JBC

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The most exceptional technology

Soldering Profiles

Temperature Dynamic Profiles

For an effective soldering process, soldering must be carried out under carefully calibrated conditions. The use of these profiles allows you to **control the temperature of the component** during all the phases of the soldering process.

This effective functionality is **available for new stations** (CDE-A, NANE-C, HDE-D & DDE-C Control unit) Old units are not supported.
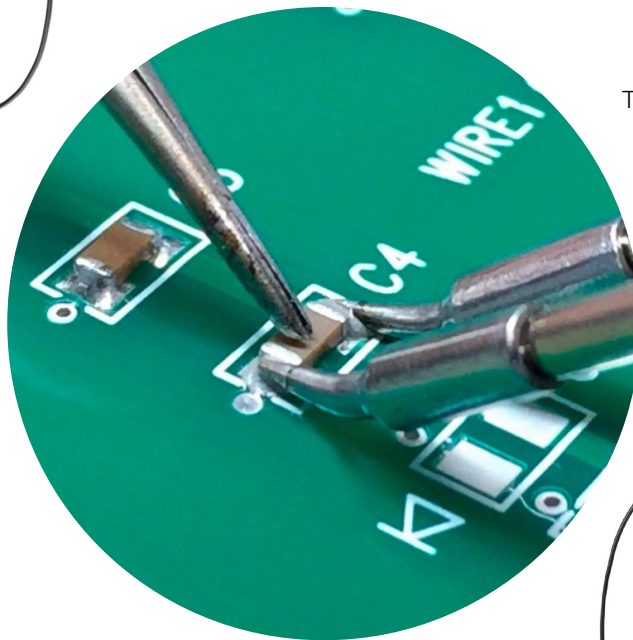
DDE-C control unit

DME control unit

This feature is now available for **DME** stations **through a software update**, which can be freely downloaded from our website.
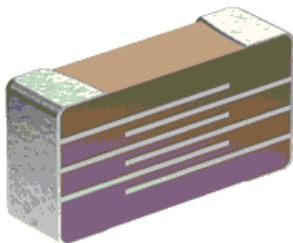
CDE-A stations

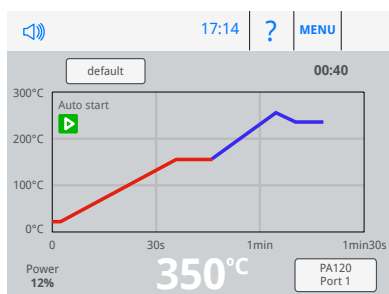HDE-C Heavy Duty station

NASE / NANE stations

Soldering Profiles for hand soldering tools

This new functionality allows you to **control the temperature of the component during all the phases of the soldering process** (preheating, soak, reflow), emulating the heating process in a reflow oven.

By using JBC soldering profiling system you can **reduce the thermal stress on components** such as multi-layer ceramic capacitors (MLCC) in accordance with IPC J-STD-001G Section 4.6 (Thermal protection).

Up to **25 dynamic profiles** can be edited to control tip temperature precisely and exported in a memory stick for future use and analysis.

➤ **Import and export:** you can save and export settings in one click and share these parameters with other factory plants.

This means you can standardize your production and achieve minimum process variance.

➤ **Traceability with JBC Net:** the system is capable of recording process conditions and the temperature profile for every electronic assembly that passes through the assembly line.

How it works?

Start mode
It indicates how to start the profile. There are two modes to choose from:

Auto-start:
The profile starts automatically when the tool is lifted from the stand. By means of the menu, you can set the time between the tool is lifted and the profile starts running ("Start delay").

Start by pedal:
The profile starts by means of the pedal. To configure the pedal settings, you must select the option "Peripherals" from the main menu.

Profile status:

STOP
Shown when the tool is ready to start the profile. The displayed time corresponds to the length of time of the profile

PLAY
Shown when the profile is running. The displayed time corresponds to the remaining time to finish the profile.

