Temperature Efficiency → Increased Productivity + Better Quality

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.

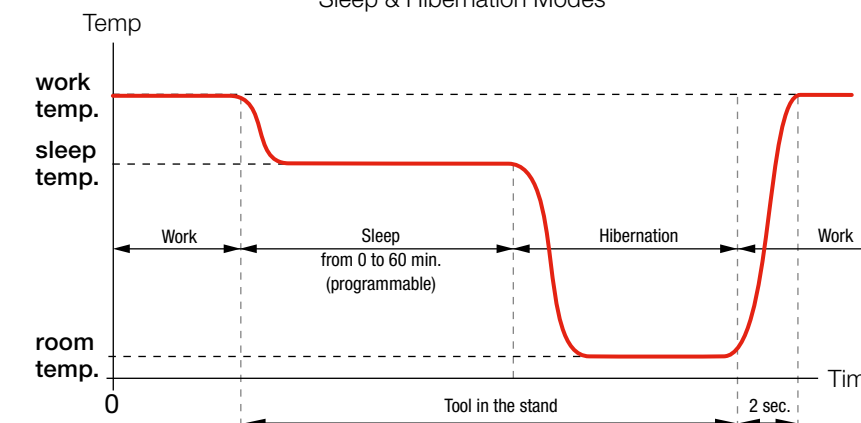
Hibernation Mode

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**.

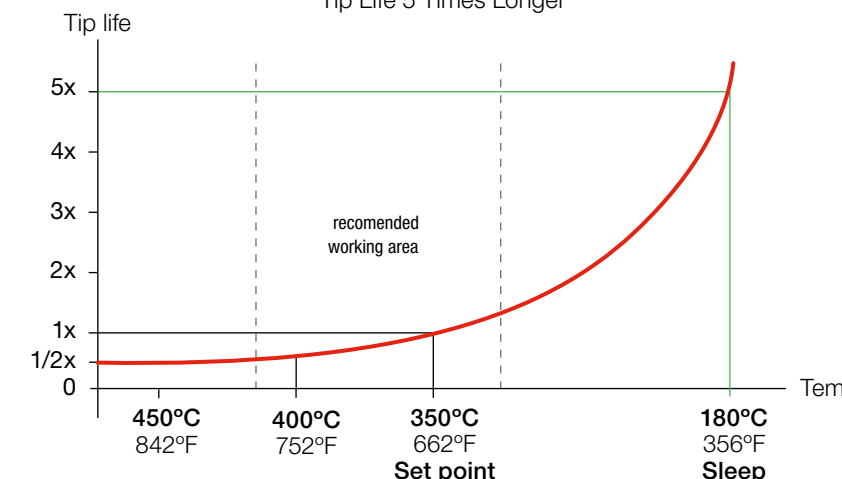
Longer Tip life

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

Sleep & Hibernation Modes

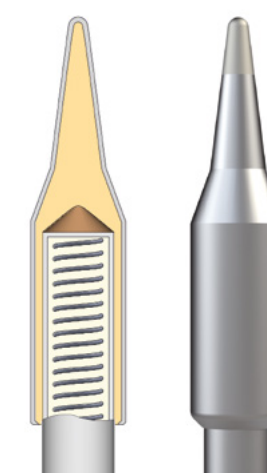


Tip Life 5 Times Longer



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:



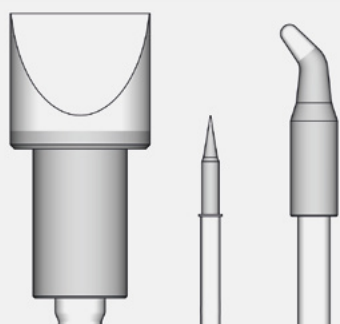
- **Excellent Heat Transfer**
The compact element reduces thermal barriers.
- **Instantaneous Heating**
A fully-integrated thermal sensor in the heater ensures quick temperature recovery.
- **Great Durability**
The intelligent algorithm control program extends tip life.

When you start working do not forget:

Bigger is better

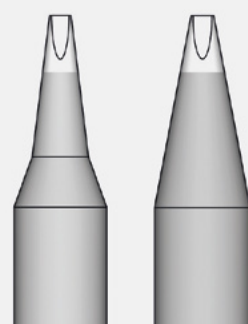
The bigger the solder tip, the better the thermal transfer. Select the tip that has the greatest contact area.

Over 500 tips of different sizes, shapes and power



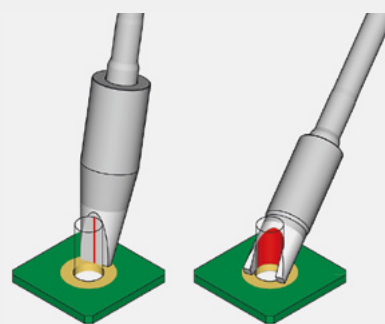
JBC Cartridges range from models for precision work to high power requirement applications.

Geometry Slimness vs Efficiency



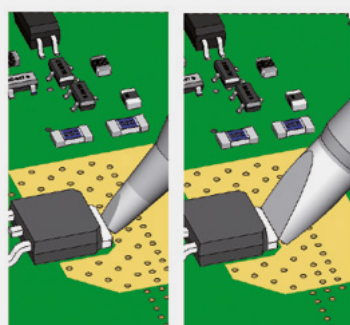
A tip with high-thermal efficiency makes your job up to **40% faster** than a tip with a slimmer geometry.

Increase the contact surface Tip - Application



The bigger the contact surface that the tip has with the application, the higher the **thermal transfer**.

Largest mass possible



The more mass the tip has, the more heat is accumulated and the **lower is the temperature drop**.

Maintain tip surface clean and tinned



Remember that rusty and dirty surfaces reduce **heat transfer** to the solder joint.

(See JBC's cleaning methods on pages 8-9).

This way you will be able to:

- Work at **lower temperatures** (350°C / 662°F).
- Obtain **better results** in **less time**.
- Improve **thermal performance**.
- Increase **temperature precision**.
- Reduce **collateral damage** (thermal shock on components and PCBs).

Factors limiting tip life

Working temperature

The higher the temperature, the greater the oxidation and corrosion. Work with the **lowest possible temperature** and choose the tip with the greatest contact area for each application. **Use thermally efficient tools** and keep tips clean of oxidation.

Correct techniques

Too much pressure on the surface to solder can cause tip or plate breakage. Do not use the tip as a pointed object or a screwdriver. Choose the **right temperature and tip shape for each application**.

Iron plate thickness

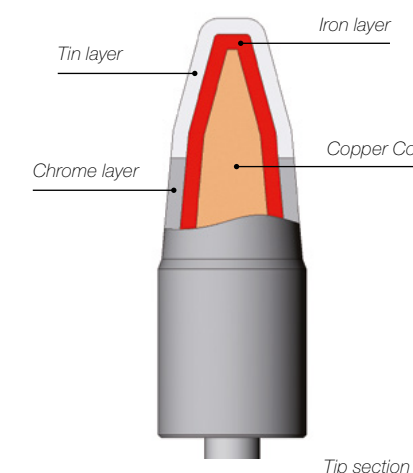
Iron plate wear shortens tip life by hollowing tips out. Do not use mechanical or chemical means to clean the tip. Use the **cleaning methods provided by the manufacturer** - such as brass wool, automatic tip cleaner or sponges.

Oxidization

An oxidized soldering iron does neither wet nor transfer heat well (dewetting). The higher the temperature, the greater the risk of oxidation. **Always keep tips tinned while not in use** and take advantage of **JBC Sleep & Hibernation Modes**.

Flux and solder alloy

Too much active flux can cause corrosion. **IPC recommends: ROL, REL and ORL**. Flux quantity inside small diameter solder wires might not be enough. **Provide compatible external flux if necessary**.



Tip section

Remember:

- Work with the **lowest possible temperature**.
- Use **thermally efficient tools**.
- Choose the **right temperature and tip shape for each application**.
- **IPC recommends: ROL, REL and ORL**.
- **Always keep tips tinned while not in use**.
- Take advantage of **JBC Sleep & Hibernation Modes**.
- **Too much pressure** on the surface to solder can cause **tip or plate breakage**.
- Use the **cleaning methods provided by the manufacturer**.



Cleaning Systems

For good thermal transfer, keep the tip tinned thus free from oxides.

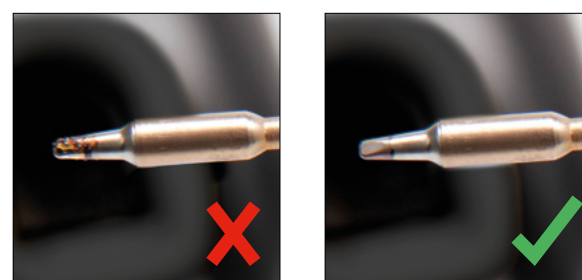
JBC offers effective, practical and affordable methods to prevent splashing and extend tip life:

Clean the tip in less than a second



With automatic cleaners you **save time** and optimize production.

Improve heat transfer



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

Easy to empty



The solder collector tray can be **easily emptied** and re-used with no wear and tear.

Keep your workspace clean



The locking mechanism on the brushes makes them **fast and easy to replace**.

CL Manual Tip Cleaner

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



CLMS Junior Tip Cleaner

The ideal partner to any soldering station.

Two modes of operation

The motorized brushes start by pushing the button or by selecting the continuous mode.



CLMUP Automatic Tip Cleaner with Fiber Brushes (non-metal)



It also features a second position which facilitates vertical tip access

CLMU Automatic Tip Cleaner with Metal Brushes



Cleaning Methods

CL6210

Brass Wool

Very effective cleaning method. It leaves a small layer of solder on the tip to prevent oxidation between cleaning and rewetting.



S0354

Sponge

The least harmful cleaning method. Keep the sponge moist with distilled water when working to avoid tip wear.



Save space

You can easily fit the tip cleaner into your workspace thanks to its reduced size.

Brushes

CL4008

Fiber Brushes

The composition, size and thickness of the fibers ensure the **most efficient cleaning** and the least damage while cleaning the tip.



Brushes

CL2008 / CL2007

Fiber Brushes

provides a **soft cleaning**, especially recommended for regular usage to improve tip life.



CL1008 / CL1007

Metal Brushes

provides a **thorough cleaning to recover the tip**, increasing heat transfer. Supplied with CLMU.


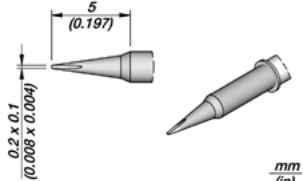
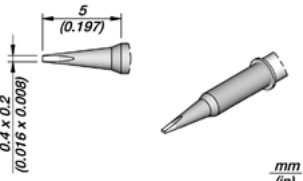
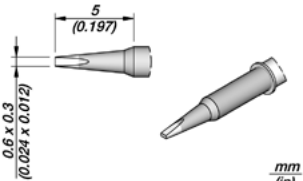
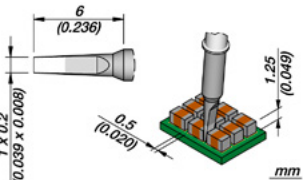
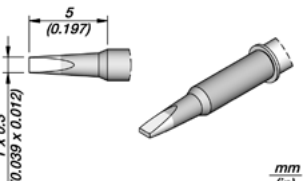
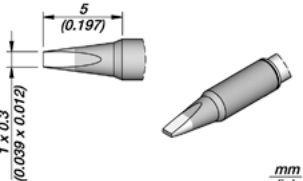
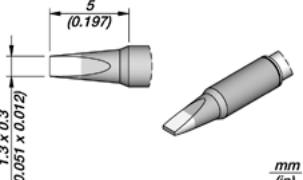





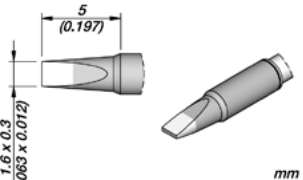
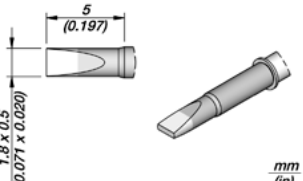
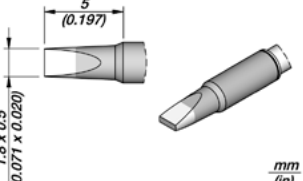
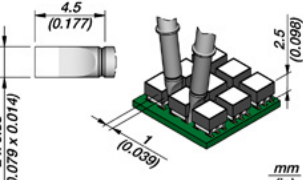
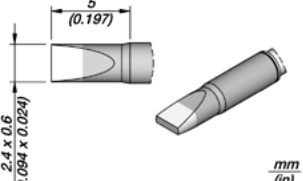

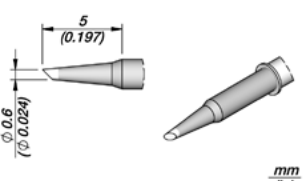
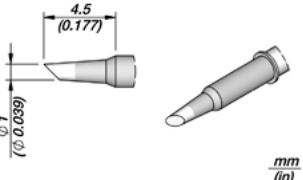

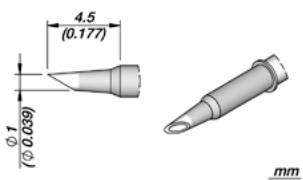
Our Cartridge Range
is steadily growing as
we are determined
to respond to our
clients' specific needs,
cooperating closely
with them to create
the right solution.




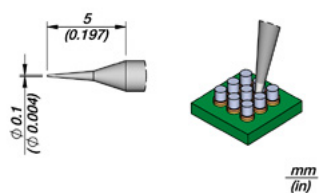
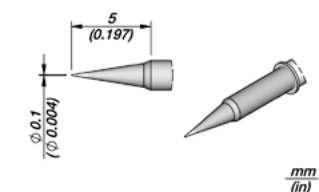
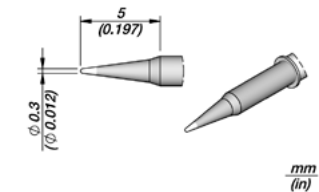
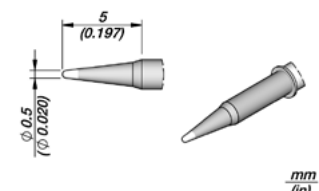
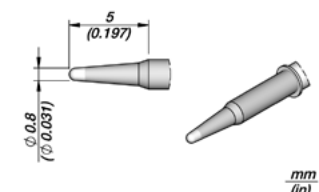

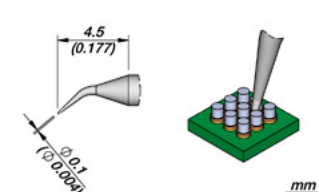
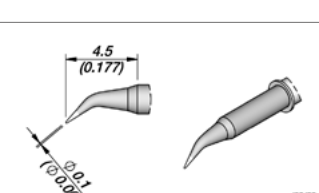
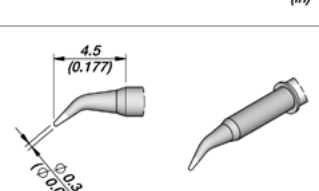
C115 Cartridge Range
for **NT115**, **AN115** and **NP115** Nano Tools

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C115116	Chisel Cartridge 0.2 x 0.1 mm 0.008 x 0.004 in		Package 01005, 0201 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115117	Chisel Cartridge 0.4 x 0.2 mm 0.016 x 0.008 in		Package 0402 Very fine pitch 0.65 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115108	Chisel Cartridge 0.6 x 0.3 mm 0.024 x 0.012 in		Package 0603 PLCC, SO, SOT	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115125	Chisel Cartridge 1 x 0.2 mm 0.039 x 0.008 in		Package 0805 Difficult to reach	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115113	Chisel Cartridge 1 x 0.3 mm 0.039 x 0.012 in		Package 0805 Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115213	Chisel Cartridge 1 x 0.3 S1 mm 0.039 x 0.012 in		Package 0805 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115221	Chisel Cartridge 1.3 x 0.3 mm 0.051 x 0.012 in		Package 0805 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115


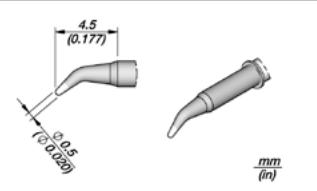

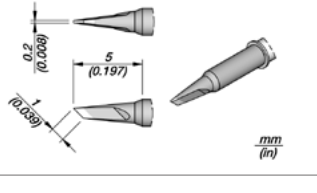
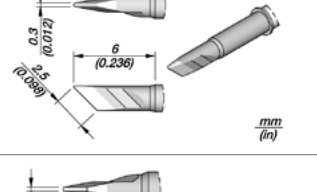
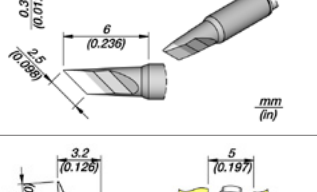
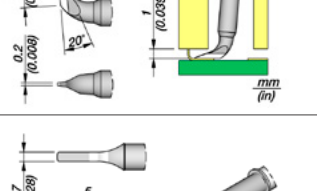
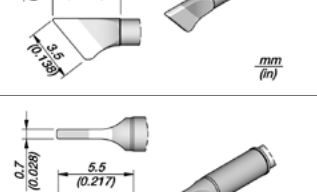
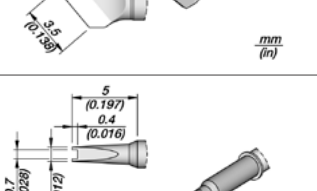

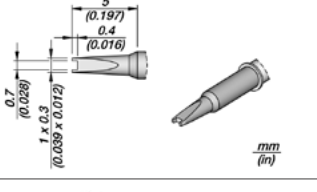

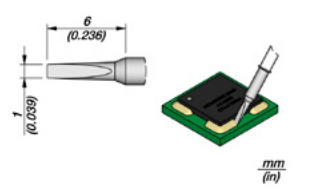
C115 Cartridge Range for NT115, AN115 and NP115 Nano Tools

