

# JBC

The Soldering Co.



## Stations Guide

Believe in innovation, enjoy the power

## A global organization at your service

JBC is a global company with a distributor network spanning 5 continents that guarantees a solid commercial organization with quick and efficient service.

## The power of experience

More than 90 years of experience have placed JBC at the technological forefront of tools for soldering and rework operations in electronics. Innovation, efficiency and reliability are the key features of a wide range of products which have been designed to satisfy the most demanding requirements of professionals.

## High technology, superior quality

Product perfection is one of the main objectives of JBC's improvement and development program. The R&D department has created the most innovative soldering technologies, which JBC is proud to present in this catalogue.



All JBC products comply with CE standards and ESD recommendations.

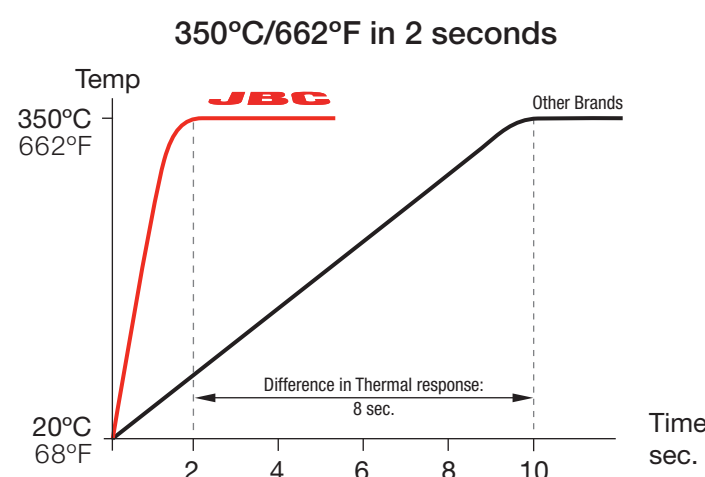


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# The Most Efficient Soldering System

## The JBC Exclusive Heating System

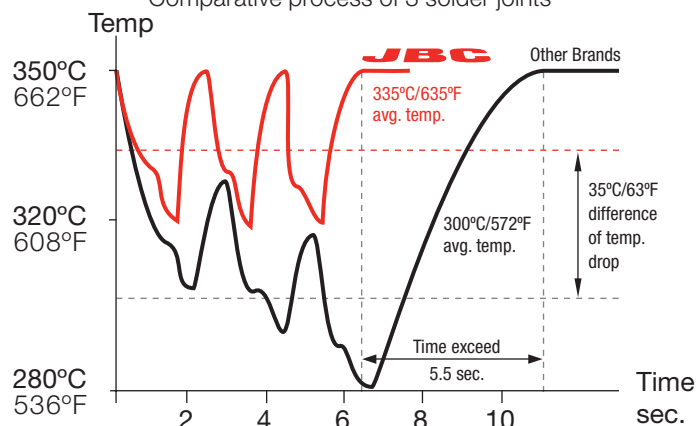
JBC's stations work with the JBC Exclusive Heating System which recovers tip temperature extremely quickly. This increases work efficiency and allows the user to work with lower temperatures.



Enhanced Temperature Efficiency ➔ Increased Productivity + Better Quality

## 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)

— JBC  
— Another top brand

## The Intelligent Heat Management

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

### Sleep Mode

**Sleep Mode** automatically lowers tip temperature below solder melting point when the tool rests in the stand.

It prevents the dissolution of the tip iron coating into molten solder.