WAIT
It indicates that the profile can not be started yet because the tool has not reached the set initial conditions.
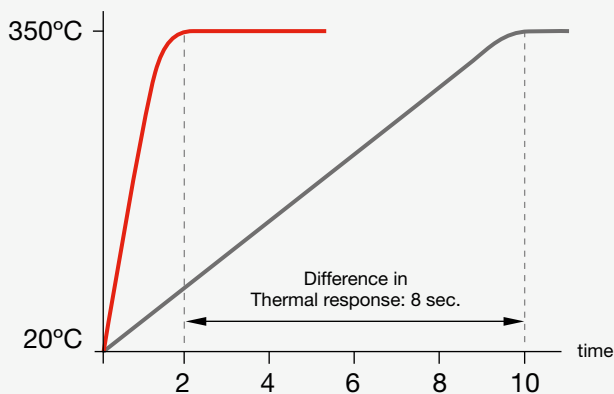
JBC

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Why JBC? **+** solutions
efficiency
productivity

Exclusive Heating System

— JBC
— Other Top brand

350°C in 2 seconds

350°C
20°C
2 4 6 8 10 time

Difference in
Thermal response: 8 sec.
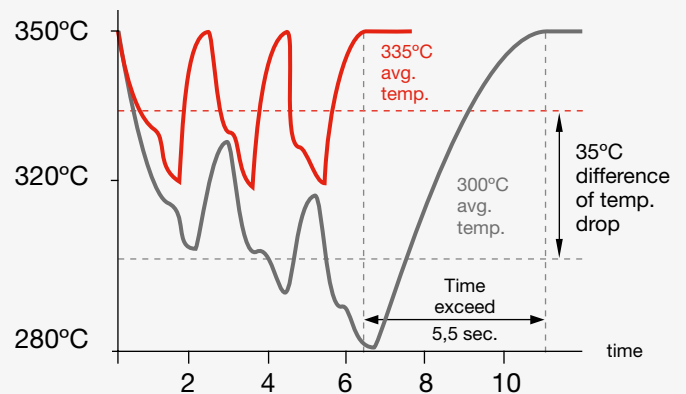
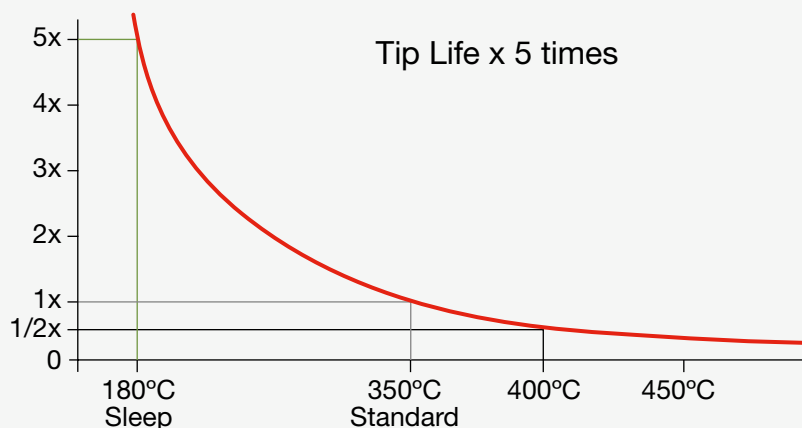JBC means you save time and increase productivity.

Efficient temperature control
Comparative process of 3 solder joints

350°C
335°C avg. temp.
320°C
300°C avg. temp.
280°C
2 4 6 8 10 time

35°C difference of temp. drop

Time exceed 5,5 sec.

JBC irons maintain an optimal temperature range
to obtain greater quality and increased productivity.

Tip Life x 5 times

5x
4x
3x
2x
1x
1/2x
0

180°C
Sleep

350°C
Standard

400°C

450°C

JBC stations features the Sleep & Hibernation functions that lower tip temperature when the tool is not being used.
As a result, a tip's life lasts up to 5 times longer. As a result, the tip life increases exponentially.

The best choice
for the electronics professional

ESD safe

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