

**JBC**

[www.jbctools.com](http://www.jbctools.com)



Feel the quality, be exclusive  
**Cartridge Guide**

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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 85 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 EDS recommendations.

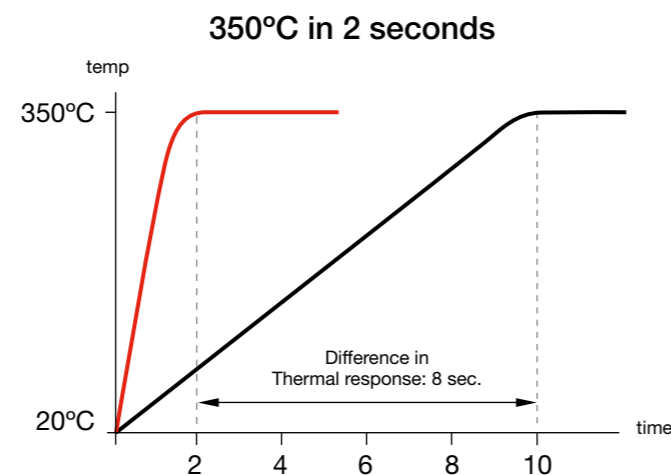


JBC Soldering SL reserves the right to update, modify or delete any information without previous notice.

## High Technology for quality soldering

### The JBC Exclusive Heating System

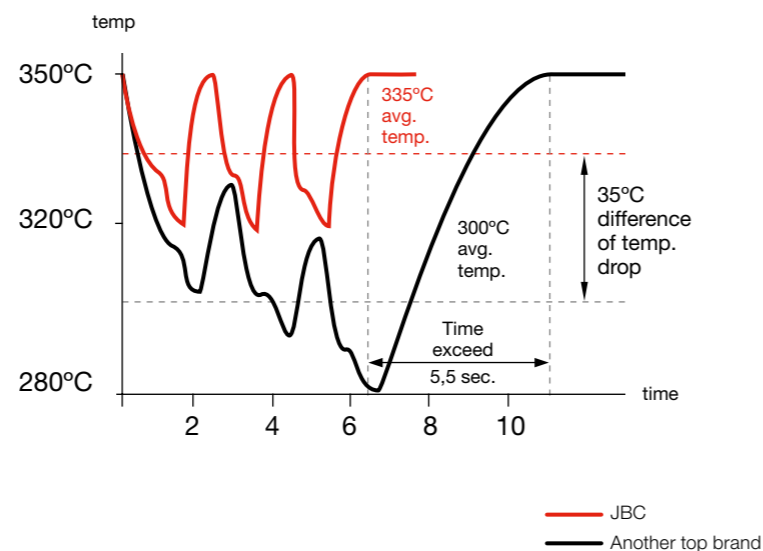
JBC's stations work with the JBC Exclusive Heating System which recovers tip temperature extremely quickly. This increases work efficiency and allows the user to work with lower temperatures.