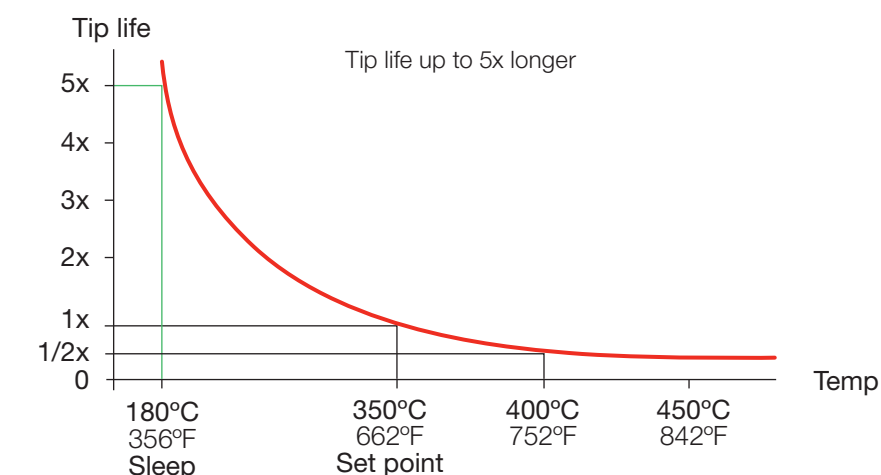
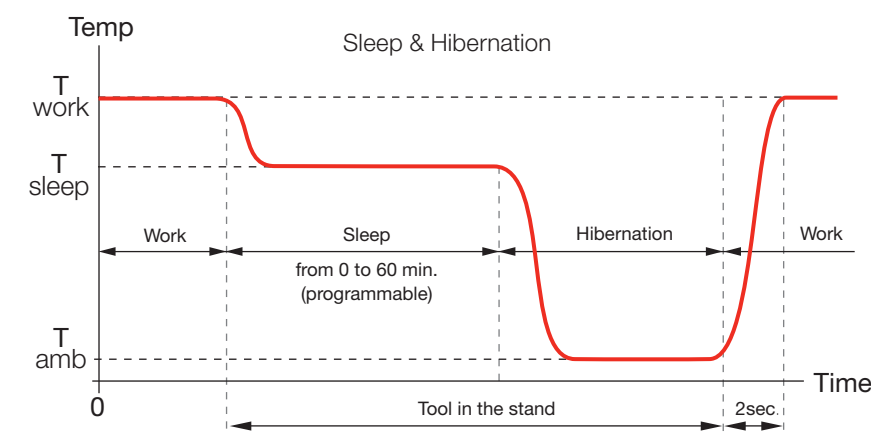
### Hibernation Mode

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

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

### Longer Tip life

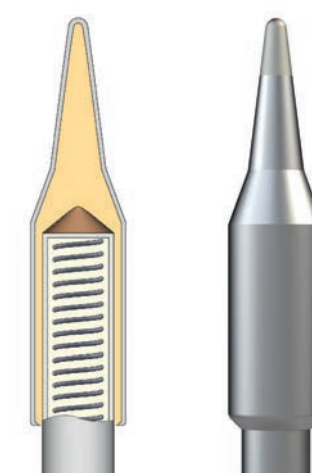
Tip life increases exponentially by using lower temperatures as shown. Using the Sleep Mode, the temperature is further reduced, which extends tip life by 5.



## Cartridges with extended tip life

The essential part of the soldering iron is the tip so JBC has **over 500 models of cartridges of different sizes and shapes** 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-Up**  
A fully-integrated thermal sensor in the heater ensures quick temperature recovery.
- **Great Durability**  
The intelligent algorithm control program extends tip life.



# Compact line

Everything you need in minimum footprint

**JBC**  
The Soldering Co.

**All in One**  
Control Unit + Stand + Cleaning

Each unit meant for a  
**specific purpose**



## Quick Cartridge Extractor and Holder

Save time and increase productivity by using the Quick Cartridge Extractor, which facilitates fast and safe use of different cartridge geometries. Cartridge Holder allow to store up to four cartridges.

## Work position

JBC stations are designed to suit the user's work position. The Tool Stand and the Cable Collector are easily adjustable.

## Intelligent Heat Management

The stations incorporate the **Sleep & Hibernation** Modes that lower tip temperature when the tool is placed in the Tool Stand. As a result, JBC's tip life lasts up to 5 times longer than other brands.

## Communication station-PC

The incorporation of a **USB Connector** on all stations and control units allows you to manage your job remotely from a PC. The most innovative technology to take your work beyond the station. Now with the new accessible and replaceable Earth Fuse.