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C115222	Chisel Cartridge 1.6 x 0.3 mm 0.063 x 0.012 in		Package 0805 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115114	Chisel Cartridge 1.8 x 0.5 mm 0.071 x 0.020 in		Package 0805 Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115214	Chisel Cartridge 1.8 x 0.5 mm S1 0.071 x 0.020 in		Package 1206, 1210 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115131	Chisel Cartridge 2 x 0.35 mm 0.079 x 0.014 in		LED SMD 2727, 1921, 1415	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115223	Chisel Cartridge 2.4 x 0.6 mm 0.094 x 0.024 in		Package 0805 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115109	Bevel Cartridge Ø 0.6 mm Ø 0.024 in		Drag soldering SMD Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115127	Bevel Cartridge Ø 1 mm Ø 0.039 in		Drag soldering SMD Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115128	Spoon Cartridge Ø 1 mm Ø 0.039 in		Drag soldering SMD Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115

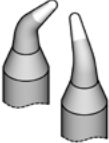
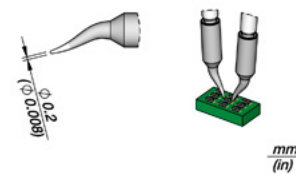
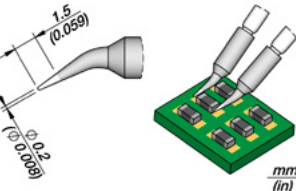
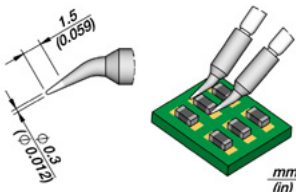
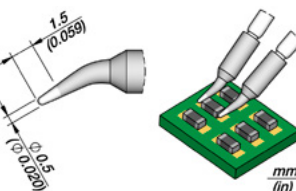
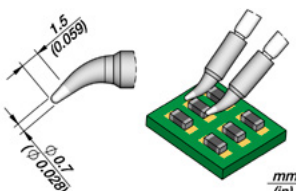
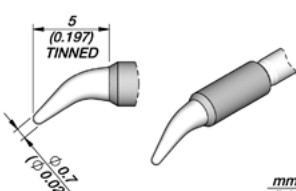
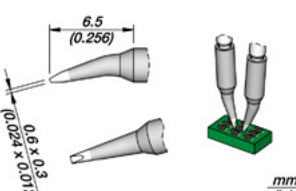
C115 Cartridge Range for NT115, AN115 and NP115 Nano Tools

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	C115126	Conical Cartridge Ø 0.1 mm S1 Ø 0.004 in		Package 01005 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115101	Conical Cartridge Ø 0.1 mm Ø 0.004 in		Package 01005 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115103	Conical Cartridge Ø 0.3 mm S1 Ø 0.012 in		Package 0201, 0402 Very fine pitch 0.65 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115106	Conical Cartridge Ø 0.5 mm Ø 0.020 in		Package 0603 QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115107	Conical Cartridge Ø 0.8 mm Ø 0.031 in		General use	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115124	Conical Bent Cartridge Ø 0.1 mm S1 Ø 0.004 in		Package 01005 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115118	Conical Bent Cartridge Ø 0.1 mm Ø 0.004 in		Package 01005 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115105	Conical Bent Cartridge Ø 0.3 mm Ø 0.012 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115


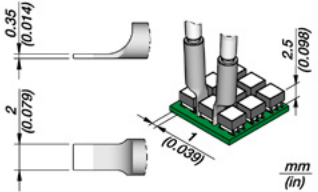
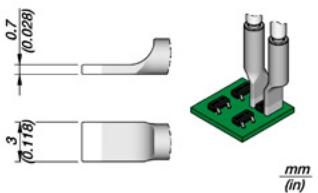
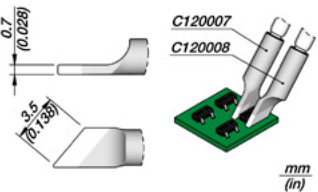
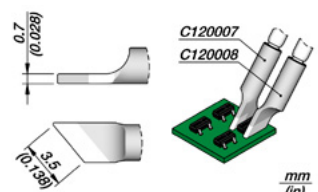
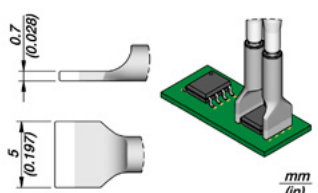
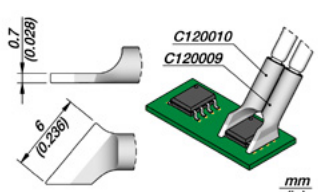
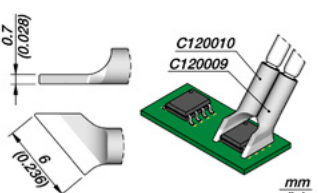
C115 Cartridge Range for NT115, AN115 and NP115 Nano Tools

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C115110	Conical Bent Cartridge Ø 0.5 mm Ø 0.020 in		Package 0603 QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115120	Knife Cartridge 1 x 0.2 mm 0.039 x 0.008 in		Drag soldering SMD Package 0805 Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115112	Knife Cartridge 2.5 x 0.3 mm 0.098 x 0.012 in		Drag soldering SMD SO, SOT Package 1210, 1812, 2010, 2512	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115212	Knife Cartridge 2.5 x 0.3 mm S1 0.098 x 0.012 in		Drag soldering SMD SO, SOT Package 1210, 1812, 2010, 2512 High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115129	Knife Cartridge 2.8 x 0.2 mm 0.110 x 0.008 in		IC, Difficult to reach	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115111	Blade Cartridge 3.5 x 0.7 mm 0.138 x 0.028 in		Package 1210, 1812 SO, SOT	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115211	Blade Cartridge 3.5 x 0.7 mm S1 0.138 x 0.028 in		Package 1210, 1812 SO, SOT High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115132	Chip Components Cartridge 0.7 mm 0.028 in		Package 0201	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115115	Conformal Coating Removal Steel Cartridge 1 mm 0.039 in		Stainless Steel Remove underfill encapsulants	Stations: NASE, NANE Tools: NT115, AN115, NP115


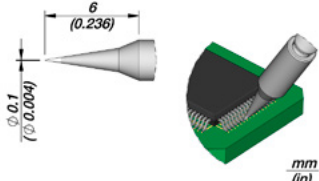
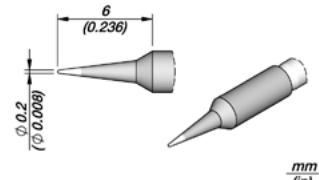
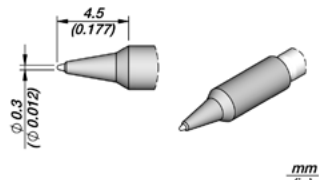
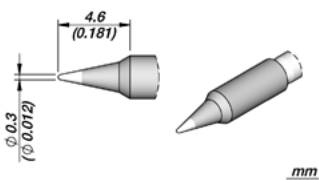
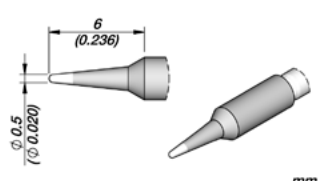
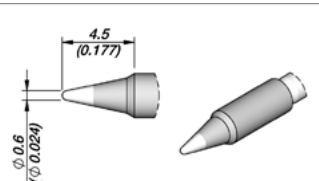
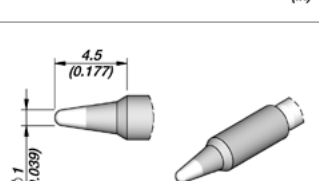
C120 Cartridge Range
for **PA120** and **AM120** Micro Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C120001	Conical Bent Cartridge Ø 0.2 mm Ø 0.008 in		Package 0201, 0402	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120002	Conical Bent Cartridge Ø 0.2 mm Ø 0.008 in		Package 0201, 0402	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120902	Conical Bent Cartridge Ø 0.3 mm Ø 0.012 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120006	Conical Bent Cartridge Ø 0.5 mm Ø 0.020 in		Package 0603 QFP, IC	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120004	Conical Bent Cartridge Ø 0.7 mm S1 Ø 0.028 in		SMD capacitors QFP, IC Through-hole	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120012	Conical Bent Cartridge Ø 0.7 mm S2 Ø 0.028 in		SMD capacitors QFP, IC Through-hole Tip with an extra tinned surface	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120011	Chisel Bent Cartridge 0.6 x 0.3 mm 0.024 x 0.012 in		Package 0603	Stations: CP, DI, DDE, DME Tools: AM120, PA120


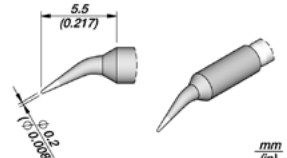
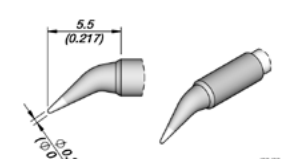
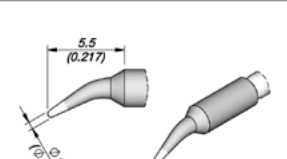
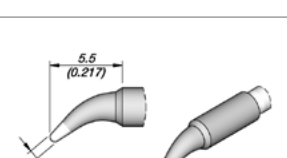

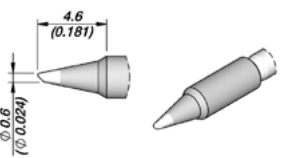
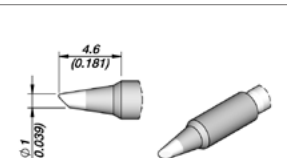
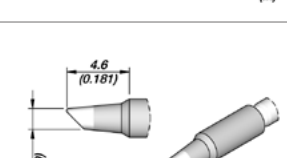
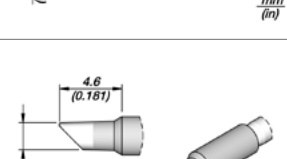
C120 Cartridge Range for PA120 and AM120 Micro Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C120013	Blade Cartridge 2 mm 0.079 in		LED SMD 2727, 1921, 1415	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120003	Blade Cartridge 3 mm 0.118 in		Package 1210, 1812 SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120007	Blade Cartridge 3.5 mm Right 0.138 in		Package 1210, 1812 SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120008	Blade Cartridge 3.5 mm Left 0.138 in		Package 1210, 1812 SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120005	Blade Cartridge 5 mm 0.197 in		SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120009	Blade Cartridge 6 mm Right 0.236 in		SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120010	Blade Cartridge 6 mm Left 0.236 in		SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120


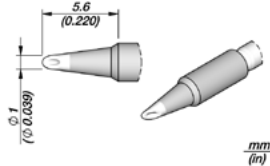
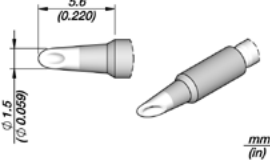
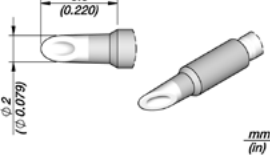

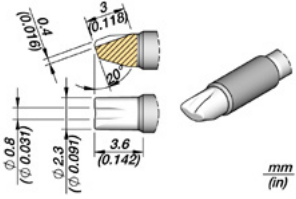

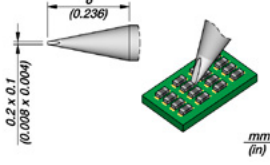
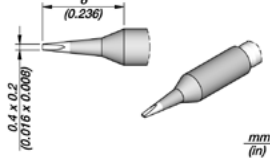
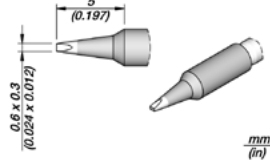
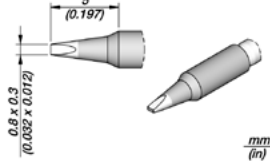
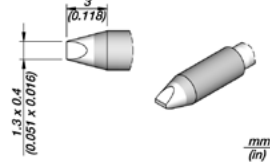
C210 Cartridge Range
for **T210** Precision Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C210020	Conical Cartridge Ø 0.1 mm Ø 0.004 in		Package 01005, 0201 Very fine pitch 0.4 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210009	Conical Cartridge Ø 0.2 mm Ø 0.008 in		Package 01005, 0201 Very fine pitch 0.4mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210016	Conical Cartridge Ø 0.3 mm S1 Ø 0.012 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210001	Conical Cartridge Ø 0.3 mm S2 Ø 0.012 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210013	Conical Cartridge Ø 0.5 mm Ø 0.020 in		Package 0603 QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210003	Conical Cartridge Ø 0.6 mm Ø 0.024 in		General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210005	Conical Cartridge Ø 1 mm Ø 0.039 in		General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N


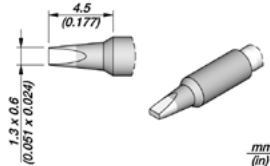
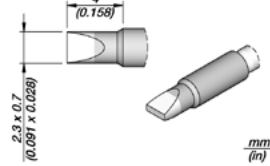

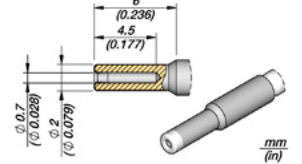
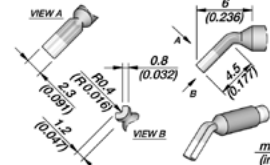
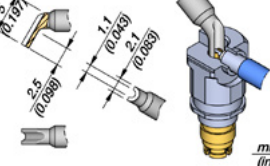
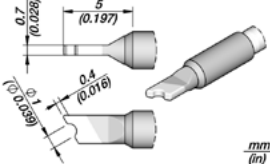

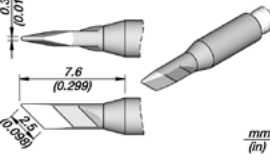
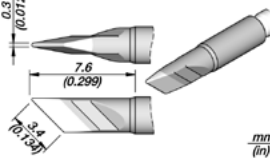

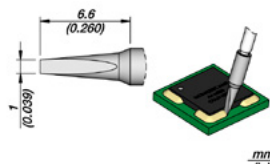
C210 Cartridge Range for T210 Precision Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C210002	Conical Bent Cartridge Ø 0.2 mm Ø 0.008 in		Package 0201, 0402	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210010	Conical Bent Cartridge Ø 0.3 mm Ø 0.012 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210014	Conical Bent Cartridge Ø 0.5 mm Ø 0.020 in		Package 0603 QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210004	Conical Bent Cartridge Ø 0.7 mm Ø 0.028 in		General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210036	Bevel Cartridge Ø 0.6 mm Ø 0.024 in		Drag Soldering General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210006	Bevel Cartridge Ø 1 mm Ø 0.039 in		Drag Soldering General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210027	Bevel Cartridge Ø 1.5 mm Ø 0.059 in		Drag Soldering General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210031	Bevel Cartridge Ø 2 mm Ø 0.079 in		Drag Soldering General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N


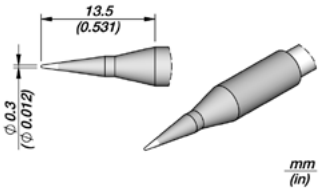
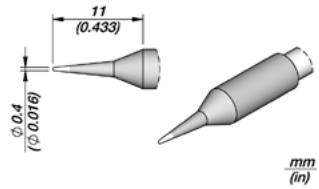
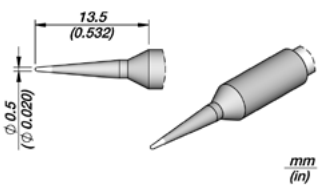
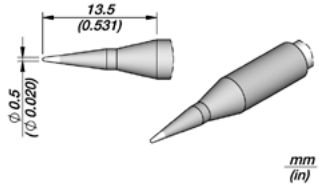
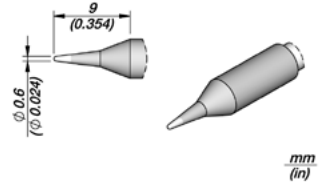
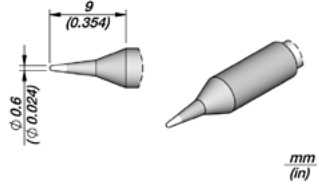
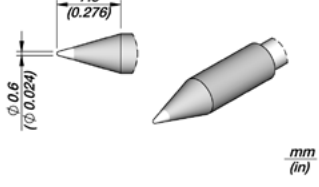
C210 Cartridge Range for T210 Precision Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C210028	Spoon Cartridge Ø 1 mm Ø 0.039 in		Drag soldering	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210029	Spoon Cartridge Ø 1.5 mm Ø 0.059 in		Drag soldering	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210030	Spoon Cartridge Ø 2 mm Ø 0.079 in		Drag soldering	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210038	Barrell Cartridge Ø 8 mm Ø 0.031 in		Through- hole Cable soldering / desoldering	Stations: CDS, CDES, DI, DDE, DME Tools: T210 handles
	C210019	Chisel Cartridge 0.2 x 0.1 mm 0.008 x 0.004 in		Package 01005, 0201 Very fine pitch 0.4 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210023	Chisel Cartridge 0.4 x 0.2 mm 0.016 x 0.008 in		Package 0402 Very fine pitch 0.65 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210021	Chisel Cartridge 0.6 x 0.3 mm 0.024 x 0.012 in		Package 0603	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210024	Chisel Cartridge 0.8 x 0.3 mm 0.032 x 0.012 in		Package 0805 Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210022	Chisel Cartridge 1.3 x 0.4 mm 0.051 x 0.016 in		Package 0805 Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N

