

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.

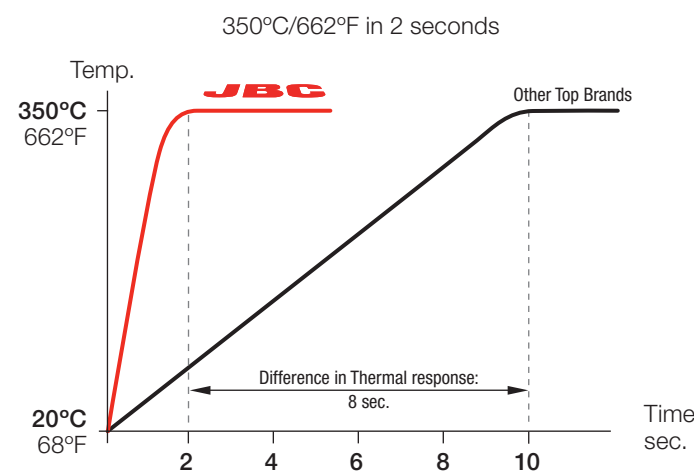


JBC Soldering S.L. reserves the right to update, modify or delete any information without previous notice.

Most Efficient Soldering System

JBC Exclusive Heating System

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

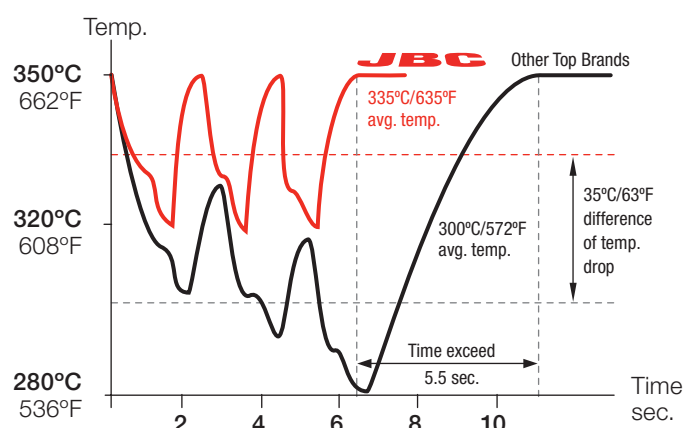


*This graph compares JBC C210 Cartridge Range to other top brand cartridges with similar features

Enhanced Temperature Efficiency ➔ Increased Productivity + Better Quality

Efficient Temperature Control

Comparative process of 3 solder joints



Tips with JBC technology only drop 30°C (54°F) where others drop as much as 70°C (126°F)

Intelligent Heat Management

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

Sleep Mode

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

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

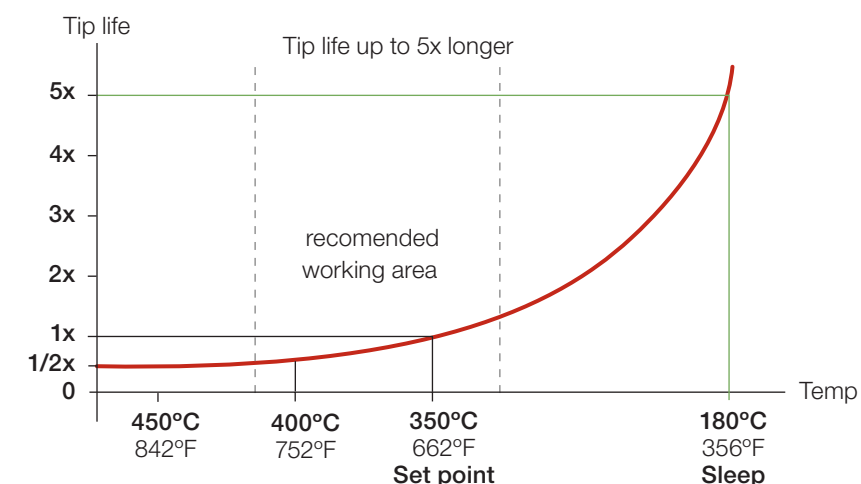
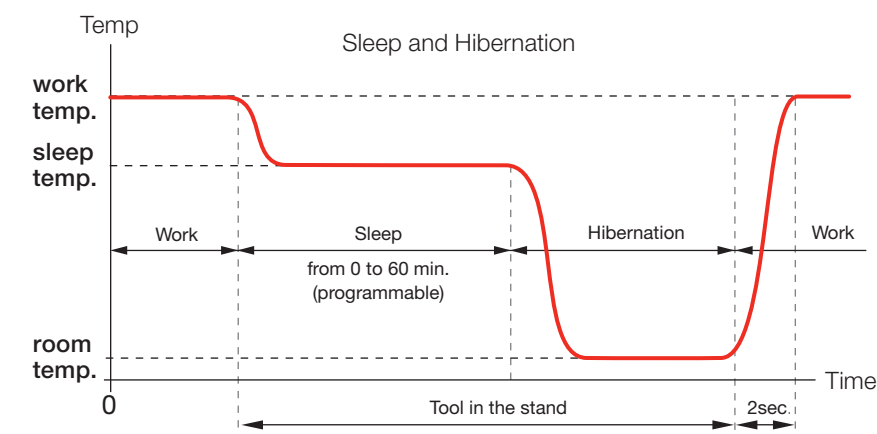
Hibernation Mode