## Intuitive Menu and Interface

Fast and easy configuration of the station thanks to the 7-key keypad. The **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 rubber** to prevent splashing of solder particles and maintain the work area clean. The most **complete Cleaning System** allows you to choose from three safe methods according to your needs: metallic wool, sponge or metal brush. The integrated wiper also allows you to remove excess solder from the tip single-handedly.

## Soldering

### CDS Precision Soldering Station

This station is ideal when working on populated PCBs or under a magnifying glass. It includes **T210** Precision Purpose Handle.

### CDB Soldering Station

This station is suitable for both SMD or THT components. It includes **T245** General Purpose Handle.

### CDA Solder Feed Station

The perfect station for applications requiring a free hand to solder wire, connectors, transformers or THT components. It includes **AP250** Solder Feed Iron.



## Rework

### CDP Micro Tweezers Soldering Station

The best solution for soldering and rework of SMD such as chips, small/medium SOP components and dual line components. It includes **AM120** Adjustable Micro Tweezers.

### CDD Desoldering Station

The perfect station for precision desoldering jobs of THT components and SMD pad cleaning. It includes **DS360** Micro Desoldering Iron.

















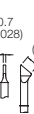

































# Cartridge Map



















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









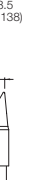











See the **full range** on our website


















**JBC**  
The Soldering Co.





<b>C115</b> mm (in)	 C115126	 C115101	 C115103	 C115106	 C115107	 C115124	 C115118	 C115105	 C115110	 C115116	 C115117	 C115108	 C115125	 C115113	 C115114	
	$\varnothing 0.1$ ( $\varnothing 0.004$ )	$\varnothing 0.1$ ( $\varnothing 0.004$ )	$\varnothing 0.3$ ( $\varnothing 0.012$ )	$\varnothing 0.5$ ( $\varnothing 0.020$ )	$\varnothing 0.8$ ( $\varnothing 0.031$ )	$\varnothing 0.1$ ( $\varnothing 0.004$ )	$\varnothing 0.1$ ( $\varnothing 0.004$ )	$\varnothing 0.3$ ( $\varnothing 0.012$ )	$\varnothing 0.5$ ( $\varnothing 0.020$ )	$0.2 \times 0.1$ ( $0.008 \times 0.004$ )	$0.4 \times 0.2$ ( $0.016 \times 0.008$ )	$0.6 \times 0.3$ ( $0.024 \times 0.012$ )	$1 \times 0.2$ ( $0.039 \times 0.008$ )	$1 \times 0.3$ ( $0.039 \times 0.012$ )	$1.8 \times 0.5$ ( $0.071 \times 0.020$ )	
Stainless steel tip	 C115115	 C115111	 C115112	 C115120	 C115109	 C115127	 C115128	Spoon $\varnothing 1$ ( $\varnothing 0.039$ ) 				High Thermal Performance  C115223 A = 2.4 x 0.6 ( $\varnothing 0.094 \times 0.024$ ) C115222 A = 1.6 x 0.3 ( $\varnothing 0.063 \times 0.012$ ) C115221 A = 1.3 x 0.3 ( $\varnothing 0.051 \times 0.012$ ) C115214 A = 1.8 x 0.5 ( $\varnothing 0.071 \times 0.020$ ) C115213 A = 1 x 0.3 ( $\varnothing 0.039 \times 0.012$ )				
		 C115111	 C115112	 C115120	 C115109	 C115127	 C115128	 C115211				 C115212				
		$0.7$ ( $\varnothing 0.028$ )	$3.5$ ( $\varnothing 0.138$ )	$0.3$ ( $\varnothing 0.012$ )	$2.5$ ( $\varnothing 0.098$ )	$1$ ( $\varnothing 0.039$ )	$\varnothing 0.6$ ( $\varnothing 0.024$ )	$\varnothing 1$ ( $\varnothing 0.039$ )	$\varnothing 2.5$ ( $\varnothing 0.098$ )	$0.7$ ( $\varnothing 0.028$ )	$3.5$ ( $\varnothing 0.138$ )	$\varnothing 2.5$ ( $\varnothing 0.098$ )	$0.3$ ( $\varnothing 0.012$ )	$2.5$ ( $\varnothing 0.098$ )	$\varnothing 2.5$ ( $\varnothing 0.098$ )	