C210 Cartridge Range for T210 Precision Handles


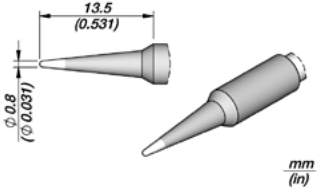
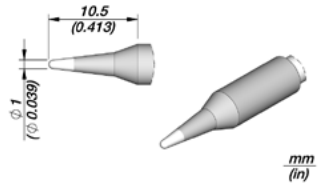
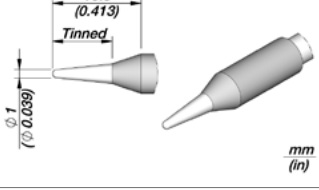
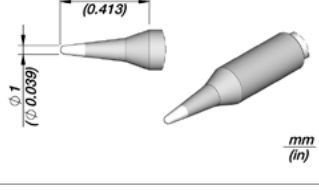
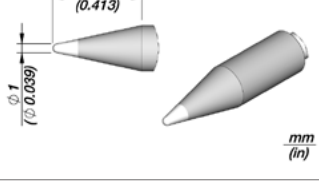
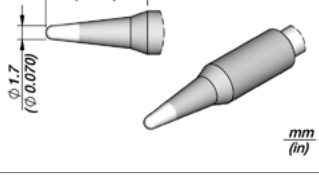
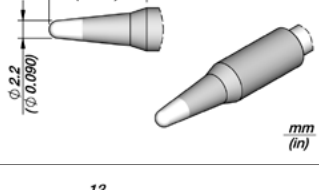
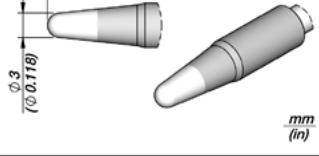
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C210008	Chisel Cartridge 1.3 x 0.6 mm 0.051 x 0.024 in		Package 0805 Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210007	Chisel Cartridge 2.3 x 0.7 mm 0.091 x 0.028 in		Package 0805 Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210017	Pin Cartridge Ø 0.7 mm Ø 0.028 in		Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210015	Pin/Connector Cartridge Ø 0.8 mm Ø 0.032 in		Through-hole Coaxial connector	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210025	Pin/Connector Cartridge Ø 1.1 mm Ø 0.043 in		Through-hole Coaxial connector	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210012	Pin/Wire Cartridge Ø 1 mm Ø 0.039 in		Cables Connectors	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210033	Knife Cartridge 2.5 x 0.3 mm 0.098 x 0.012 in		Drag soldering SMD SO, SOT Package 1210, 1812, 2010, 2512	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210018	Knife Cartridge 3.4 x 0.3 mm 0.134 x 0.012 in		Drag soldering SMD SO, SOT Package 1210, 1812, 2010, 2512	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210034	Conformal Coating Removal Steel Cartridge 1 x 0.1 mm 0.039 x 0.004 in		Stainless Steel Remove underfill encapsulants	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N

C245 Cartridge Range
for T245 General Purpose Handles


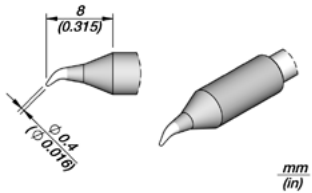
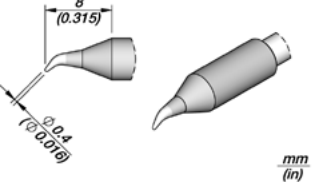
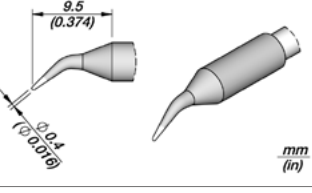
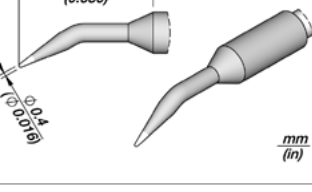
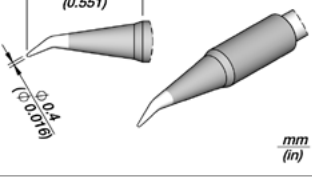
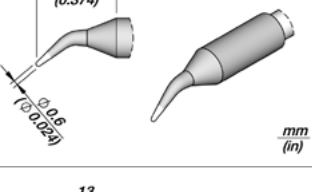
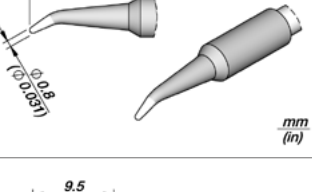
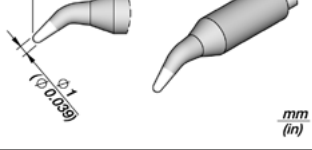
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245030	Conical Cartridge Ø 0.3 mm Ø 0.012 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245032	Conical Cartridge Ø 0.4 mm Ø 0.016 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245036	Conical Cartridge Ø 0.5 mm S1 Ø 0.020 in		Package 0603 QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245930	Conical Cartridge Ø 0.5 mm S2 Ø 0.020 in		Package 0603 QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245001	Conical Cartridge Ø 0.6 mm Ø 0.024 in		Package 0603 QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245201	Conical Cartridge Ø 0.6 mm L Ø 0.024 in		Package 0603 QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245937	Conical Cartridge Ø 0.6 mm HT Ø 0.024 in		Package 0603 QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N




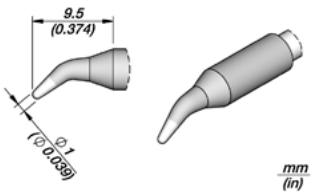
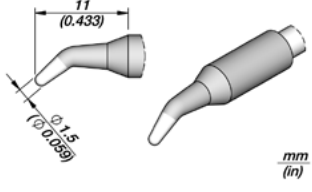
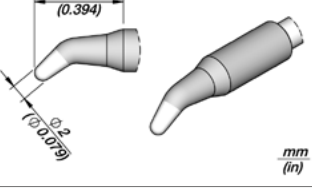
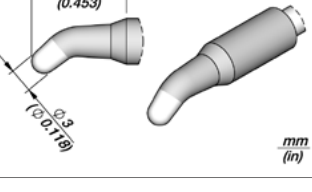
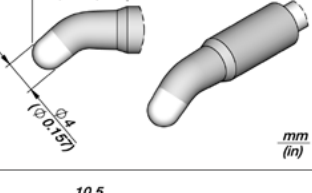

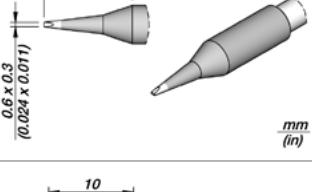
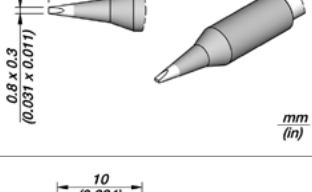
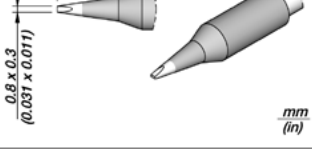
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245957	Conical Cartridge Ø 0.8 mm Ø 0.031 in		Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245903	Conical Cartridge Ø 1 mm S1 Ø 0.040 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245041	Conical Cartridge Ø 1 mm S2 Ø 0.040 in		General use Tip with an extra tinned surface	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245803	Conical Cartridge Ø 1 mm L Ø 0.040 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245403	Conical Cartridge Ø 1 HT mm Ø 0.040 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245943	Conical Cartridge Ø 1.7 mm Ø 0.070 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245933	Conical Cartridge Ø 2.2 mm Ø 0.090 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245107	Conical Cartridge Ø 3 mm HT Ø 0.118 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


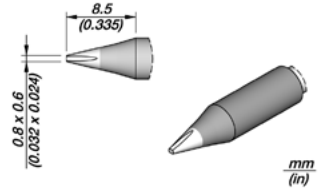
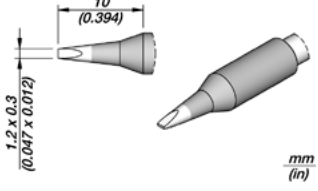
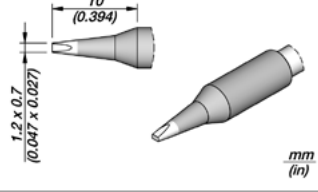
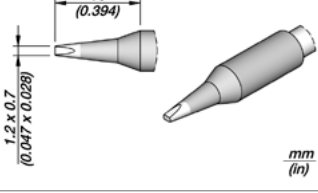
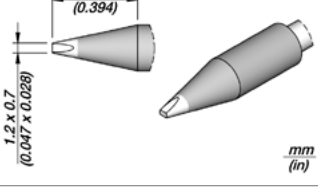
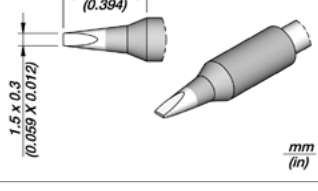
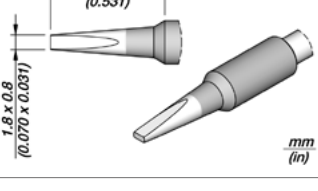
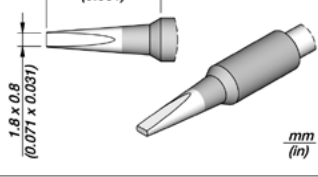
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245034	Conical Bent Cartridge Ø 0.4 mm S1 Ø 0.016 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245234	Conical Bent Cartridge Ø 0.4 mm S1 L Ø 0.016 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245029	Conical Bent Cartridge Ø 0.4 mm S2 Ø 0.016 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245126	Conical Bent Cartridge Ø 0.4 mm S3 Ø 0.016 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245786	Conical Bent Cartridge Ø 0.4 mm S4 Ø 0.016 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245929	Conical Bent Cartridge Ø 0.6 mm Ø 0.024 in		Package 0603 QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245935	Conical Bent Cartridge Ø 0.8 mm Ø 0.031 in		Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245904	Conical Bent Cartridge Ø 1 mm Ø 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


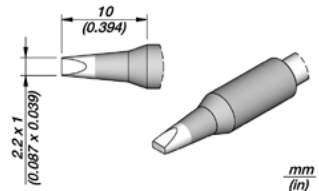
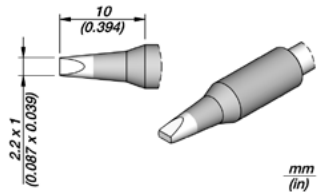
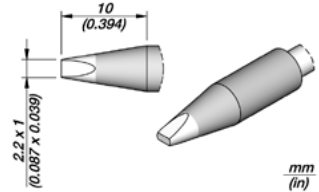
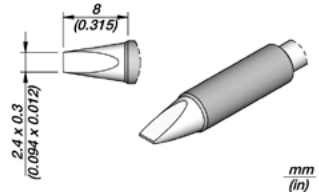
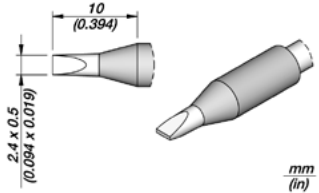
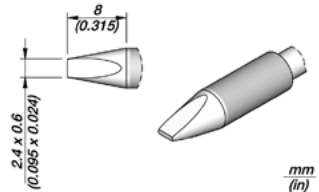
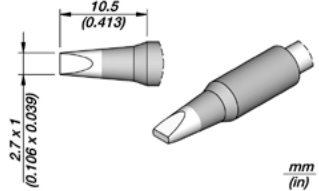
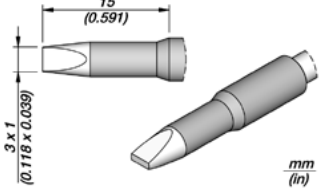
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245804	Conical Bent Cartridge Ø 1 mm L Ø 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245259	Conical Bent Cartridge Ø 1.5 mm Ø 0.059 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245260	Conical Bent Cartridge Ø 2 mm HT Ø 0.079 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245627	Conical Bent Cartridge Ø 3 mm Ø 0.118 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245628	Conical Bent Cartridge Ø 4 mm HT Ø 0.157 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245731	Chisel Cartridge 0.6 x 0.3 mm 0.024 x 0.011 in		Package 0603	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245773	Chisel Cartridge 0.8 x 0.3 mm 0.031 x 0.011 in		Package 0805 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245673	Chisel Cartridge 0.8 x 0.3 mm L 0.031 x 0.011 in		Package 0805 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


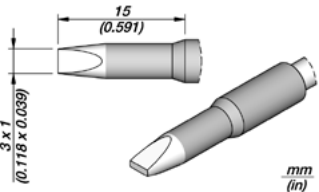
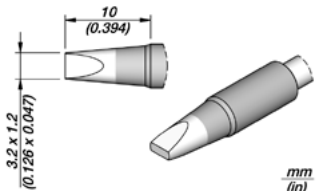
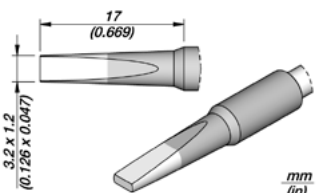
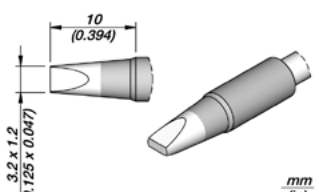
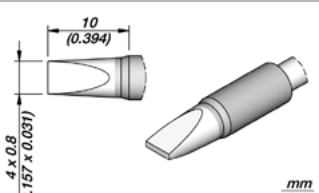
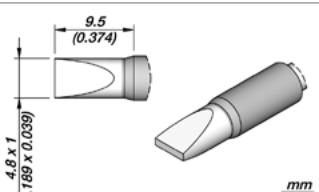
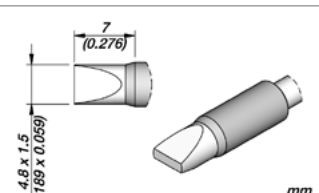
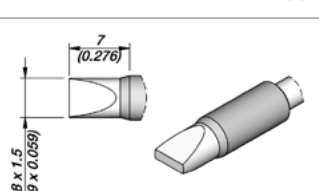
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245742	Chisel Cartridge 0.8 x 0.6 mm HT 0.032 x 0.024 in		Package 0805 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245774	Chisel Cartridge 1.2 x 0.3 mm 0.047 x 0.012 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245906	Chisel Cartridge 1.2 x 0.7 mm 0.047 x 0.027 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245806	Chisel Cartridge 1.2 x 0.7 mm L 0.047 x 0.028 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245406	Chisel Cartridge 1.2 x 0.7 mm HT 0.047 x 0.028 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245768	Chisel Cartridge 1.5 x 0.3 mm 0.059 x 0.012 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245944	Chisel Cartridge 1.8 x 0.8 mm 0.070 x 0.031 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245844	Chisel Cartridge 1.8 x 0.8 mm L 0.071 x 0.031 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


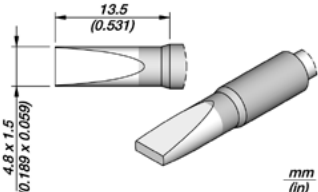
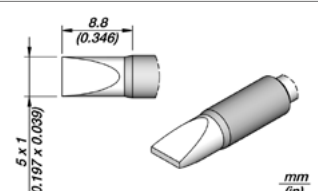
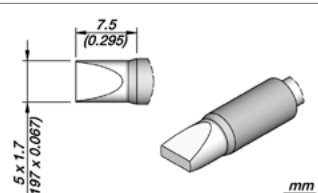
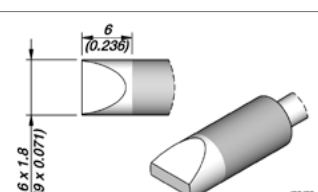
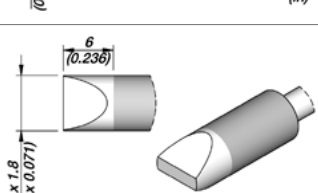
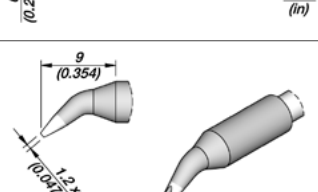

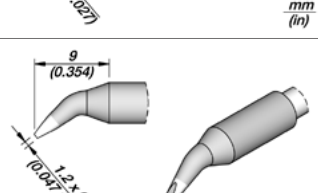
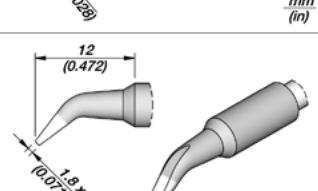
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245907	Chisel Cartridge 2.2 x 1 mm 0.087 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245807	Chisel Cartridge 2.2 x 1 mm L 0.087 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245407	Chisel Cartridge 2.2 x 1 mm HT 0.087 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245770	Chisel Cartridge 2.4 x 0.3 mm 0.094 x 0.012 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245759	Chisel Cartridge 2.4 x 0.5 mm HT 0.094 x 0.019 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245741	Chisel Cartridge 2.4 x 0.6 mm HT 0.095 x 0.024 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245729	Chisel Cartridge 2.7 x 1 mm 0.106 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245061	Chisel Cartridge 3 x 1 mm 0.118 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


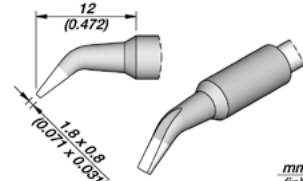
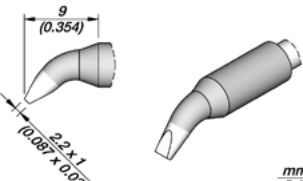
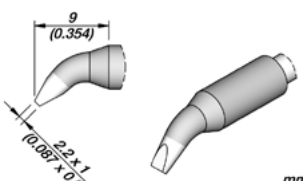
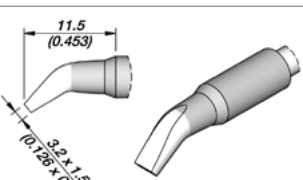
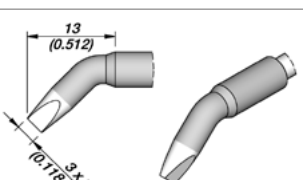

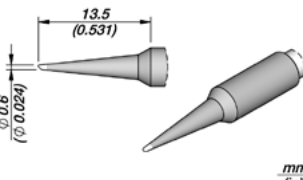
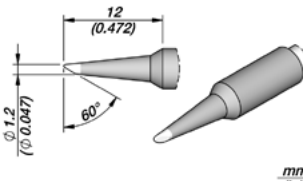
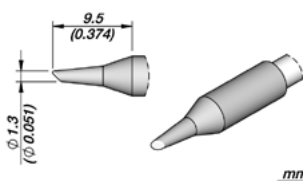
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245261	Chisel Cartridge 3 x 1 mm L 0.118 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245911	Chisel Cartridge 3.2 x 1.2 mm 0.126 x 0.047 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245775	Chisel Cartridge 3.2 x 1.2 mm S1 0.126 x 0.047 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245811	Chisel Cartridge 3.2 x 1.2 mm L 0.125 x 0.047 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245755	Chisel Cartridge 4 x 0.8 mm HT 0.157 x 0.031 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245756	Chisel Cartridge 4.8 x 1 mm HT 0.189 x 0.374 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245908	Chisel Cartridge 4.8 x 1.5 mm HT S1 0.189 x 0.059 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245808	Chisel Cartridge 4.8 x 1.5 mm HT L 0.189 x 0.059 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