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

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

Longer Tip life

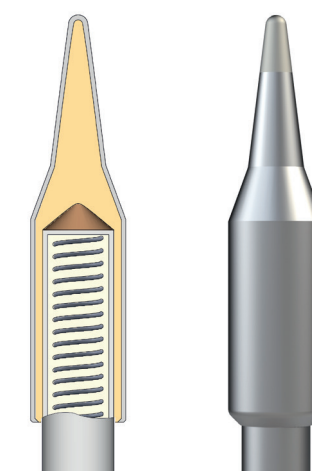
Tip life increases exponentially by using lower temperatures as shown. Using Sleep Mode, the temperature is further reduced, which multiplies tip life by 5.



Cartridges with extended tip life

The essential part of the soldering iron is the tip so 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

JBC
The Soldering Co.

All in One
Control Unit + Stand + Cleaning

Each unit meant for a
specific purpose



Soldering

CDS
Precision Soldering Station

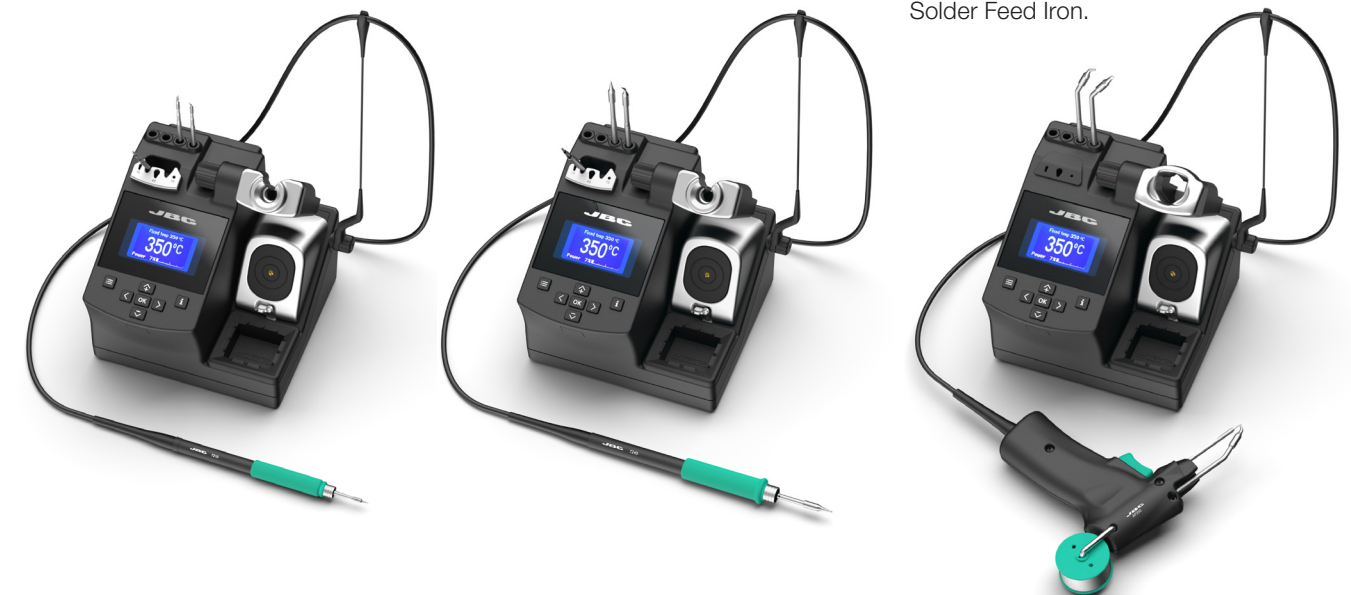
This station is ideal when working on populated PCBs or under a magnifying glass. It includes **T210** Precision Handle.