Enhanced Temperature Efficiency → Increase Productivity + Better Quality

### Efficient Temperature Control

Comparative process of 3 solder joints



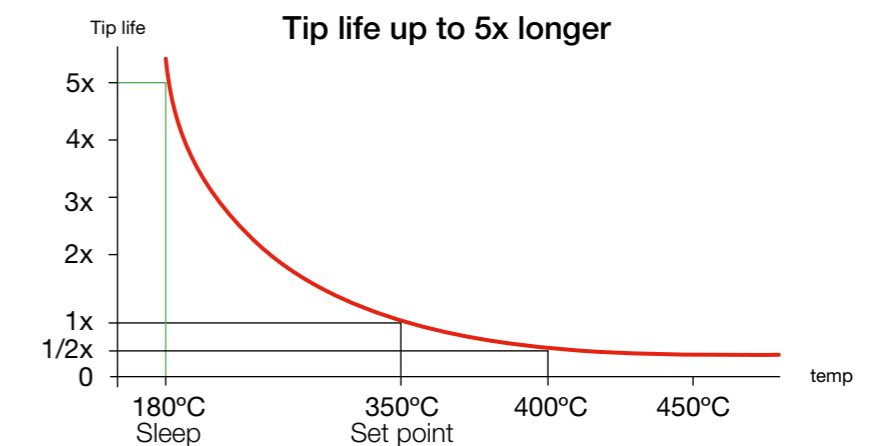
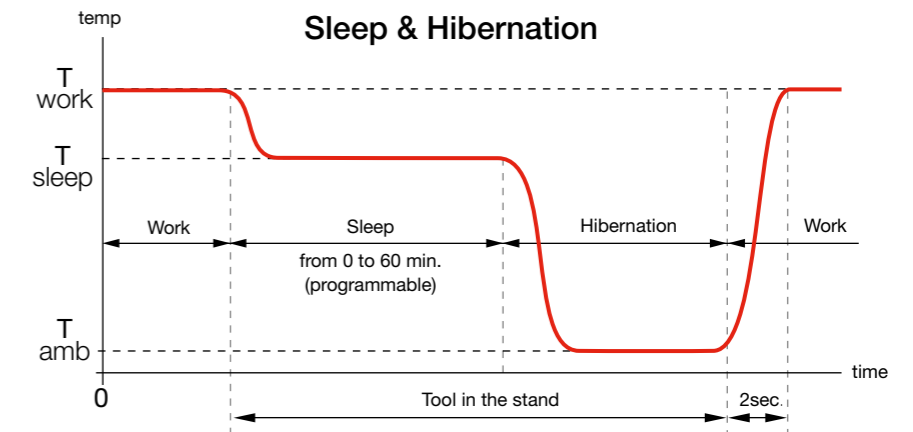
### The Intelligent Heat Management

The JBC equipment also incorporates the **Sleep & Hibernation** modes to help extend tip life by further reducing the temperature when the tool is not in use. As a result, tip life increases by 5.

The **Sleep** function automatically reduces tip temperature when the tool is in the stand.

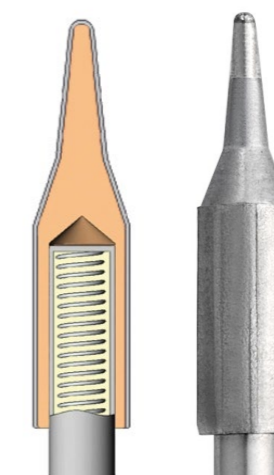
When the set time for Sleep mode is up, the station automatically goes to **Hibernation**. The power supply is cut and the tip remains at room temperature.

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 400 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.

When you start working do not forget:

## Bigger is better

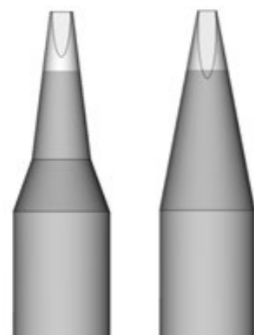
As you know, **the bigger the solder tip, the better the thermal transfer.**  
So remember to select **the biggest tip possible** for your application.

Over 400 tips of different sizes, shapes and power



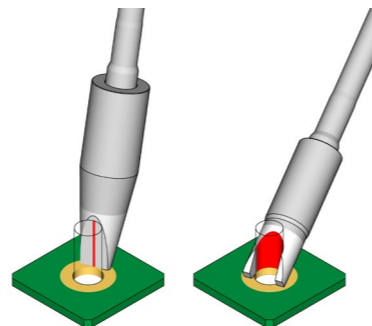
The JBC range includes models from Ø0,1 mm for precision work to the Ø15 mm for high power requirement applications.

Geometry  
Slimness vs Efficiency



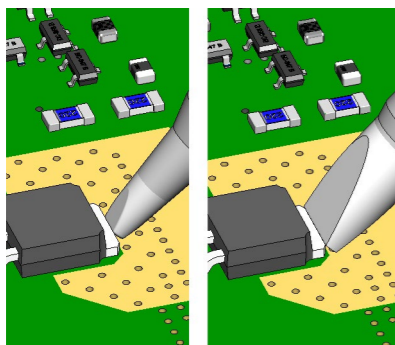
A high thermal efficient tip makes your job up to **40% faster** than a tip with a slimmer geometry.

Increase the contact surface Tip-Application



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

Largest mass possible



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

Maintain tip surface clean and tinned



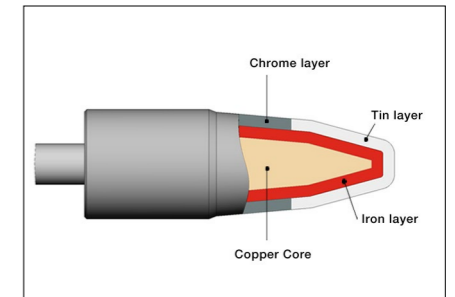
Remember that rusty and dirty surfaces reduce **heat transfer** to the solder joint.  
(See JBC's cleaning methods on pages 8-9).