<b>C245</b> mm (in)	 C245731	 C245773 245673*	 C245742	 C245774	 C245906 C245806*	 C245406	 C245768	 C245944 C245844*	 C245907 C245807*	 C245407	 C245759	 C245770	 C245741	 C245729	 C245061 C245261*	 C245911 C245811*
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






 C245775	 C245755	 C245756	 C245908 C245808*	 C245708	 C245967	 C245069	 C245966 C245866*	 C245030 C245230*	 C245032	 C245036	 C245930	 C245001 C245201*	 C245937	 C245957 C245803*	 C245903	 C245403	 C245943
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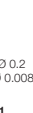









 C245933	 C245107	 C245747	 C245710	 C245905	 C245405	 C245945 C245845*	 C245795	 C245784	 C245793	 C245912 C245812*	 C245056 C245256*	 C245951	 C245766	 C245301*	 C245748	 C245749	 C245962 C245862*	 C245963 C245863*	 C245946 C245846*
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 C245732	 C245761	 C245034 C245234*	 C245029	 C245126	 C245786	 C245929	 C245935	 C245904 C245804*	 C245259	 C245260	 C245627	 C245628	 C245067	 C245938 A = 3.8 (0.149) C245931 A = 2.7 (0.106) C245965 A = 1.9 (0.075)	 C245009	 C245010
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Hoof tip with reduced tinned surface, ideal for touchup	Chip Components	Knife	Dual in Line
 C245797 A = Ø 3.8 (0.149) C245102 A = Ø 2 (0.079) C245064 A = Ø 1.3 (0.051)	 C245150 A = 2.3 (0.091) B = 3 (0.118) C245019 A = 4.6 (0.181) B = 2.5 (0.098) C245018 A = 3.5 (0.138) B = 2.2 (0.087) C245017 A = 2.2 (0.088) B = 3 (0.118) C245016 A = 2 (0.079) B = 1.6 (0.063)	 C245765 A = 0.4 (0.016) B = 6 (0.236) C = 13.5 (0.531) C245789 A = 0.3 (0.012) B = 3.8 (0.150) C = 10.6 (0.417)	 C245303* A = 6.5 (0.256) B = 6 (0.236) C245250* A = 5.4 (0.213) B = 8 (0.315) C245226* A = 15.2 (0.598) B = 29 (1.142) C245222* A = 7.1 (0.279) B = 13 (0.512) C245221* A = 5.4 (0.213) B = 10 (0.394) C245305* A = 9.6 (0.378) B = 12 (0.472) C245304* A = 9.6 (0.378) B = 15 (0.591)






QFP y PLCC	For PLCC Sockets	Blade	CUSTOMIZED	Fast soldering on contacts in male connectors
 C245352* A = 15.4 (0.606) B = 15.4 (0.606) C245315* A = 15 (0.591) B = 15 (0.591) C245351* A = 12.3 (0.484) B = 12.3 (0.484) C245228* A = 12.4 (0.488) B = 15 (0.591) C245344* A = 26 (1.024) B = 26 (1.024) C245227* A = 17.5 (0.689) B = 17.5 (0.689)	 C245247* N. of contact positions = 44 A = 16 (0.629) B = 16 (0.629) C245248* N. of contact positions = 32 A = 13.4 (0.528) B = 10.8 (0.425)	 C245792 A = 40 (1.575) C245776 A = 37 (1.457) C245949 A = 32 (1.260) C245913 A = 21 (0.827) C245752 A = 15 (0.591) C245914 A = 10 (0.394)	 C245138 C245123 C245121 C245311* A = 20 (0.787) B = 6 (0.236) C245136 A = 6.5 (0.256) B = 7.1 (0.279)	 C245268*
















C245E Cartridges have a reinforced protection on the tip that provides a longer life with a small reduction of thermal efficiency.								
<b>C245E</b> mm (in)	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)	3.2 x 0.8 (0.126 x 0.031)	Ø 2.4 (Ø 0.094)	Ø 3.5 (Ø 0.138)	7.2 (0.283)
								