CDB
Soldering Station

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

CDA
Solder Feed Station

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



Rework

CDP
Micro Tweezers Soldering Station

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

CDD
Desoldering Station

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



Soldering Assistant

Improve your soldering quality in real time

Measure energy of each soldering joint

Analyze manual soldering processes

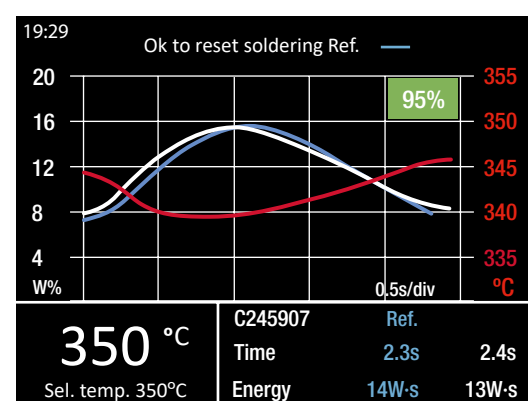
Soldering Assistant helps to improve soldering abilities

JBC innovates CDE Stations with Soldering Assistant, the **first system that measures the delivered energy during the soldering process.**

The system compares all new technical soldering joints to the pre-stored soldering joint. This function gives feedback to the operator, showing two different colors - **red** and **green** - along with a percentage to qualify the soldering process.

Soldering Assistant is the solution to optimize repetitive soldering processes, **improving your soldering production line with greater quality and control.**

Furthermore, this system makes this station perfect for operators with little experience.

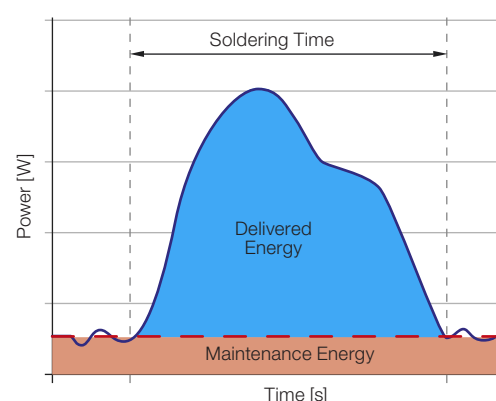
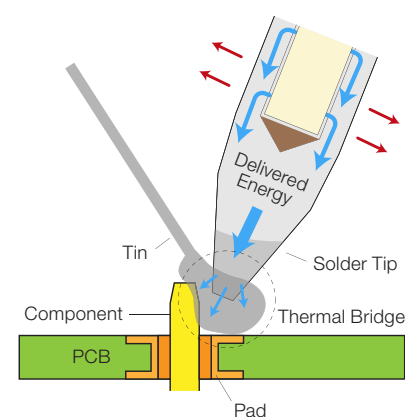


Operator feedback

Blue line: Soldering Reference White line: Current soldering Red line: Temperature

Energy of the soldering process

The measurement of the energy delivered by the soldering process and the time needed to do so, is what allows the station to indicate whether two soldering joints are equal or not.

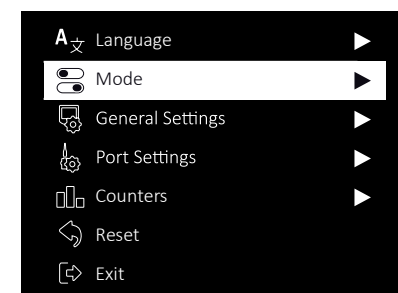


Soldering Assistant allows analyzing manual soldering processes and obtaining a qualification of these by comparing the soldering joints one by one.

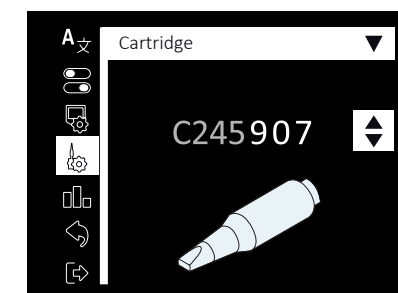
The station identifies when a soldering joint is performed, records the power delivered in each instant and measures the energy supplied.