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 stress on components and PCBs)

## Factors limiting life of tips

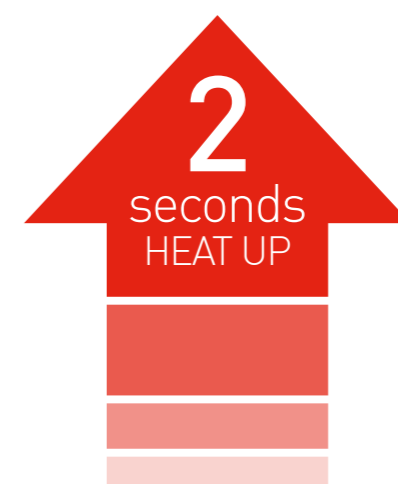
- ▶ **Working temperature**  
The higher the temperature, the higher the oxidation and the corrosion. Work at the lowest possible temperature. Use thermal efficient tools and keep tips clean of oxidation.
- ▶ **Flux and solder alloy**  
Too much active Flux can cause corrosion. IPC recommends: ROL, REL and ORL. The internal flux from small Ø solder reels might not be enough. Provide external Flux if necessary.
- ▶ **Correct soldering techniques**  
Too much pressure on the surface to solder can cause tip or plate breakage. Do not use as a pointed object or a screwdriver. Choose the biggest possible tip for each application to work at the lowest possible temperature.
- ▶ **Iron plating thickness**  
The wearing down of the plate shortens its life (hollowed-out). Do not use mechanical or chemical means to clean the tip. Use the cleaning methods provided by the manufacturer. Do not apply too much pressure.
- ▶ **Oxidization**  
Iron oxide does not wet nor transfer temperature well (dewetting). The higher the temperature, the greater the risk of oxidation. Keep tips always tinned while not in use. Use flux on your solder joints. Take advantage of SLEEP & HIBERNATION functions.



Tip structure

### Remember

- ▶ Always work at the **LOWEST POSSIBLE TEMPERATURE**.
- ▶ Uses **THERMAL EFFICIENT TOOLS**.
- ▶ Choose the **BIGGEST** tip possible.
- ▶ IPC recommends FLUX **ROL, REL and ORL**.
- ▶ Protect the tip with a **TIN COATING** when not in use.
- ▶ Use the **SLEEP & HIBERNATION** functions.
- ▶ **DO NOT** apply too much **pressure** to the tip
- ▶ Use the **CLEANING METHODS** recommended by the manufacturer.
- ▶ Only use re-tinners when absolutely necessary.



# Cleaning systems

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

Clean the tip in a fraction of a second



With automatic cleaners you get **optimal and uniform cleaning** in a very short time.

Easy to empty



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

Keep your work area clean



The splashguard helps **keep the bench always clean** and free of solder particles.

## Automatic Junior Tip Cleaner

Ref. **CLMS**

### Save space

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

### Two modes of operation

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

## Automatic Universal Tip Cleaner

Ref. **CLMU-A**

### Continuous or Sensor mode

This Cleaner is excellent for cleaning tips with different shapes and sizes. You can easily switch between sensor and continuous mode by pressing the top buttons.

## ESD Tip Cleaner

Ref. **CL8499**

### Brass wool

Ref. **CL6210**  
Very effective cleaning method. Leaves a small layer of solder on the tip preventing oxidation between cleaning.

### Tip wiper

Ref. **CL0240**  
This is the method to eliminate the excess of solder in the tip.



Brushes for CLMS  
Ref. **CLMS-A8**



Brushes for CLMU

Ref. **CLMU-A8**

Ref. **CLMU-A7**

Ref. **CLMU-P1**  
Non metal brushes

Ref. **CLMU-P7**  
Non metal brushes

### Sponge

Ref. **CL0354**

This is the softest method. Be sure to have the sponge always clean and wet, not soaked, with de-ionated water.