	C245159E	C245158E	C245160E	C245155E	C245161E	C245156E	C245354E	C245157E





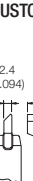


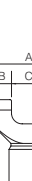


Chips Components	Dual in Line	<b>C120</b> mm (in)
 C120002  C120902  C120006  C120004  C120012  C120011  C120001	 C120003  C120005  C120007  C120008  C120009  C120010	 C210021  C210023  C210019


 C210024  C210022  C210008  C210007	 C210018 A = 3.4 (0.134) B = 0.3 (0.012) C210033 A = 2.5 (0.098) B = 0.3 (0.012)	 C210012 A = 0.7 (0.028) B = 2.4 (0.094) C = Ø 1 (0.039) D = 0.4 (0.016)	To solder inside a connector  C210025 A = Ø 2.1 (0.083) B = Ø 1.1 (0.043) C = 5 (0.197)	VIEW A 2:1  C210015 A = 4.5 (0.177) C = 2.3 (0.091)	To solder through hole components on multilayer PCBs  C210017 A = Ø 2 (0.079) B = Ø 0.7 (0.028) C = Ø 4.5 (0.177)
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 C250420	 C250401	 C250402	 C250403	 C250409	 C250410	 C250404	 C250405	 C250406	 C250412	 C250418	 C250407	 C250408	 C250411	 C250413	 C250414	 C250415	<b>C250</b> mm (in)
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Chips Components	Blade type	QFP & PLCC	Dual in Line	CUSTOMIZED
 C420271 A = 1.5 (0.059) C420272 A = 2.6 (0.102)	 C420283 A = 50 (1.968)	 C420280 A = 11 (0.433) C420279 A = 8 (0.315) C420288 A = 14.5 (0.571)	 C420285 A = 22 (0.866) C420278 A = 20 (0.787) C420277 A = 15 (0.591) C420276 A = 10 (0.394) C420275 A = 8 (0.315) C420274 A = 6 (0.236) C420273 A = 4 (0.157)	 C420286 A = 15.6 (0.614) B = 12 (0.472) C = 14.3 (0.563)

 C470013	 C470036	 C470014	 C470040	 C470035	 C470017	 C470009	 C470002	 C470015	 C470004	 C470016	 C470058	 C470039	 C470006	 C470007
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 C470034	 C470018	 C470019	 C470003	 C470056	 C470001	CUSTOMIZED	 C470061	 C470051 A = 21 (0.827) B = 6 (0.236) C = 9 (0.354) D = 6 (0.236) E = 4 (0.157)	 C470027 A = 43 (1.693) B = 20 (0.787)	 C470SP01 A = 18 (0.709) B = 15 (0.591)
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 C360001 Ø A = 1 (0.039) Ø B =
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# Modular line

Set up your personalized station according to your soldering or rework needs

Stackable modules  
save work space

Fully compatible tools  
with all control units

Easy-to-use menu  
helps work more  
efficiently



**Customizable station**  
Personalize the parameters  
according to your work.



**Partial Counters**  
Total and partial time  
register for each port:  
work, Sleep & Hibernation  
Modes in hours.



**Peripherals**  
Connect station ports  
to pedals and modules:  
desoldering pump,  
nitrogen flow regulator,...



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



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



**Communication  
Station-PC**  
Update station software,  
manage your stations via  
PC or export graphics.



**Robot**  
Automate the soldering  
process and manage the  
station via robot.



## Modular line



## Tip Cleaning Systems



**CLU**  
Senior Tip Cleaner

CLU Tip Cleaner cleans the tip in less than 1 second providing a thorough and gentle tip cleaning. It features two working modes: Sensor and Continuous, and it is designed to keep the work area free of Foreign Object Debris (FOD).



**CLS**  
Junior Tip Cleaner

This automatic cleaner improves thermal transfer of the tip in less than 1 second, which means you save time and optimize production.