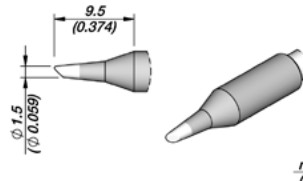
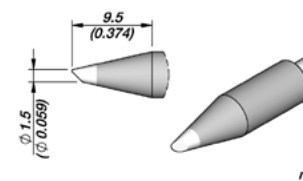
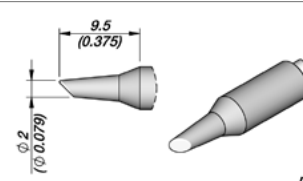
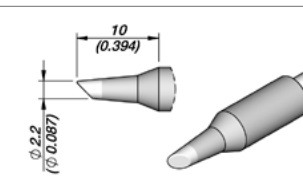
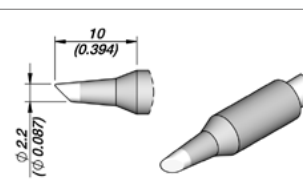

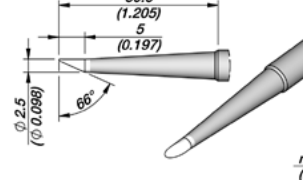
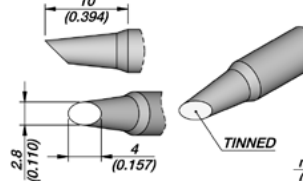
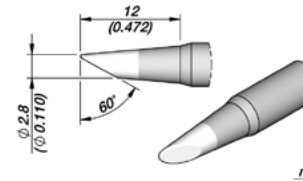
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245708	Chisel Cartridge 4.8 x 1.5 mm HT S2 0.189 x 0.059 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245967	Chisel Cartridge 5 x 1 mm HT 0.197 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245069	Chisel Cartridge 5 x 1.7 mm HT 0.197 x 0.067 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245966	Chisel Cartridge 6.6 x 1.8 mm HT 0.259 x 0.071 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245866	Chisel Cartridge 6.6 x 1.8 mm HT L 0.259 x 0.071 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245962	Chisel Bent Cartridge 1.2 x 0.7 mm 0.047 x 0.027 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245862	Chisel Bent Cartridge 1.2 x 0.7 mm L 0.047 x 0.028 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245963	Chisel Bent Cartridge 1.8 x 0.8 mm 0.071 x 0.031 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


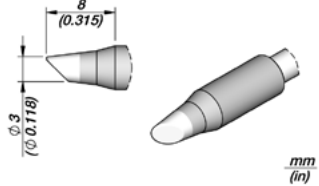
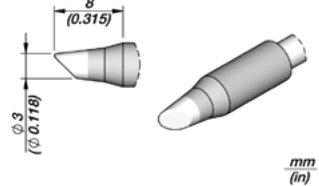
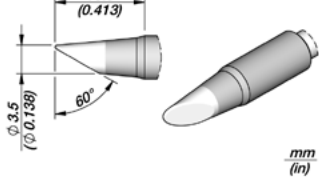
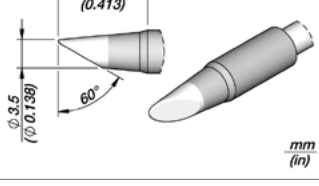
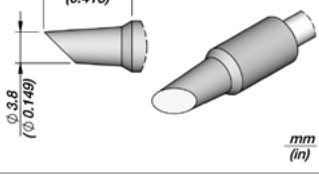
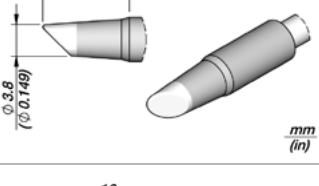
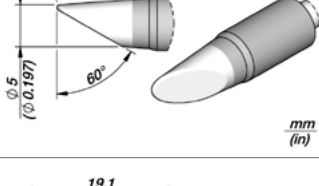
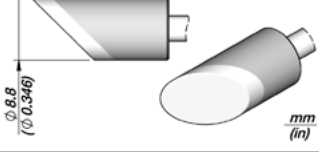
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245863	Chisel Bent Cartridge 1.8 x 0.8 mm L 0.071 x 0.031 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245946	Chisel Bent Cartridge 2.2 x 1 mm 0.087 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245846	Chisel Bent Cartridge 2.2 x 1 mm L 0.087 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245732	Chisel Bent Cartridge 3.2 x 1.5 mm 0.126 x 0.059 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245761	Chisel Bent Cartridge 3 x 1 mm 0.118 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245747	Bevel Cartridge Ø 0.6 mm Ø 0.024 in		Package 0603 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245710	Bevel Cartridge Ø 1.2 mm Ø 0.047 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245064	Bevel Cartridge Ø 1.3 mm Ø 0.051 in		Drag soldering Through-hole Hoof tip with reduced tinned surface, ideal for touch-up	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


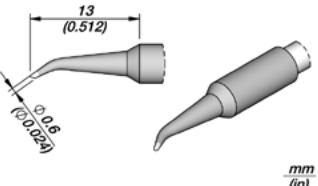
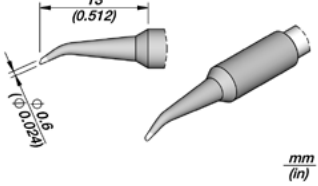

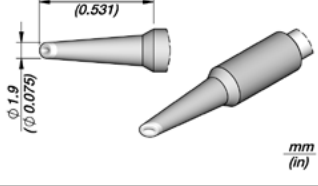
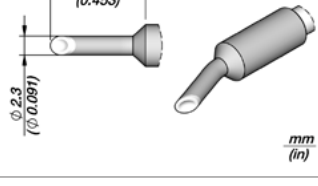
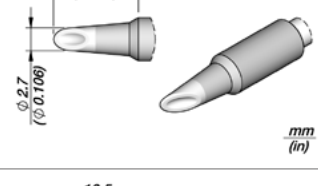
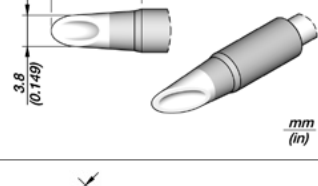

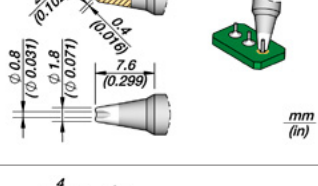
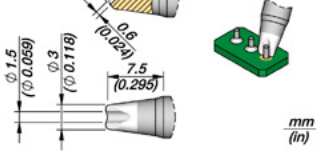
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245905	Bevel Cartridge Ø 1.5 mm Ø 0.059 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245405	Bevel Cartridge Ø 1.5 mm HT Ø 0.059 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245102	Bevel Cartridge Ø 2 mm Ø 0.079 in		Drag soldering Through-hole Hoof tip with reduced tinned surface, ideal for touch-up	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245945	Bevel Cartridge Ø 2.2 mm Ø 0.087 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245845	Bevel Cartridge Ø 2.2 mm L Ø 0.087 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245795	Bevel Cartridge Ø 2.5 mm L Ø 0.098 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245784	Bevel Cartridge Ø 2.8 mm Ø 0.110 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245793	Bevel Cartridge Ø 2.8 mm - 60° Ø 0.110 in - 60°		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


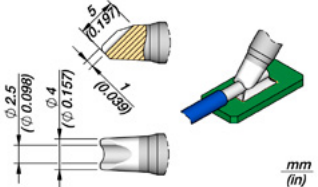
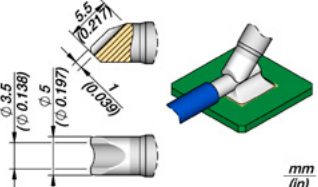

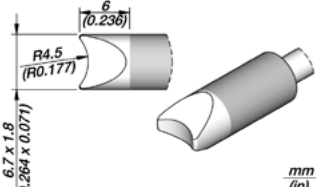
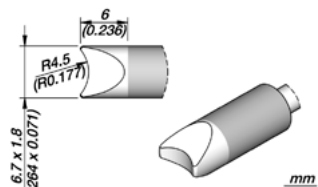

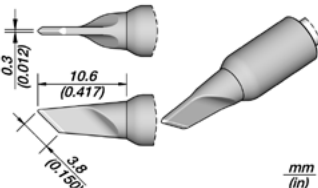
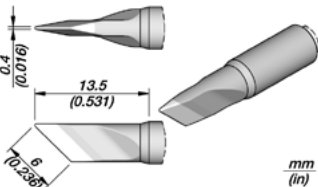
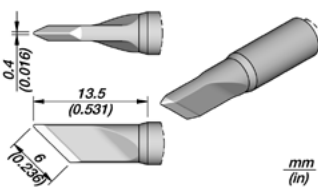
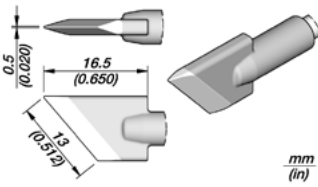
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245912	Bevel Cartridge Ø 3 mm Ø 0.118 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245812	Bevel Cartridge Ø 3 mm L Ø 0.118 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245056	Bevel Cartridge Ø 3.5 mm HT Ø 0.138 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245256	Bevel Cartridge Ø 3.5 mm HT L Ø 0.138 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245797	Bevel Cartridge Ø 3.8 mm Ø 0.149 in		Hoof Tip with reduced tinned surface, ideal for touch-up	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245951	Bevel Cartridge Ø 3.8 mm HT Ø 0.149 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245766	Bevel Cartridge Ø 5 mm Ø 0.197 in		Wide area	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245301	Bevel Cartridge Ø 8 mm Ø 0.346 in		Wide area	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


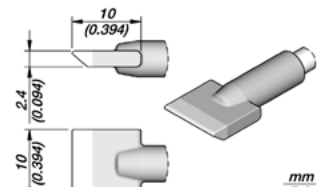
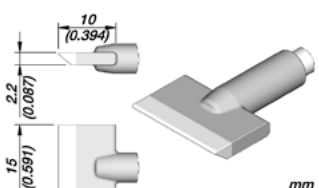
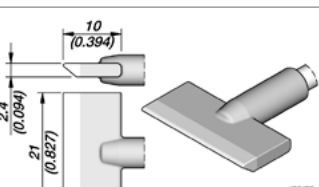
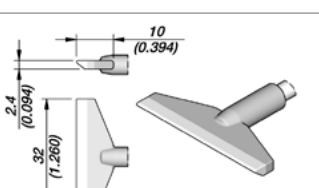
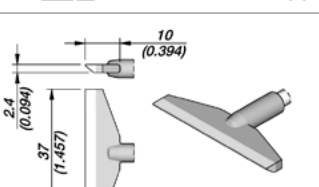
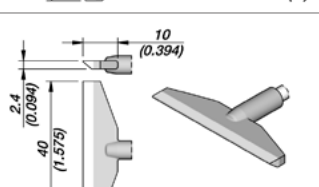
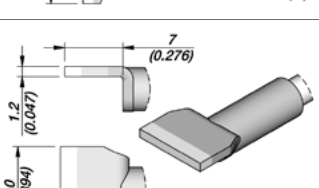
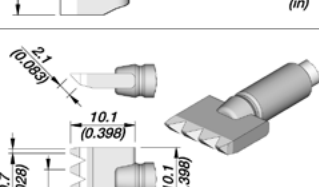
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245748	Bevel Bent Cartridge Ø 0.6 mm S1 Ø 0.024 in		Package 0603 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245749	Bevel Bent Cartridge Ø 0.6 mm S2 Ø 0.024 in		Package 0603 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245965	Spoon Cartridge Ø 1.9 mm Ø 0.075 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245067	Spoon Cartridge Ø 2.3 mm Ø 0.091 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245931	Spoon Cartridge Ø 2.7 mm Ø 0.106 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245938	Spoon Cartridge Ø 3.8 mm Ø 0.149 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245790	Barrel Cartridge Ø 0.8 mm Ø 0.031 in		Through-hole Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245785	Barrel Cartridge Ø 1.5 mm Ø 0.059 in		Through-hole Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


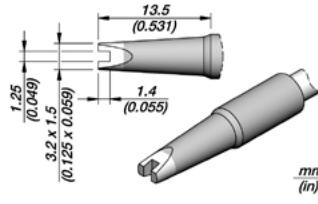
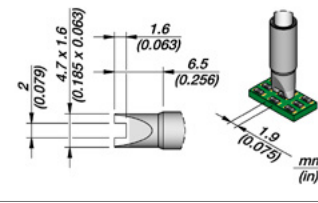
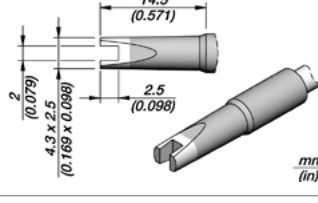
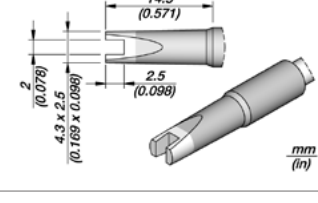
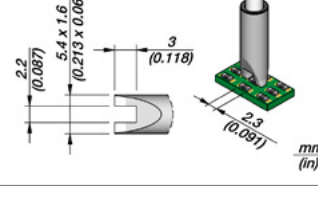
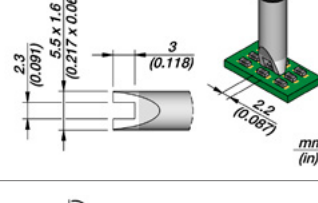
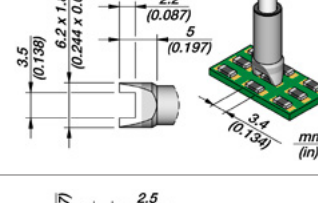
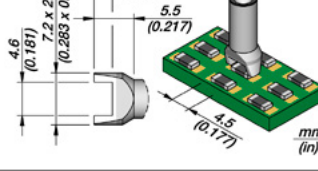
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245763	Barrel Cartridge Ø 2.5 mm Ø 0.098 in		Through-hole Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245760	Barrel Cartridge Ø 3.5 mm Ø 0.138 in		Through-hole Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245762	Round Connector Cartridge R. 4.5 mm R. 0.177 in		Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245662	Round Connector Cartridge R. 4.5 mm L R. 0.177 in		Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245789	Knife Cartridge 3.8 x 0.3 mm 0.150 x 0.012 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245939	Knife Cartridge 6.0 x 0.4 mm 0.236 x 0.016 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245765	Knife Cartridge 6.0 x 0.4 mm S1 0.236 x 0.016 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245955	Knife Cartridge 13 x 0.5 mm 0.512 x 0.020 in		Drag Soldering Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


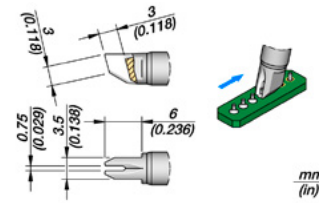
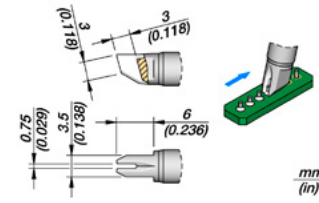
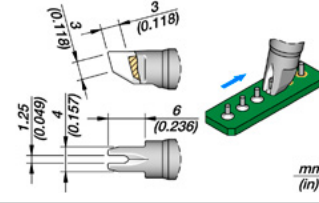
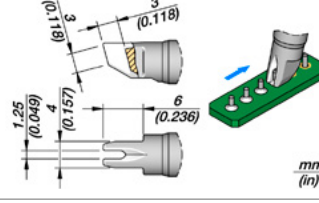
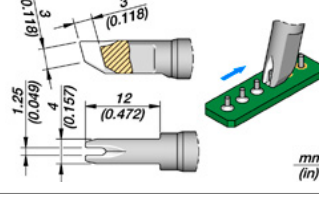
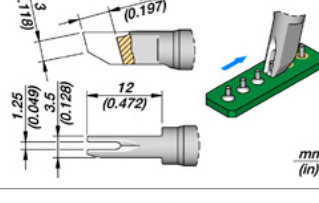
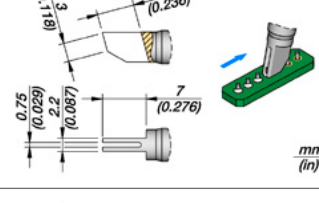

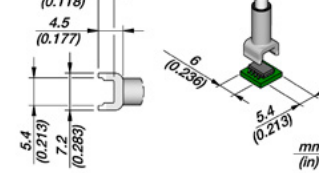
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245914	Blade Cartridge 10 mm S1 0.394 in		Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245752	Blade Cartridge 15 mm 0.591 in		Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245913	Blade Cartridge 21 mm 0.827 in		Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245949	Blade Cartridge 32 mm 1.260 in		Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245776	Blade Cartridge 37 mm 1.457 in		Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245792	Blade Cartridge 40 mm 1.575 in		Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245730	Blade Cartridge 10 mm S2 0.394 in		Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245728	Multipad Blade Cartridge 10.1 mm 0.398 in		Connector sold / desold	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