How do we achieve a quality solder joint?

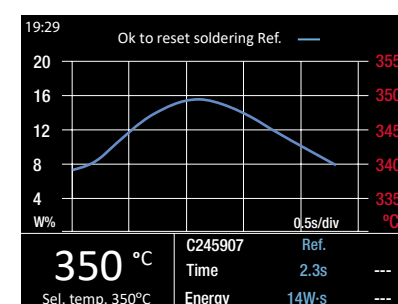
1. Configuration



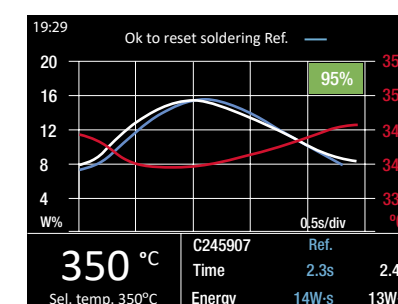
2. Choose cartridge



3. Soldering reference



4. Practice



Station Range

CDES

Precision Soldering-Assistant Station

The ideal tool when working on populated PCBs or under the magnifying glass. It includes **T210** Precision Handle.



CDEB

Soldering-Assistant Station

Perfect for both SMD components and for jobs with high power requirements. It includes **T245** General Purpose Handle.



Cartridge Map

Over 500 Cartridges & Customized models

See the full range on our website

JBC
The Soldering Co.

C115

 C115126	 C115101	 C115103	 C115106	 C115107	 C115124	 C115118	 C115105	 C115110	 C115116	 C115117	 C115108	 C115125	 C115113	 C115114				
Stainless steel tip C115115					 C115109		 C115127		 C115128		High Thermal Performance C115213				 C115211		 C115212	

C245

 C245731	 C245773	 C245742	 C245774	 C245906	 C245406	 C245768	 C245944	 C245907	 C245407	 C245759	 C245770	 C245741	 C245729	 C245061	 C245911
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 C245775	 C245755	 C245756	 C245908	 C245708	 C245967	 C245069	 C245966	 C245030	 C245032	 C245036	 C245930	 C245001	 C245937	 C245957	 C245903	 C245403	 C245943	 C245933	 C245107
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 C245747	 C245710	 C245905	 C245405	 C245945	 C245795	 C245784	 C245793	 C245912	 C245056	 C245951	 C245766	 C245301	Hoof tip with reduced tinned surface, ideal for touchup C245064		 C245748	 C245749	 C245962	 C245963	 C245946
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 C245732	 C245761	 C245034	 C245029	 C245126	 C245786	 C245929	 C245935	 C245904	 C245259	 C245260	 C245627	 C245628	 C245067	 C245965	 C245931	 C245938	 C245016	 C245017	 C245150	 C245018	 C245019
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 C245789	 C245939	 C245765	 C245955	 C245022	 C245304	 C245250	 C245221	 C245226	 C245224	 C245351	 C245228	 C245315	 C245352	 C245227	 C245344	 C245914	 C245752	 C245913	 C245949	 C245776	 C245792	 C245138	 C245123	 C245121	 C245109
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 C245053	 C245052	 C245054	 C245119	 C245772	 C245790	 C245785	 C245763	 C245760	 C245754	 C245751	 C245667	 C245764	 C245SP01
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C245E

 C245159E	 C245158E	 C245160E	 C245155E	 C245735E	 C245161E	 C245070E	 C245968E	 C245156E	 C245354E	 C245157E
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C120

 C120002	 C120902	 C120006	 C120004	 C120012	 C120011	 C120001	 C120003	 C120005	 C120007	 C120008	 C120009	 C120010
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C210

 C210020	 C210009	 C210016	 C210001	 C210013	 C210003	 C210005	 C210002	 C210010	 C210014	 C210004	 C210006	 C210027	 C210031	 C210028	 C210029	 C210030	 C210019	 C210023	 C210021
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C250

 C250420	 C250401	 C250402	 C250403	 C250409	 C250410	 C250404	 C250405	 C250406	 C250412	 C250418	 C250407	 C250408	 C250411	 C250413	 C250414	 C250415
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C420