**CLM**  
Manual Tip Cleaner

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

# Premium line

Different solutions based on the **JBC Modular System** specifically designed for different soldering and rework processes

## Nano Stations

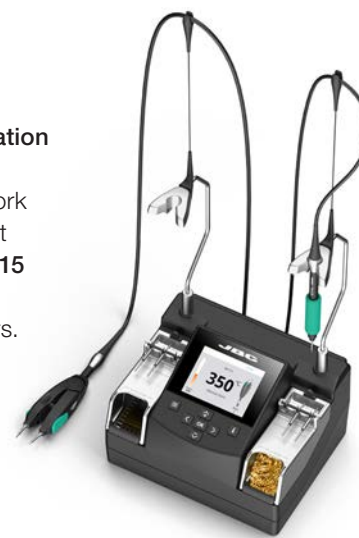
### **NAN** 2-Tool Nano Soldering Station

The best solution for soldering SMD requiring the highest precision. It includes two **NT115** Nano Handles.



### **NAS** 2-Tool Nano Rework Station

The best solution for rework SMD requiring the highest precision. It includes **NT115** Nano Handle and **AN115** Adjustable Nano Tweezers.



## Heavy Duty Stations

### **HD** Heavy Duty Station

The most powerful soldering unit of the JBC range. It includes **T470F** Thermal Insulator Grip HD Handle.



### **HDP** Heavy Duty Tweezer Station

Designed to reduce the soldering time in applications that requires a large amount of heatspan. It includes two **HDU** Control Units and **HT470** Heavy Duty Thermal Tweezers.



## Auto Feeders

### **AL** Auto-Feed Soldering Station

The ideal solution for soldering process requiring a free hand. The station feeds precisely the programmed amount of wire by pressing a button. It includes **AL250** Auto-Feed Iron.



### **SF** Automatic Solder Feeder Station

Allowed to feed solder wire automatically from any position. It has three working modes: continuous, discontinuous and program mode. It includes the ergonomic **SF280** Automatic Solder Feeder and **GSF10V** Guide Kit.



## Rework

### **DDS** 2-Tool DDU Desoldering Station

DDS Station is a complete solution to rework circuits with **T245** General Purpose Handle and **D560** Desoldering Iron.

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



### **DDP** 2-Tool DDU Precision Station

DDP Precision 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 Purpose Handle and **AM120** Adjustable Micro Tweezers.

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



### **DMS** 2-Tool DMU Rework Station

DMS Station is a complete solution to rework circuits with **T245** General Purpose Handle and **D560** Desoldering Iron.

The DMU Control Unit manages up to **four tools** simultaneously and is fully compatible with 10 different JBC tools.



### **DMP** 4-Tool DMU Precision & Rework Station

DMP Station is a complete solution to rework circuits with **T245** General Purpose Handle, **D560** Desoldering Iron, **T210** Precision Purpose Handle and **AM120** Adjustable Micro Tweezers.

The DMU manages up to **four tools** simultaneously and is fully compatible with 10 different JBC tools.



# Complete Rework Station

**RMS**

## Complete Rework Station

The quickest and safest solution to solder and rework all kinds of SMDs. It consists of stackable modules and all the necessary tools and accessories to make soldering job easier, including **D560** Desoldering Iron, **T245** General Purpose Handle and **JTT** Heater Hose Set. The DDU Control Unit manages up to **two tools** simultaneously and is fully compatible with 10 different JBC tools.



## Preheaters

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

**PHNK** Nano Preheater Set

**PHSK** Small Preheater Set

**PHBK** Large Preheater Set

**PHXK** XL Preheater Set



## Hot Air Stations



**JNA**

### High Precision Hot Air Station

The only Hot Air Station to rework, position and remove SMDs without affecting nearby components. It includes **NH** High Precision Hose Set and **T260** Pick & Place Handle.



**JT**

### Hot Air Station

A high powered Hot Air Station capable of reworking all types of SMDs. It includes the **JTT** Heater Hose Set.

**TE**

### Precision Hot Air Station

Precision Hot Air Station capable of reworking small and medium SMDs. It includes **TET** Precision Hose Set.

## Wire Stripper Station

**WS**

### High Temperature Wire Stripper Station

WS is specially designed for stripping high-temperature wire insulations made of thermostable materials. This station comes with the comfortable **WS440** High Temperature Wire Stripper Tweezers.