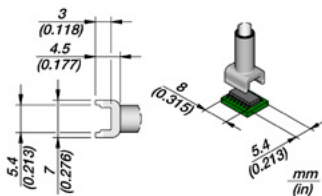
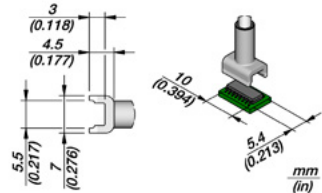
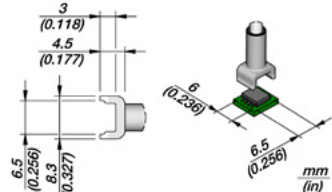
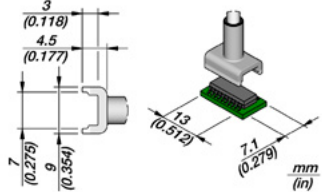
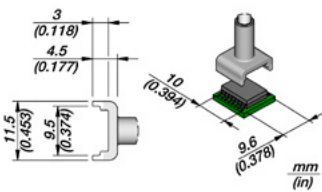
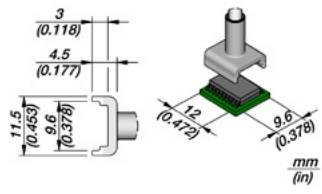
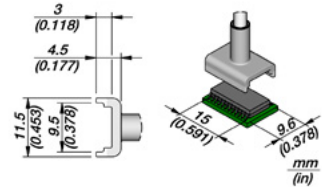
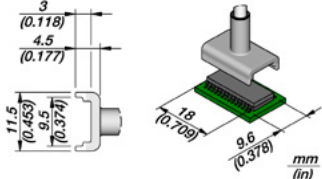
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245757	Chip Cartridge 1.25 mm 0.049 in		SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245016	Chip Cartridge 1.9 mm 0.075 in		SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245758	Chip Cartridge 2 mm 0.079 in		SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245658	Chip Cartridge 2.0 mm L 0.078 in		SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245017	Chip Cartridge 2.3 mm S1 0.091 in		SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245150	Chip Cartridge 2.2 mm S2 0.087 in		SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245018	Chip Cartridge 3.4 mm 0.134 in		SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245019	Chip Cartridge 4.5 mm 0.177 in		SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


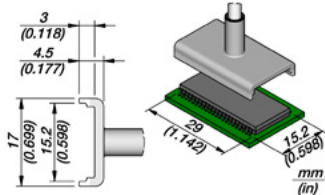
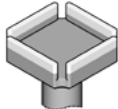
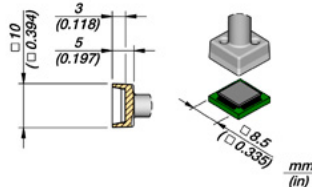
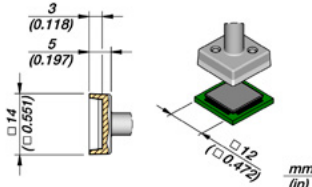
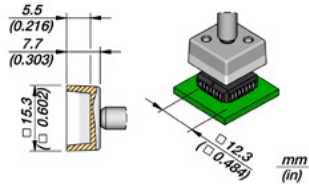
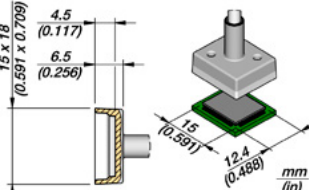
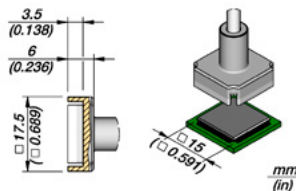
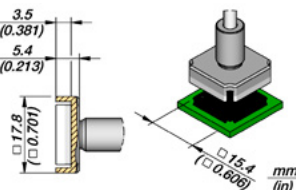
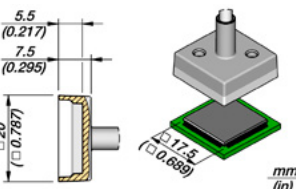
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245754	Drag Cartridge 0.75 mm 0.029 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245654	Drag Cartridge 0.75 mm L 0.029 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245751	Drag Cartridge 1.25 mm 0.049 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245651	Drag Cartridge 1.25 mm L 0.049 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245667	Drag Cartridge 1.25 mm S1 L 0.049 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245669	Drag Cartridge 1.25 mm S2 L 0.049 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245796	Drag Cartridge 2.2 x 0.75 mm 0.087 x 0.029 in		Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245220	Tunnel Cartridge 5.4 x 6 mm 0.213 x 0.236 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


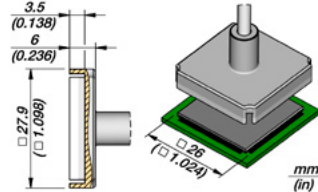
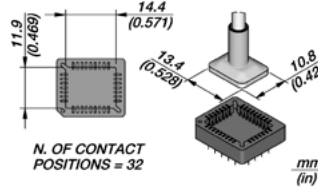
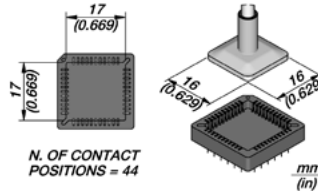

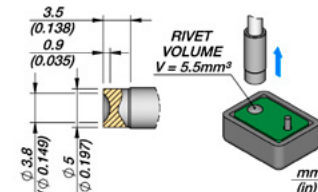
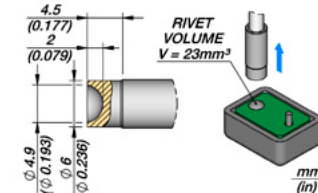
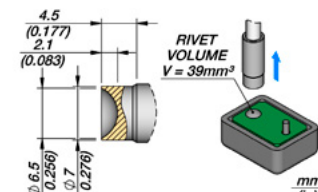
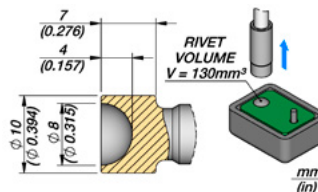
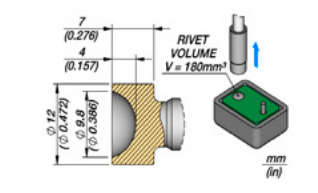
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245250	Tunnel Cartridge 5.4 x 8 mm 0.213 x 0.315 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245221	Tunnel Cartridge 5.4 x 10 mm 0.213 x 0.394 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245303	Tunnel Cartridge 6.5 x 6 mm 0.256 x 0.236 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245222	Tunnel Cartridge 7.1 x 13 mm 0.279 x 0.512 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245306	Tunnel Cartridge 9.6 x 10 mm 0.378 x 0.394 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245305	Tunnel Cartridge 9.6 x 12 mm 0.378 x 0.472 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245304	Tunnel Cartridge 9.6 x 15 mm 0.378 x 0.591 in		Dual in Line, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245215	Tunnel Cartridge 9.6 x 18 mm 0.378 x 0.709 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N	


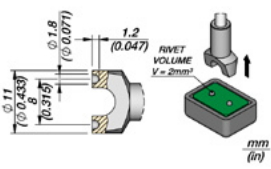
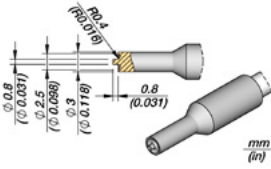
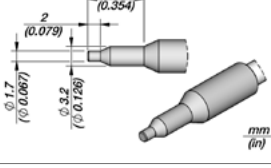
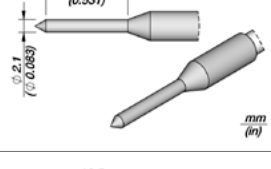
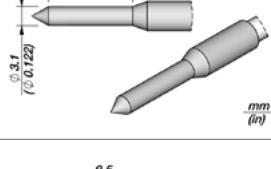
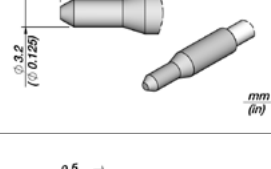
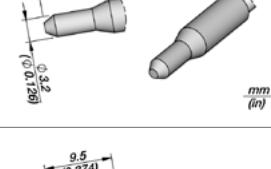
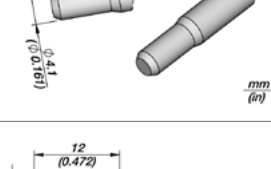
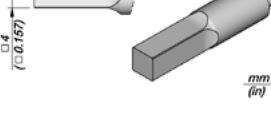
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245226	Tunnel Cartridge 15.2 x 29 mm 0.598 x 1.142 in		Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245223	QFP Cartridge 8.5 x 8.5 mm 0.335 x 0.335 in		QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245224	QFP Cartridge 12 x 12 mm 0.472 x 0.472 in		QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245351	QFP Cartridge 12.3 x 12.3 mm 0.484 x 0.484 in		QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245228	QFP Cartridge 12.4 x 15 mm 0.488 x 0.591 in		QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245315	QFP Cartridge 15 x 15 mm 0.591 x 0.591 in		QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245352	QFP Cartridge 15.4 x 15.4 mm 0.606 x 0.606 in		QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245227	QFP Cartridge 17.5 x 17.5 mm 0.689 x 0.689 in		QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


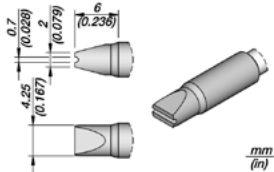
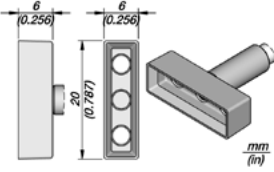

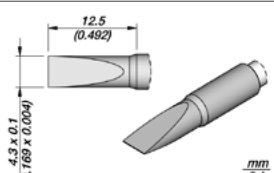

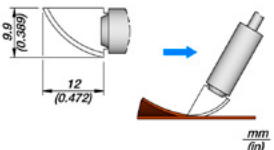
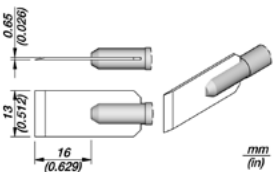

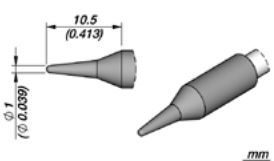
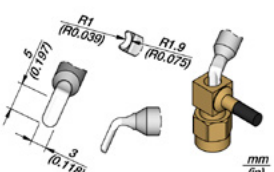
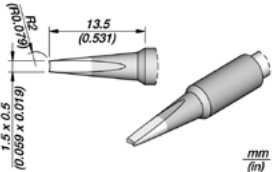
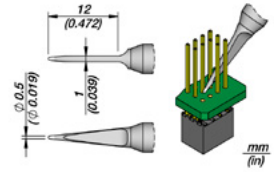
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245344	QFP Cartridge 26 x 26 mm 1.024 x 1.024 in		QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245248	Socket Cartridge 11.9 x 14.4 mm 0.469 x 0.571 in		PLCC sockets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245247	Socket Cartridge 17 x 17 mm 0.669 x 0.669 in		PLCC sockets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245053	Heat Staking Cartridge Ø 3.8 mm Ø 0.149 in		Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245052	Heat Staking Cartridge Ø 4.9 mm Ø 0.193 in		Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245054	Heat Staking Cartridge Ø 6.5 mm Ø 0.256 in		Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245798	Heat Staking Cartridge Ø 8 mm Ø 0.315 in		Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245791	Heat Staking Cartridge Ø 9.8 mm Ø 0.386 in		Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N


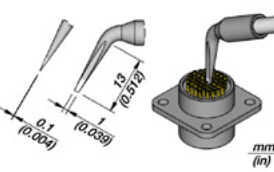
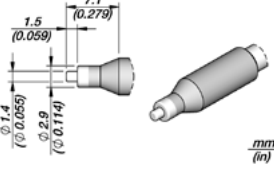
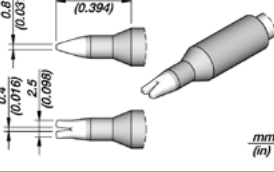
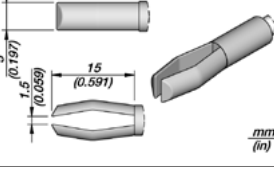
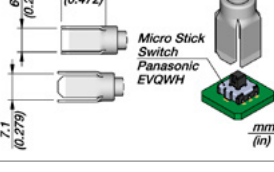
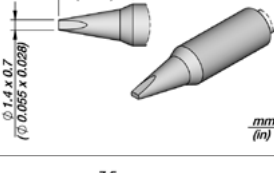
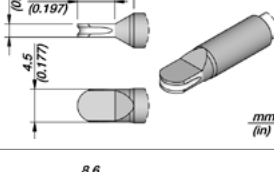
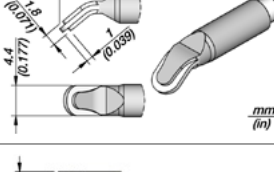

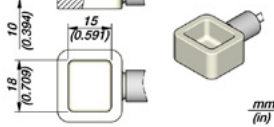
C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245143	Double Heat Staking Cartridge Ø 1.8 mm Ø 0.071 in		Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245163	Hollow Heat Staking Cartridge Ø 2.5 mm Ø 0.098 in		Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245166	Plastics Inox. Cartridge Ø 1.7 mm Ø 0.067 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245167	Thermal Hole-Punch Cartridge for Plastic Ø 2.1 mm Ø 0.083 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245168	Thermal Hole-Punch Cartridge for Plastic Ø 3.1 mm Ø 0.122 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245688	Heat Staking Bend Cartridge Ø 3.2 mm Ø 0.125 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245312	Heat Staking Cartridge Ø 3.2 mm Ø 0.126 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245313	Cartridge for Plastics Ø 4.1 mm Ø 0.161 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245123	Cartridge for Plastics 4 x 4 mm 0.157 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

C245 Cartridge Range for T245 General Purpose Handles


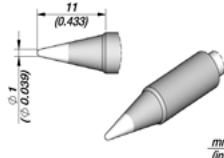

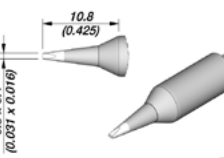
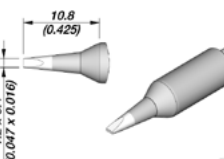
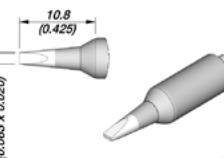
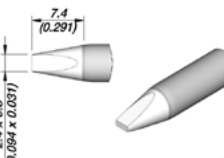
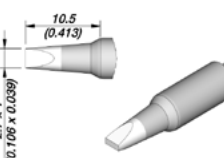
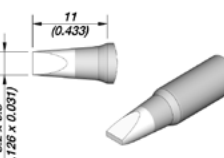
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	C245124	Cartridge for Plastics 4.25 x 2 mm 0.167 x 0.079 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245311	Cartridge for Plastics 20 x 6 mm 0.787 x 0.256 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245109	Conformal Coating Removal Cartridge 4.3 x 0.1 mm 0.169 x 0.004 in		Remove underfill encapsulants	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245138	Cutter Cartridge 12 mm 0.472 in		Plastic Rubber cutter	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245121	Cutter Cartridge 13 mm 0.512 in		Plastic Rubber cutter	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245119	Conical Teflon Cartridge Ø 1 mm Ø 0.039 in		Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245116	Pin/Connector Cartridge R. 1 mm R. 0.039 in		Through-hole Coaxial connector	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245122	Pin/Connector Cartridge 1.5 x 0.5 mm 0.059 x 0.019 in		Cylinder parts	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245764	Fine Pitch Cartridge Ø 0.5 mm Ø 0.019 in		Package 0603 QFP, IC Fine pitch	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

C245 Cartridge Range for T245 General Purpose Handles


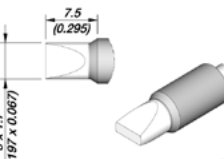
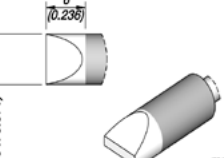

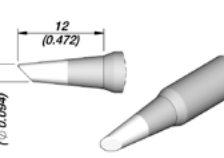
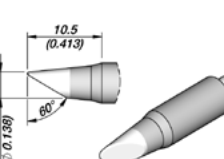

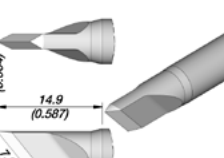
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245771	Bent Cartridge 1 x 0.1 mm 0.039 x 0.004 in		Cable soldering to connector Fine pitch	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245117	Flat Cartridge Ø 1.4 mm Ø 0.055 in		Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245118	Pin/Wire Cartridge 0.4 mm 0.016 in		Through-hole Wire tinning	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245268	Pin/Wire Cartridge 1.5 mm 0.059 in		Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245136	Micro Stick Switch Cartridge 7.1 x 6.5 mm 0.279 x 0.256 in		Micro Stick desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245772	Nickel Cartridge Ø 1.4 x 0.7 mm S1 Ø 0.055 x 0.028 in		HMP Soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245009	S-Lead Cartridge 4.5 x 1.8 mm 0.177 x 0.071 in		Drag Soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245010	J-Lead Cartridge 4.4 x 1.8 mm 0.177 x 0.071 in		Drag Soldering J-lead	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245SP01	Solder Pot Cartridge 15 x 18 mm 0.591 x 0.709 in		Tinning wires, Desoldering and Through-hole Multipin components	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



C245E Extended Tip Life Cartridge Range
for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245736E	Conical Cartridge Ø 1 mm Ø 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245159E	Chisel Cartridge 0.8 x 0.4 mm 0.031 x 0.016 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245158E	Chisel Cartridge 1.2 x 0.4 mm 0.047 x 0.016 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245160E	Chisel Cartridge 1.6 x 0.5 mm 0.063 x 0.020 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245155E	Chisel Cartridge 2.4 x 0.8 mm 0.094 x 0.031 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245735E	Chisel Cartridge 2.7 x 1 mm 0.106 x 0.039 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245161E	Chisel Cartridge 3.2 x 0.8 mm 0.126 x 0.031 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

C245E Extended Tip Life Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245070E	Chisel Cartridge 5 x 1.7 mm 0.197 x 0.067 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245968E	Chisel Cartridge 6.6 x 1.8 mm 0.260 x 0.071 in		General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245156E	Bevel Cartridge Ø 2.4 mm Ø 0.094 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245354E	Bevel Cartridge Ø 3.5 mm L Ø 0.138 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245157E	Knife Cartridge 7.2 mm 0.283 in		Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N