 C420271	 C420272	 C420283	 C420288	 C420280	 C420279	 C420273	 C420274	 C420275	 C420276	 C420277	 C420278	 C420285	 C420286	 C420287
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C470

 C470013	 C470036	 C470014	 C470040	 C470035	 C470017	 C470009	 C470002	 C470015	 C470004	 C470016	 C470058	 C470039	 C470006	 C470007	 C470019	 C470003	 C470056
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 C470064	 C470059	 C470063	 C470061	 C470051	 C470027	 C470021	 C470044	 C470057	 C470005
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 C470048	 C470049	 C470033	 C470030	 C470037	 C470041	 C470031	 C470047	 C470010	 C470042	 C470046	 C470050	 C470SP01	 C470SP42
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C360

 C360001	 C360002	 C360003	 C360004	 C360007	 C360006	 C360011	 C360012	 C360013	 C360014
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C560

 C560001	 C560002	 C560014	 C560003	 C560009	 C560005	 C560015	 C560017	 C560018	 C560007	 C560015	 C560013
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Modular System

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

Stackable modules
save work space

Fully compatible tools
with all control units

Easy-to-use menu
helps work more
efficiently



Customizable Station
Personalize the parameters
according to your 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 System Map



Tip Cleaning Systems



CLU
Senior Tip Cleaner

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



CLM
Manual Tip Cleaner

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



Premium Stations

Different solutions based on the JBC Modular System 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 **HDT** 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 **DR560** 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 Handle and **AM120** Adjustable Micro Tweezers.

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



DMS 4-Tool DMU Rework Station

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

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



DMP

4-Tool DMU Precision Rework & Desoldering Station

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

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



Complete Rework Station

RMS

Complete Rework Station

The quickest and safest solution to solder and rework all kinds of SMDs. It consists of stackable modules and all the necessary tools and accessories to make soldering job easier, including **DR560** Desoldering Iron, **T245** General Purpose Handle and **JTT** Heater Hose Set.

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



SRS

SMD Rework System

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

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

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

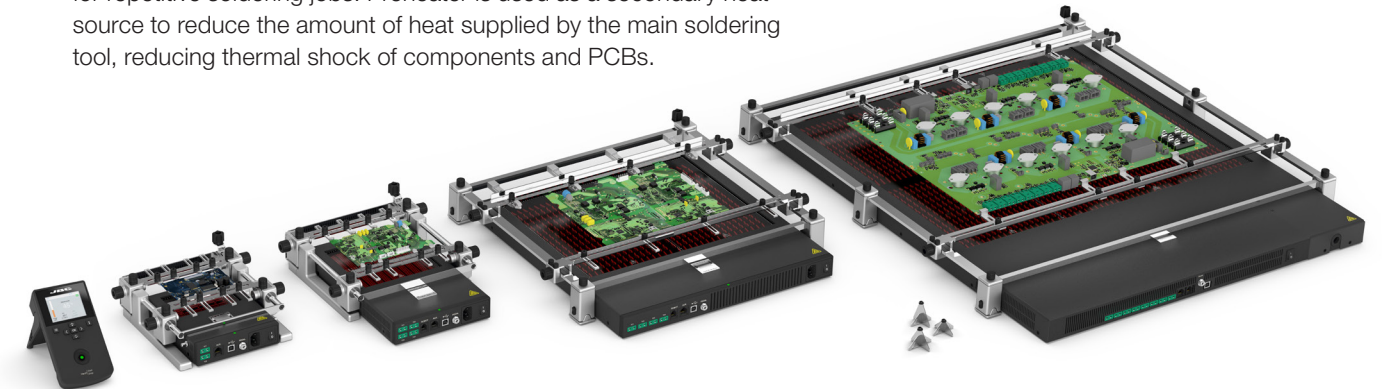
PHSK Small Preheater Set comes with **PHS** Small Preheater and **PSS** Small PCB Support.

A variety of Protectors, Extractors and Tripods are included.



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 Heater Hose Set and **T260** Pick & Place Handle.



TE

Precision Hot Air Station

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



JT

Hot Air Station

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

Wire Stripper Stations

Specially designed for stripping high-temperature wire insulations made of thermostable materials.

WSS

High-Temperature Precision Wire Stripper Station

This station includes **WS140** High-Temperature Precision Wire Stripper Tweezers.

WSB

High-Temperature Wire Stripper Station

This station includes **WS440** High-Temperature Wire Stripper Tweezers.