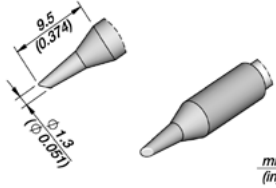
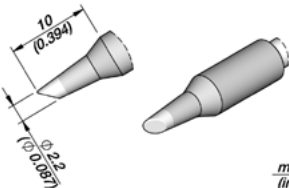
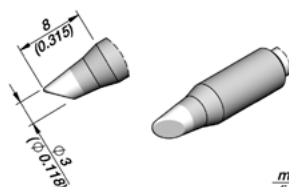
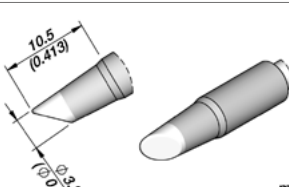
C250 Cartridge Range
for **ALE250** Auto-Feed Iron and **AP250** Solder Feed Iron

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C250420	Conical Bent Cartridge Ø 0.4 mm Ø 0.016 in		Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: ALE, CA Tools: ALE250, AP250
	C250401	Conical Bent Cartridge Ø 0.6 mm Ø 0.023 in		Package 0603 QFP, IC	Stations: ALE, CA Tools: ALE250, AP250
	C250402	Conical Bent Cartridge Ø 0.8 mm Ø 0.031 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250403	Conical Bent Cartridge Ø 1 mm Ø 0.039 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250409	Conical Bent Cartridge Ø 1.7 mm Ø 0.067 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250410	Conical Bent Cartridge Ø 2.2 mm Ø 0.087 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250404	Chisel Bent Cartridge 1.2 x 0.7 mm 0.047 x 0.028 in		General use	Stations: ALE, CA Tools: ALE250, AP250

C250 Cartridge Range for **ALE250** Auto-Feed Iron and **AP250** Solder Feed Iron

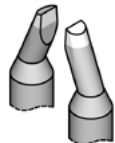
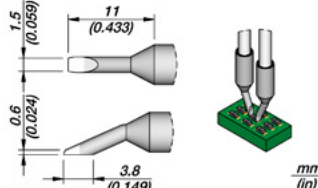
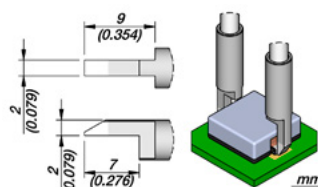
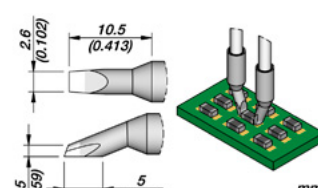
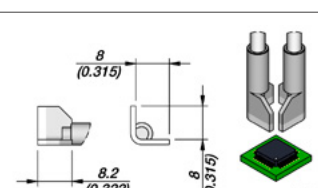

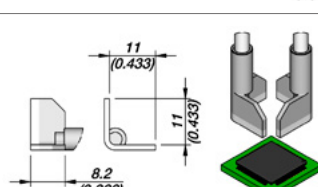
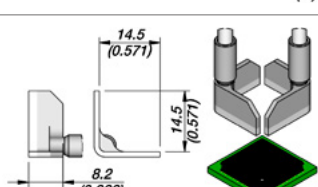
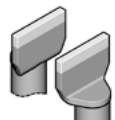
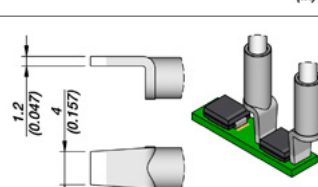
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C250405	Chisel Bent Cartridge 1.8 x 0.8 mm 0.071 x 0.032 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250406	Chisel Bent Cartridge 2.2 x 1 mm 0.087 x 0.039 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250418	Chisel Bent Cartridge 3.2 x 1.5 mm 0.126 x 0.059 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250412	Chisel Bent Cartridge 4.8 x 1.5 mm 0.189 x 0.059 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250407	Chisel Cartridge 1.2 x 0.7 mm 0.047 x 0.028 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250408	Chisel Cartridge 2.2 x 1 mm S1 0.087 x 0.039 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250413	Chisel Cartridge 2.2 x 1 mm S2 0.087 x 0.039 in		General use	Stations: ALE, CA Tools: ALE250, AP250
	C250411	Chisel Cartridge 4.8 x 1.5 mm 0.189 x 0.059 in		General use	Stations: ALE, CA Tools: ALE250, AP250

C250 Cartridge Range for ALE250 Auto-Feed Iron and AP250 Solder Feed Iron

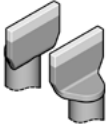
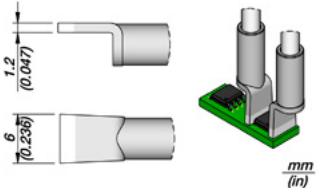
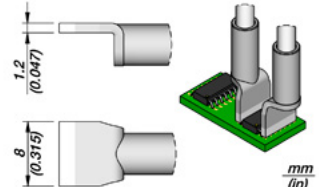
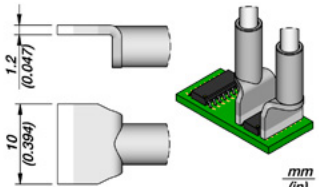
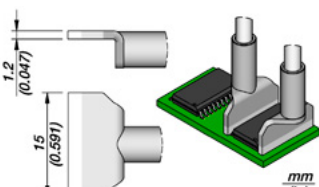
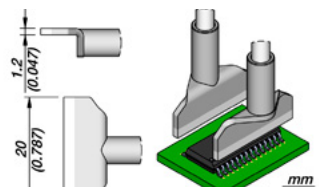
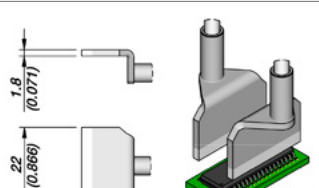
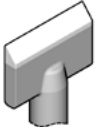
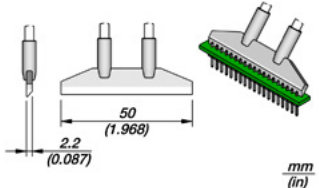
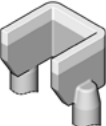
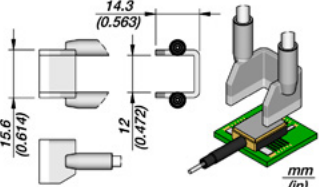
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C250426	Bevel Cartridge Ø 1.3 mm Ø 0.051 in		Drag soldering Through-hole	Stations: ALE, CA Tools: ALE250, AP250
	C250414	Bevel Cartridge Ø 2.2 mm Ø 0.087 in		Drag soldering Through-hole	Stations: ALE, CA Tools: ALE250, AP250
	C250424	Bevel Cartridge Ø 3 mm Ø 0.118 in		Drag soldering Through-hole	Stations: ALE, CA Tools: ALE250, AP250
	C250415	Bevel Cartridge Ø 3.8 mm Ø 0.149 in		Drag soldering Through-hole	Stations: ALE, CA Tools: ALE250, AP250

C420 Cartridge Range
for AT420 and HT420 Thermal Tweezers


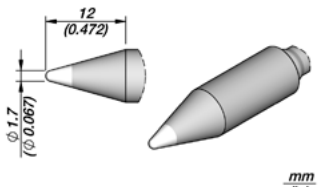

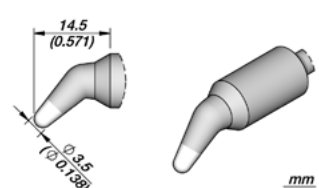

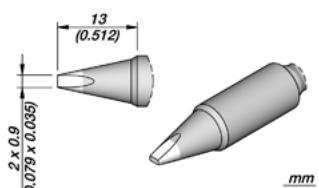
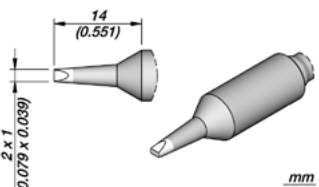
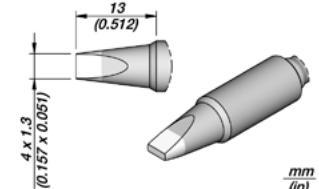
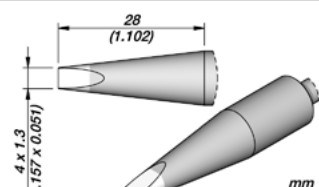
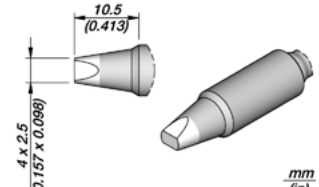


	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C420271	Chip Cartridge 1.5 mm 0.059 in		SMD resistors SMD capacitors	Stations: DI, DDE, DME Tools: AT420, HT420
	C420287	Chip Cartridge 2 mm 0.079 in		Customized	Stations: DI, DDE, DME Tools: AT420, HT420
	C420272	Chip Cartridge 2.6 mm 0.102 in		SMD resistors SMD capacitors	Stations: DI, DDE, DME Tools: AT420, HT420
	C420279	QFP Cartridge 8 mm 0.315 in		QFP PLCC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420280	QFP Cartridge 11 mm 0.433 in		QFP PLCC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420288	QFP Cartridge 14.5 mm 0.571 in		QFP PLCC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420273	Blade Cartridge 4 mm 0.157 in		Package 1210, 1812 SO, SOT DIP	Stations: DI, DDE, DME Tools: AT420, HT420

C420 Cartridge Range for AT420 and HT420 Thermal Tweezers


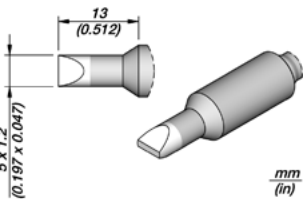
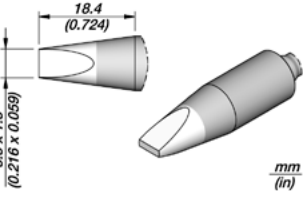
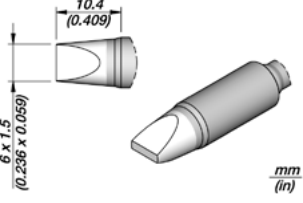
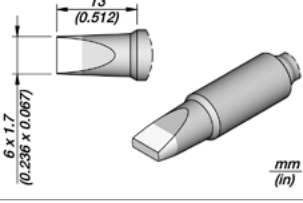
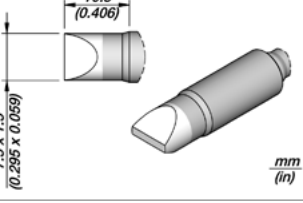
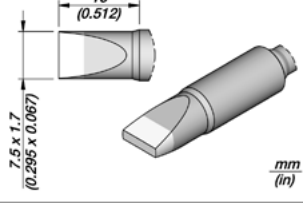
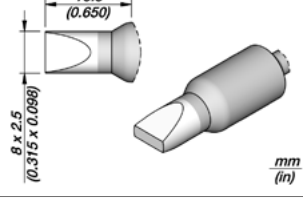
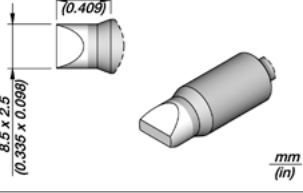
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C420274	Blade Cartridge 6 mm 0.236 in		DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420275	Blade Cartridge 8 mm 0.315 in		DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420276	Blade Cartridge 10 mm 0.394 in		DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420277	Blade Cartridge 15 mm 0.591 in		DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420278	Blade Cartridge 20 mm 0.787 in		DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420285	Blade Cartridge 22 mm 0.866 in		DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
	C420283	Blade Cartridge 50 mm 1.968 in		Pad cleaning Connector desoldering	Stations: DI, DDE, DME Tools: AT420, HT420
	C420286	"U" Shape Cartridge 15.6 x 14.3 mm 0.614 x 0.563 in		Customized	Stations: DI, DDE, DME Tools: AT420, HT420

C470 Cartridge Range
for T470 HD Handles and HT470 HD Thermal Tweezers


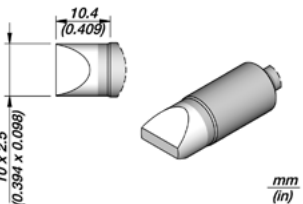
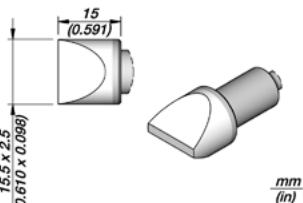
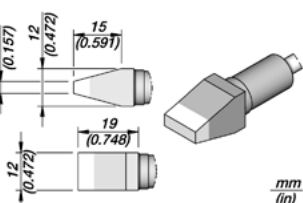
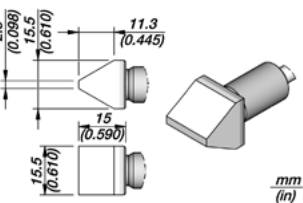
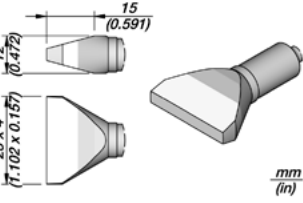
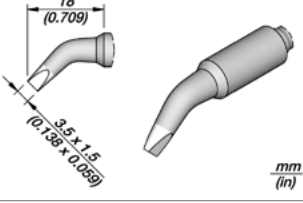

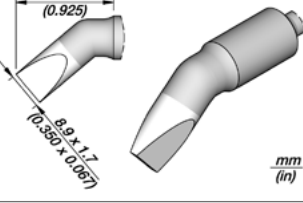
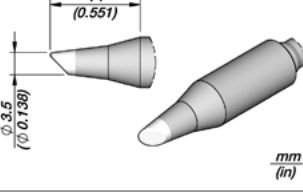
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470001	Conical Cartridge Ø 1.7 mm Ø 0.067 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470008	Conical Bent Cartridge Ø 3.5 mm Ø 0.138 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470013	Chisel Cartridge 2 x 0.9 mm 0.079 x 0.035 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470036	Chisel Cartridge 2 x 1 mm 0.079 x 0.039 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470014	Chisel Cartridge 4 x 1.3 mm S1 0.157 x 0.051 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470040	Chisel Cartridge 4 x 1.3 mm S2 0.157 x 0.051 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470035	Chisel Cartridge 4 x 2.5 mm 0.157 x 0.098 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N




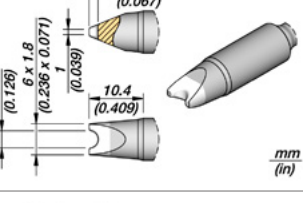
C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470017	Chisel Cartridge 5 x 1.2 mm 0.197 x 0.047 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470009	Chisel Cartridge 5.5 x 1.5 mm 0.216 x 0.059 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470002	Chisel Cartridge 6 x 1.5 mm 0.236 x 0.059 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470015	Chisel Cartridge 6 x 1.7 mm 0.236 x 0.067 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470004	Chisel Cartridge 7.5 x 1.5 mm 0.295 x 0.059 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470016	Chisel Cartridge 7.5 x 1.7 mm 0.295 x 0.067 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470058	Chisel Cartridge 8 x 2.5 mm 0.315 x 0.098 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470039	Chisel Cartridge 8.5 x 2.5 mm 0.335 x 0.098 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N


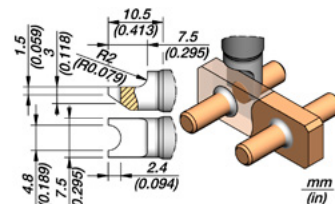
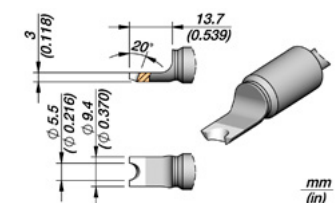

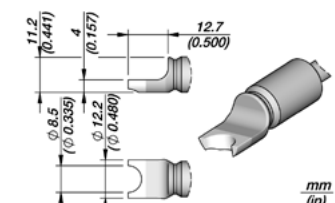
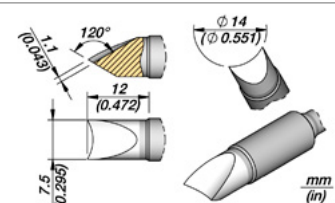

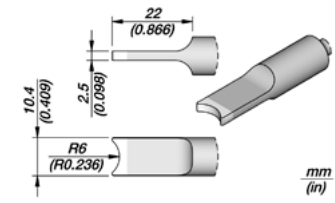
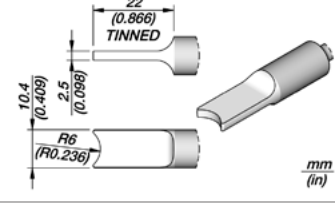

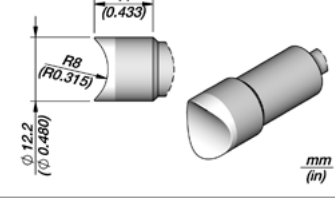
C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470006	Chisel Cartridge 10 x 2.5 mm 0.394 x 0.098 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470007	Chisel Cartridge 15.5 x 2.5 mm 0.610 x 0.098 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470021	Chisel Cartridge 12 x 4 mm 0.472 x 0.157 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470067	Chisel Cartridge 15.5 X 2.5 mm 0.610 x 0.098 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
	C470022	Chisel Cartridge 28 x 4 mm 1.102 x 0.157 in		Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470034	Chisel Bent Cartridge 3.5 x 1.5 mm 0.138 x 0.059 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470018	Chisel Bent Cartridge 8.9 x 1.7 mm 0.350 x 0.067 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470019	Bevel Cartridge Ø 3.5 mm Ø 0.138 in		General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N

C470 Cartridges Range for T470 HD Handles and HT470 HD Thermal Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470003	Bevel Cartridge Ø 7.5 mm Ø 0.295 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470056	Bevel Cartridge Ø 10 mm Ø 0.394 in		Wide area Shield desoldering Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470005	Flat Cartridge Ø 15 mm Ø 0.591 in		Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470044	Flat Cartridge 10 x 15 mm 0.394 x 0.591 in		Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470057	Flat Cartridge 20 x 30 mm 0.787 x 1.181 in		Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470027	Shield Cartridge 43 x 20 mm 1.693 x 0.787 in		Shield desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470031	Pin/Connector Cartridge Ø 3.3 mm Ø 0.126 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470050	Pin/Connector Cartridge Ø 3.8 mm Ø 0.150 in		Cable Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470


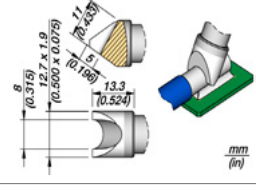
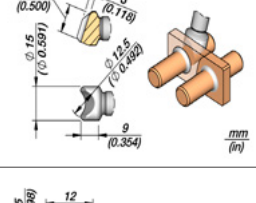
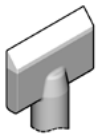
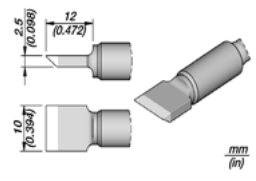
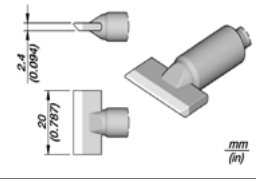
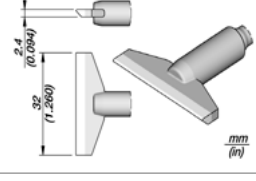
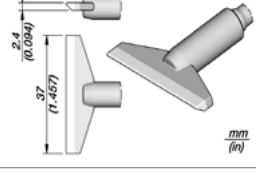
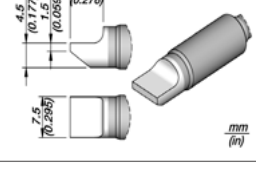

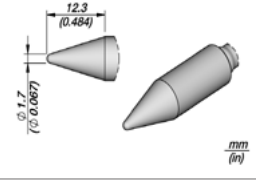
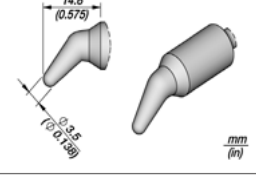
C470 Cartridges Range for T470 HD Handles and HT470 HD Thermal Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470042	Pin/Connector Cartridge Ø 4.8 mm Ø 0.189 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
	C470066	Pin/Connector Cartridge Ø 5.5 mm Ø 0.216 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470065	Pin/Connector Cartridge Ø 8.5 mm Ø 0.335 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470047	Pin/Connector Cartridge Ø 14 mm Ø 0.551 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470012	Pin/Connector Cartridge R. 6 mm S1 R. 0.236 in		Cables Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470038	Pin/Connector Cartridge R. 6 mm S2 R. 0.236 in		Wide area Cables Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470010	Pin/Connector Cartridge R. 8 mm R. 0.315 in		Cables connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470052	Pin/Connector Cartridge R. 8.5 mm R. 0.335 in		Cables connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N


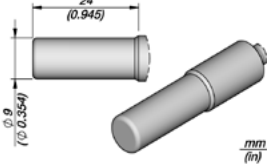

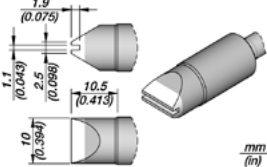

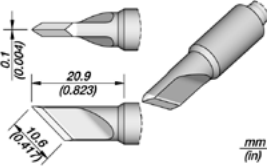

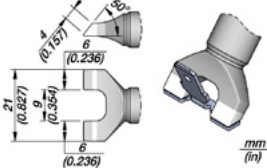
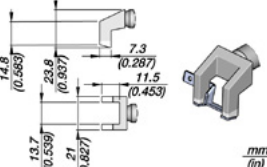

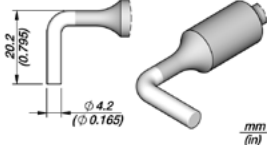
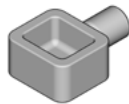
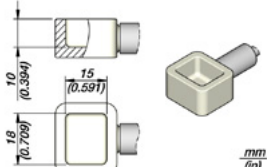
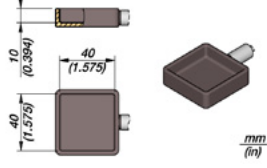
C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470029	Pin/Connector Cartridge R. 31 mm R. 1.220 in		Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470028	Barrel Cartridge Ø 1.2 mm Ø 0.047 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470020	Barrel Cartridge Ø 2.4 mm Ø 0.094 in		Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470048	Barrel Cartridge Ø 3.4 mm Ø 0.134 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470033	Barrel Cartridge Ø 3.65 mm Ø 0.144 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470055	Barrel Cartridge Ø 4 mm Ø 0.157 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470049	Barrel Cartridge Ø 5.2 mm Ø 0.205 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470030	Barrel Cartridge Ø 5 mm Ø 0.197 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N

C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

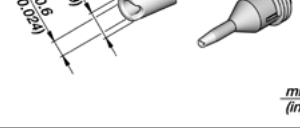
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470037	Barrel Cartridge Ø 8 mm Ø 0.315 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470041	Barrel Cartridge Ø 12.5 mm Ø 0.492 in		Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470064	Blade Cartridge 10 mm 0.394 in		Pad cleaning Connector desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
	C470059	Blade Cartridge 20 mm 0.787 in		Pad cleaning Connector desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
	C470023	Blade Cartridge 32 mm 1.260 in		Pad cleaning Connector desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
	C470063	Blade Cartridge 37 mm 1.457 in		Pad cleaning Connector desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
	C470046	Single Flat Cartridge 7.5 mm 0.295 in		General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
	C470025	Cartridge for Plastics Ø 1.7 mm Ø 0.067 in		Plastics	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470026	Cartridge for Plastics Ø 3.5 mm Ø 0.138 in		Plastics	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N

C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers


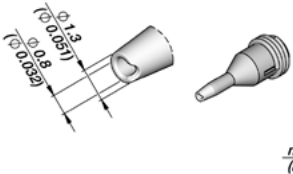
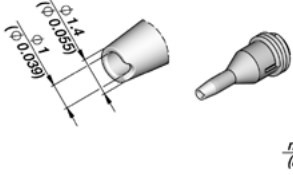
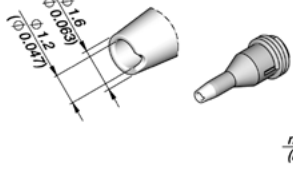
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470032	Cartridge for Plastics Ø 9 mm Ø 0.354 in		Plastics	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470043	Groove Cartridge 1.1 x 10 mm 0.043 x 0.394 in		Wire soldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470061	Knife Cartridge 10.6 mm 0.417 in		Drag Soldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470051	Blade Split Cartridge 21 mm 0.827 in		Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470070	Faston Terminal Cartridge 21 mm 0.827 in		Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470045	Pin Cartridge Ø 3.5 mm Ø 0.138 in		Through-hole Male connector	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470011	Hook Cartridge Ø 4.2 mm Ø 0.165 in		Difficult to reach	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470SP01	Solder Pot Cartridge 15 x 18 mm 0.591 x 0.709 in		Tinnig wires Desoldering Through-hole Multipin components	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470SP42	Solder Pot Cartridge 40 x 40 mm 1.575 x 1.575 in		Tinnig wires Desoldering Through-hole Multipin components	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N

C360 Tip Range
for DS360 Micro Desoldering Iron


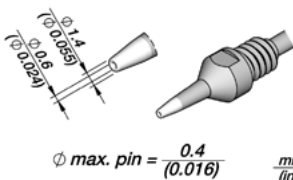
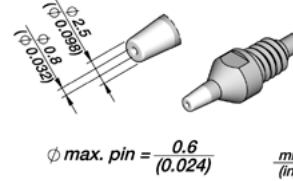
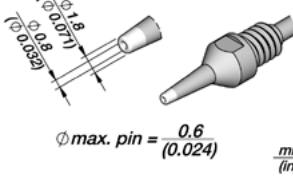
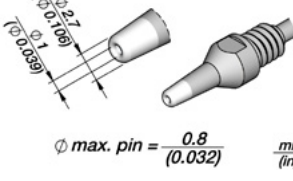
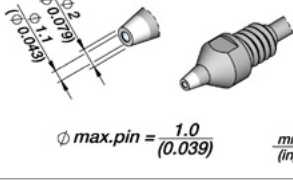
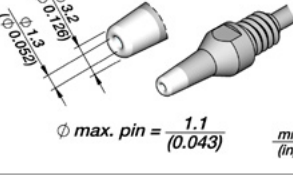
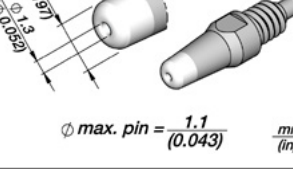


	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C360001	Micro Desoldering Tip Ø 0.6 mm Ø 0.024 in		Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
	C360002	Micro Desoldering Tip Ø 0.8 mm Ø 0.032 in		Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
	C360003	Micro Desoldering Tip Ø 1 mm Ø 0.039 in		Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
	C360004	Micro Desoldering Tip Ø 1.2 mm Ø 0.047 in		Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
	C360007	Micro Desoldering Tip Ø 1.4 mm Ø 0.055 in		Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
	C360006	Micro Desoldering Tip Ø 1.5 mm Ø 0.059 in		Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
	C360011	Micro Desoldering Tip Ø 0.6 mm Pad Ø 0.024 in		Pad desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS

C360 Tip Range for DS360 Micro Desoldering Iron


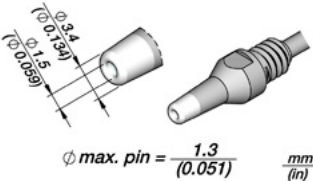
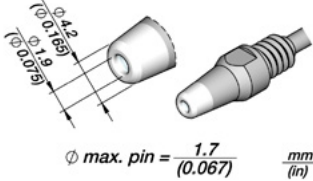
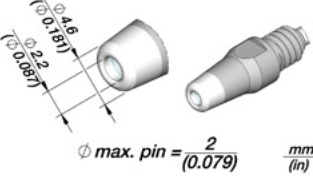
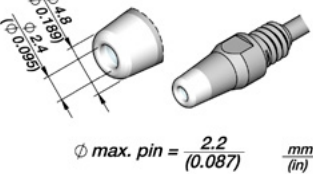
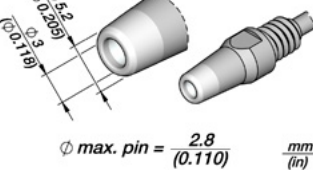
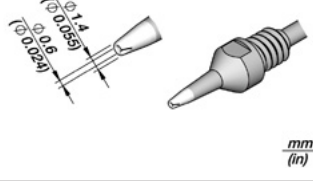

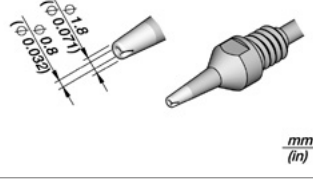
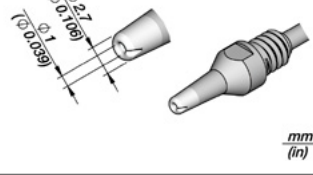
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C360012	Micro Desoldering Tip Ø 0.8 mm Pad Ø 0.032 in	 mm (in)	Pad desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
	C360013	Micro Desoldering Tip Ø 1 mm Pad Ø 0.039 in	 mm (in)	Pad desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
	C360014	Micro Desoldering Tip Ø 1.2 mm Pad Ø 0.047 in	 mm (in)	Pad desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS

C560 Tip Range
for DR560 Desoldering Iron

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C560001	Desoldering Tip Ø 0.6 mm HT Ø 0.024 in	 $\phi \text{ max. pin} = \frac{0.4}{(0.016)}$ mm (in)	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560014	Desoldering Tip Ø 0.8 mm Ø 0.032 in	 $\phi \text{ max. pin} = \frac{0.6}{(0.024)}$ mm (in)	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560002	Desoldering Tip Ø 0.8 mm HT Ø 0.032 in	 $\phi \text{ max. pin} = \frac{0.6}{(0.024)}$ mm (in)	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560003	Desoldering Tip Ø 1 mm Ø 0.039 in	 $\phi \text{ max. pin} = \frac{0.8}{(0.032)}$ mm (in)	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560017	Desoldering Tip Ø 1.1 mm Ø 0.043 in	 $\phi \text{ max. pin} = \frac{1.0}{(0.039)}$ mm (in)	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560004	Desoldering Tip Ø 1.3 x Ø 3.2 mm Ø 0.052 x Ø 0.126 in	 $\phi \text{ max. pin} = \frac{1.1}{(0.043)}$ mm (in)	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560009	Desoldering Tip Ø 1.3 x Ø 5 mm Ø 0.052 x Ø 0.197 in	 $\phi \text{ max. pin} = \frac{1.1}{(0.043)}$ mm (in)	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS

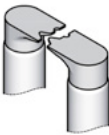
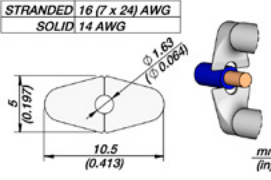
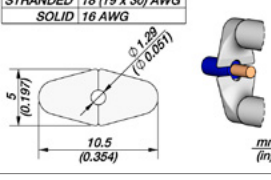
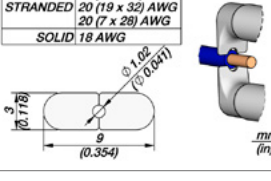
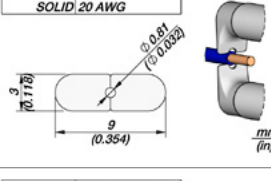
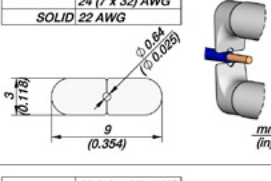
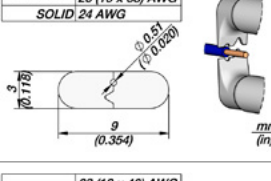
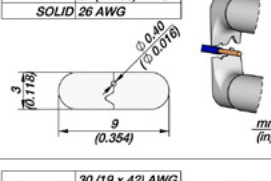
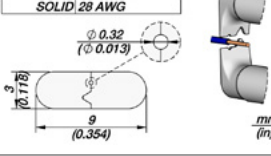


C560 Tip Range for DR560 Desoldering Iron

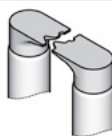
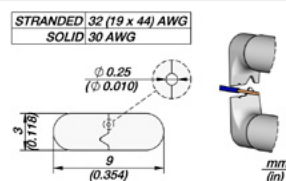
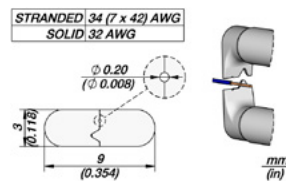
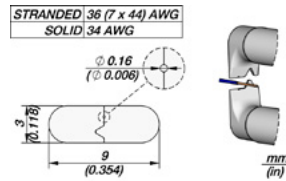
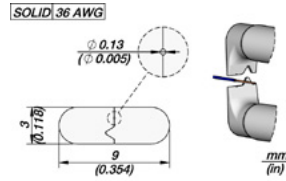
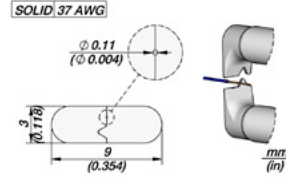
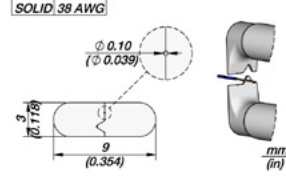
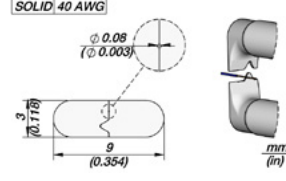
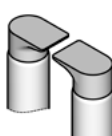
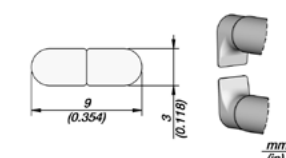
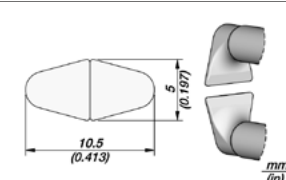
	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C560005	Desoldering Tip Ø 1.5 mm Ø 0.059 in	 $\phi \text{ max. pin} = \frac{1.3}{(0.051)} \text{ mm (in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560006	Desoldering Tip Ø 1.9 mm Ø 0.075 in	 $\phi \text{ max. pin} = \frac{1.7}{(0.067)} \text{ mm (in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560018	Desoldering Tip Ø 2.2 mm Ø 0.087 in	 $\phi \text{ max. pin} = \frac{2}{(0.079)} \text{ mm (in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560007	Desoldering Tip Ø 2.4 mm Ø 0.095 in	 $\phi \text{ max. pin} = \frac{2.2}{(0.087)} \text{ mm (in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560015	Desoldering Tip Ø 3 mm Ø 0.118 in	 $\phi \text{ max. pin} = \frac{2.8}{(0.110)} \text{ mm (in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560011	Desoldering Tip Ø 0.6 mm HT Pad Ø 0.024 in	 mm (in)	Pad desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560012	Desoldering Tip Ø 0.8 mm HT Pad Ø 0.032 in	 mm (in)	Pad desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
	C560013	Desoldering Tip Ø 1 mm Pad Ø 0.039 in	 mm (in)	Pad desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS

W140 Blade Cartridge Range
for WS140 High-Temperature Precision
Wire Stripper Tweezers

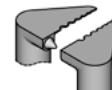
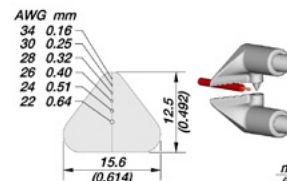
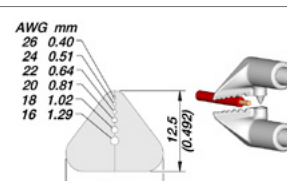
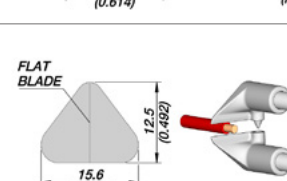


	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	W14014G	Single-Hole Cartridges Solid Wire 14 AWG	 mm (in)	Wire insulation stripping	Station: WSS Tool: WS140
	W14016G	Single-Hole Cartridges Solid Wire 16 AWG	 mm (in)	Wire insulation stripping	Station: WSS Tool: WS140
	W14018G	Single-Hole Cartridges Solid Wire 18 AWG	 mm (in)	Wire insulation stripping	Station: WSS Tool: WS140
	W14020G	Single-Hole Cartridges Solid Wire 20 AWG	 mm (in)	Wire insulation stripping	Station: WSS Tool: WS140
	W14022G	Single-Hole Cartridges Solid Wire 22 AWG	 mm (in)	Wire insulation stripping	Station: WSS Tool: WS140
	W14024G	Single-Hole Cartridges Solid Wire 24 AWG	 mm (in)	Wire insulation stripping	Station: WSS Tool: WS140
	W14026G	Single-Hole Cartridges Solid Wire 26 AWG	 mm (in)	Wire insulation stripping	Station: WSS Tool: WS140
	W14028G	Single-Hole Cartridges Solid Wire 28 AWG	 mm (in)	Wire insulation stripping	Station: WSS Tool: WS140

W140 Blade Cartridge Range for WS140 High-Temperature Precision Wire Stripper Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	W14030G	Single-Hole Cartridges Solid Wire 30 AWG		Wire insulation stripping	Station: WSS Tool: WS140
	W14032G	Single-Hole Cartridges Solid Wire 32 AWG		Wire insulation stripping	Station: WSS Tool: WS140
	W14034G	Single-Hole Cartridges Solid Wire 34 AWG		Wire insulation stripping	Station: WSS Tool: WS140
	W14036G	Single-Hole Cartridges Solid Wire 36 AWG		Wire insulation stripping	Station: WSS Tool: WS140
	W14037G	Single-Hole Cartridges Solid Wire 37 AWG		Wire insulation stripping	Station: WSS Tool: WS140
	W14038G	Single-Hole Cartridges Solid Wire 38 AWG		Wire insulation stripping	Station: WSS Tool: WS140
	W14040G	Single-Hole Cartridges Solid Wire 40 AWG		Wire insulation stripping	Station: WSS Tool: WS140
	W14003F	Flat Cartridges 3 mm		Wire insulation stripping	Station: WSS Tool: WS140
	W14005F	Flat Cartridges 5 mm		Wire insulation stripping	Station: WSS Tool: WS140

W440 Blade Cartridge Range for WS440 High-Temperature Wire Stripper Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	W440021	Multi-Hole Cartridges Solid Wire 34 - 22 AWG		Wire insulation stripping	Station: WSB Tool: WS440
	W440023	Multi-Hole Cartridges Solid Wire 26 - 16 AWG		Wire insulation stripping	Station: WSB Tool: WS440
	W440025	Flat Cartridges 12.5 mm		Wire insulation stripping	Station: WSB Tool: WS440



Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Notes

[illegible]



JBC

The Soldering Co.



Cartridge Guide for Selective Soldering

The best soldering technology applied to automation

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.



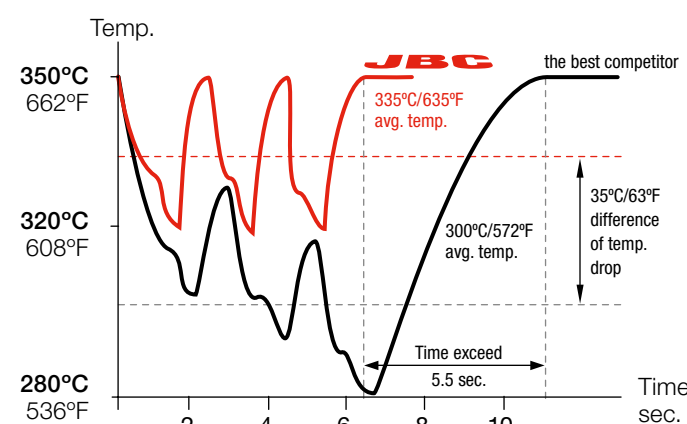
JBC Technology

Most efficient Soldering System

JBC **Selective Soldering** works 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

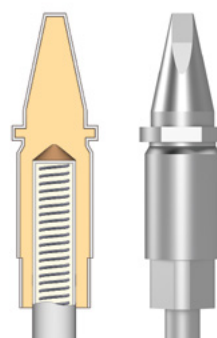
Cartridges with extended tip life

The essential part of the soldering iron is the tip so JBC has **over 50 models of cartridges** of different shapes and sizes for automation.

We offer the possibility to **manufacture your special tip geometry**. Do not hesitate to ask for: customtips@jbctools.com.


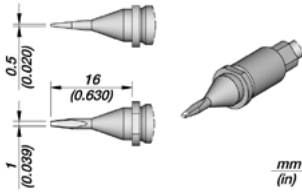
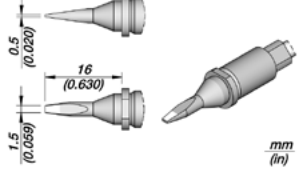
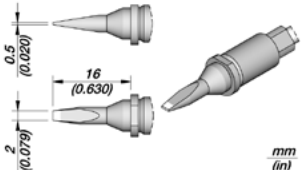
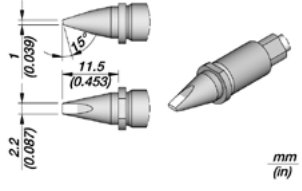
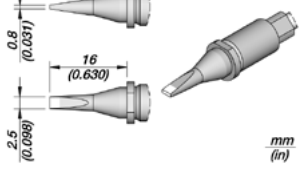
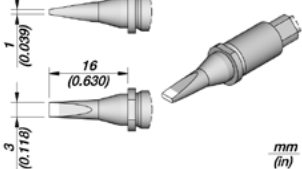
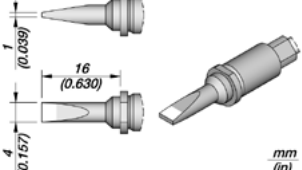
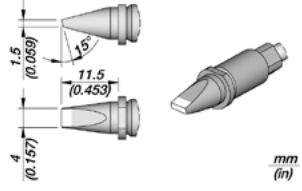
JBC has developed the most advanced technology based on the following principles:

- **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.


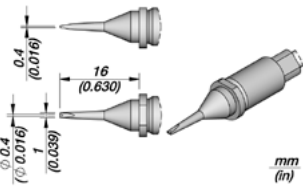
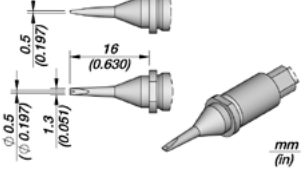
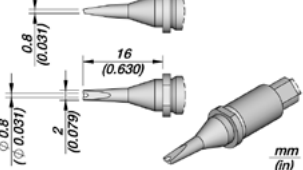
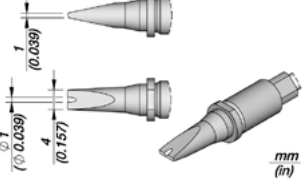
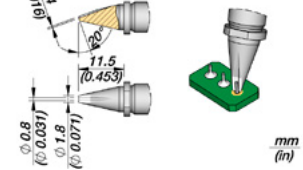

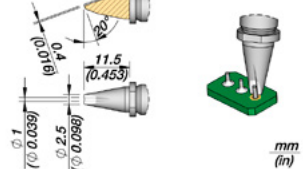
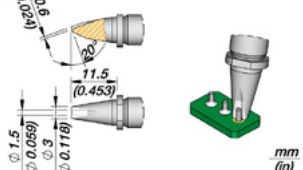
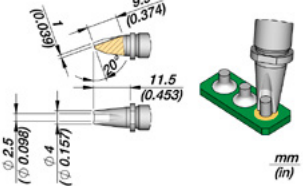


Our Cartridge Range is steadily growing as we are determined to respond to our clients' specific needs, cooperating closely with them to create **the right solution.**


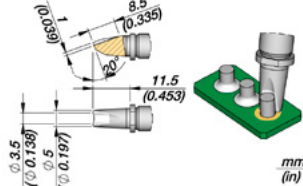
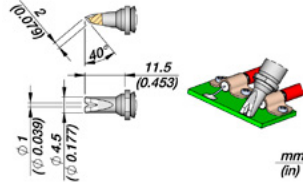

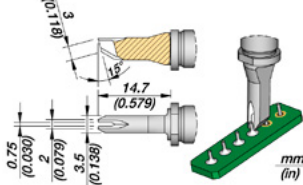
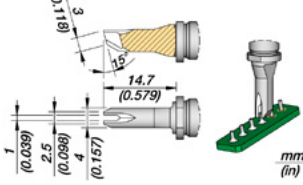
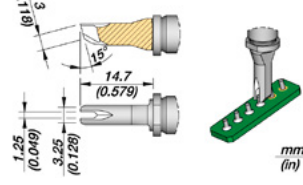
R245 Cartridge Range
for TRA245 and TR245 Automated Processes

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245016	Cartridge Chisel 1 x 0.5 mm 0.039 x 0.020 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245017	Cartridge Chisel 1.5 x 0.5 mm 0.059 x 0.020 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245018	Cartridge Chisel 2 x 0.5 mm 0.079 x 0.020 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245008	Cartridge Chisel 2.2 x 1 mm S1 0.087 x 0.039 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245019	Cartridge Chisel 2.5 x 0.8 mm 0.098 x 0.031 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245020	Cartridge Chisel 3 x 1 mm 0.118 x 0.039 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245021	Cartridge Chisel 4 x 1 mm 0.157 x 0.039 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245007	Cartridge Chisel 4 x 1.5 S1 mm 0.157 x 0.059 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245


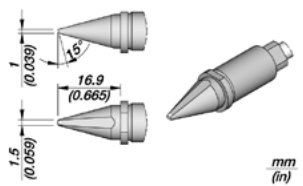
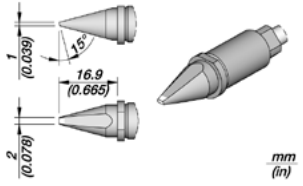
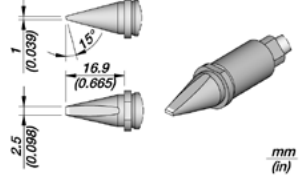
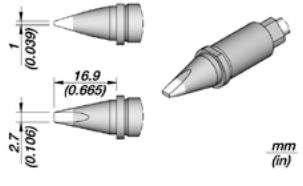
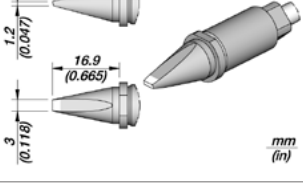
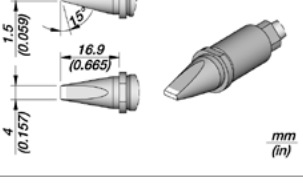
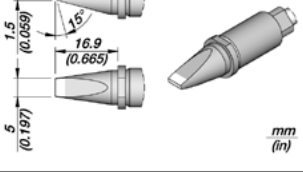
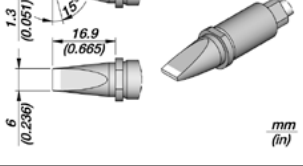
R245 Cartridge Range for TRA245 and TR245 Automated Processes

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245022	Cartridge Grooved Chisel 1 x 0.4 mm 0.039 x 0.016 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245023	Cartridge Grooved Chisel 1.3 x 0.5 mm 0.051 x 0.197 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245024	Cartridge Grooved Chisel 2 x 0.8 mm 0.079 x 0.031 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245025	Cartridge Grooved Chisel 4 x 1 mm 0.157 x 0.039 in		General use	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245009	Cartridge Pin / Connector Ø 0.8 mm S1 Ø 0.031 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245028	Cartridge Pin / Connector Ø 1 mm Ø 0.039 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245010	Cartridge Pin / Connector Ø 1.5 mm S1 Ø 0.059 in		Through hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245011	Cartridge Pin / Connector Ø 2.5 mm S1 Ø 0.098 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245


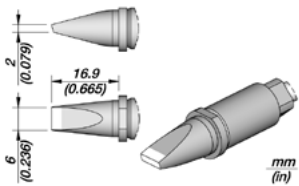
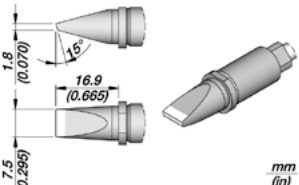

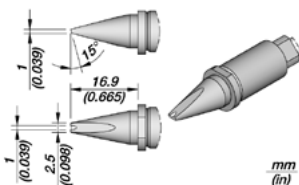
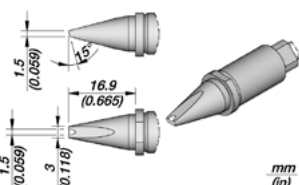
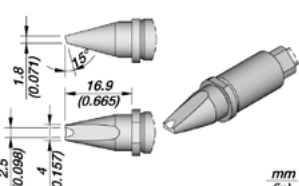
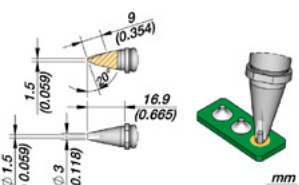

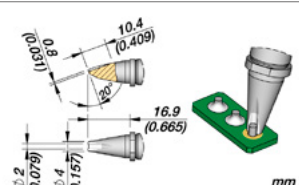
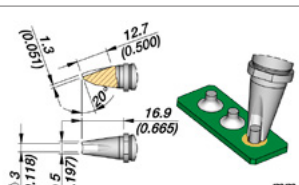
R245 Cartridge Range for TRA245 and TR245 Automated Processes

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R245012	Cartridge Pin / Connector Ø 3.5 mm S1 Ø 0.138 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245015	Cartridge Pin / Connector Ø 1 mm Ø 0.039 in		Through-hole Cable soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245026	Cartridge Drag 0.75 mm 0.029 in		Drag soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245027	Cartridge Drag Ø 1 mm Ø 0.039 in		Drag soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245
	R245029	Cartridge Drag 1.25 mm S1 0.049 in		Drag soldering	Soldering Unit: HA245 Cartridge Stand: CS2R245


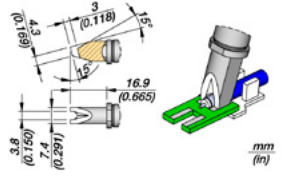
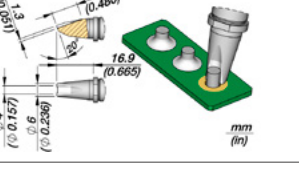

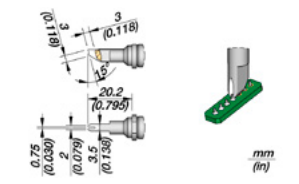
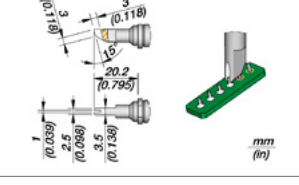
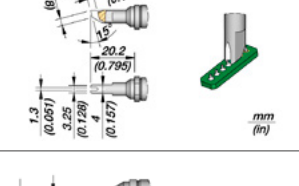

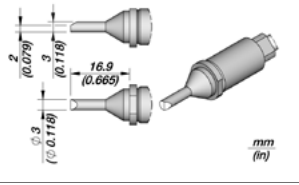
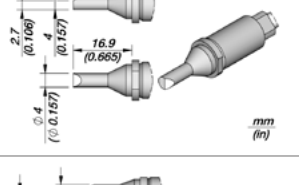
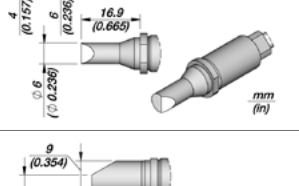
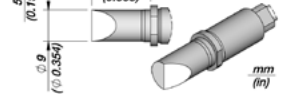
R470 Cartridge Range
for TRA470 and TR470 Automated Processes

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470019	Cartridge Chisel 1.5 x 1 mm S1 0.059 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470020	Cartridge Chisel 2 x 1 mm S1 0.078 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470021	Cartridge Chisel 2.5 x 1 mm S1 0.098 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470029	Cartridge Chisel 2.7 x 1 mm 0.098 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470034	Cartridge Chisel 3 x 1.2 mm 0.118 x 0.047 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470022	Cartridge Chisel 4 x 1.5 mm S1 0.157 x 0.059 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470023	Cartridge Chisel 5 x 1.5 mm S1 0.197 x 0.059 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470024	Cartridge Chisel 6 x 1.3 mm S1 0.236 x 0.051 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470

R470 Cartridge Range for TRA470 and TR470 Automated Processes

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470035	Cartridge Chisel 6 x 2 mm 0.236 x 0.079 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470025	Cartridge Chisel 7.5 x 1.8 mm S1 0.295 x 0.070 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470042	Cartridge Grooved Chisel 2.5 x 1 mm 0.098 x 0.039 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470043	Cartridge Grooved Chisel 3 x 1.5 mm 0.118 x 0.059 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470044	Cartridge Grooved Chisel 4 x 1.8 mm 0.157 x 0.071 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470041	Cartridge Pin / Connector Ø 1.5 mm Ø 0.059 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470030	Cartridge Pin / Connector Ø 2 mm Ø 0.079 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470031	Cartridge Pin / Connector Ø 3 mm Ø 0.118 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470

R470 Cartridge Range for TRA470 and TR470 Automated Processes

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	R470028	Cartridge Pin / Connector Ø 3.8 mm Ø 0.150 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470032	Cartridge Pin / Connector Ø 4 mm Ø 0.157 in		Through-hole Cable soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470045	Cartridge Drag 0.75 mm S2 0.029 in		Drag soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470036	Cartridge Drag 1 mm 0.039 in		Drag soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470046	Cartridge Drag 1.3 mm S2 0.051 in		Drag soldering	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470037	Cartridge Bevel Ø 3 mm Ø 0.118 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470038	Cartridge Bevel Ø 4 mm Ø 0.157 in		General use	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470039	Cartridge Bevel Ø 6 mm Ø 0.236 in		General use Sheet metal	Soldering Unit: HA470 Cartridge Stand: CS2R470
	R470040	Cartridge Bevel Ø 9 mm Ø 0.354 in		General use Sheet metal	Soldering Unit: HA470 Cartridge Stand: CS2R470

Notes

[illegible]

Notes

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