Our cartridge range is steadily growing as we are determined to respond to our client's specific needs cooperating closely with them to create the right solution




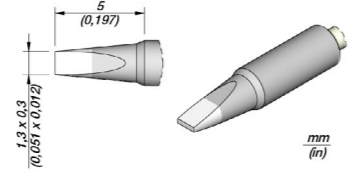
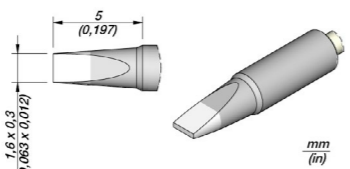
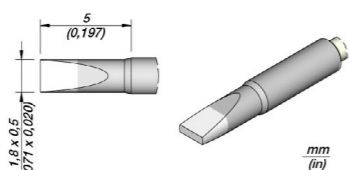
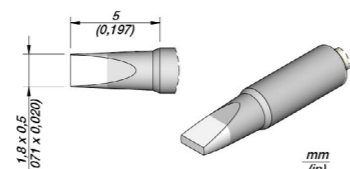
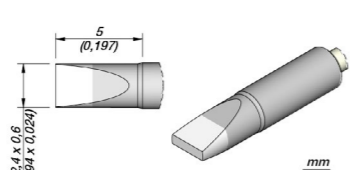
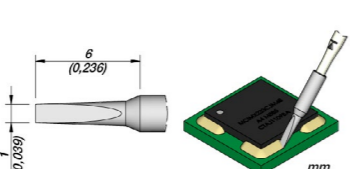
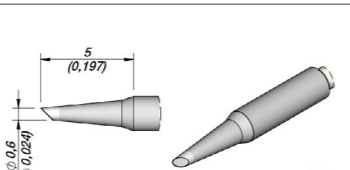
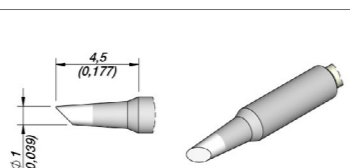
**C105 Cartridge range**  
for NP105 & NT105 Nano tools

	Ref.	Description	Image & dimensions	Suggested components	Connectables
	<b>C105-126</b>	Cartridge Conical Ø 0,1		Package 01005 Very fine pitch 0,4mm QFP, IC,	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-101</b>	Cartridge Conical Ø 0,1		Package 01005 Very fine pitch 0,4mm QFP, IC,	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-103</b>	Cartridge Conical Ø 0,3 S1		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-106</b>	Cartridge Conical Ø 0,5		Package 0603 QFP, IC, ..	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-107</b>	Cartridge Conical Ø 0,8		General use	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-124</b>	Cartridge Bent Ø 0,1 S1		Package 01005 Very fine pitch 0,4mm QFP, IC, ..	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-118</b>	Cartridge Bent Ø 0,1		Package 01005 Very fine pitch 0,4mm QFP, IC, ..	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A


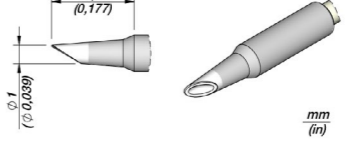
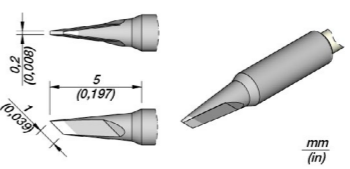
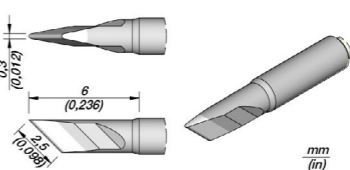
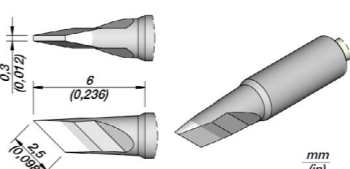
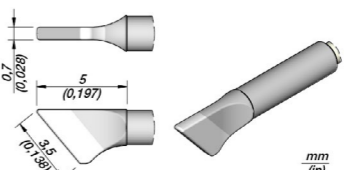
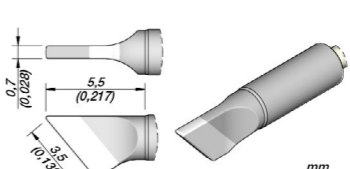
**C105 Cartridges for NP105 & NT105 Nano tools**

	Ref.	Description	Image & dimensions	Suggested components	Connectables
	<b>C105-105</b>	Cartridge Bent Ø 0,3		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-110</b>	Cartridge Bent Ø 0,5		Package 0603 QFP, IC,	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-116</b>	Cartridge Chisel 0,2 x 0,1		Package 01005, 0201 Very fine pitch 0,4mm QFP, IC, ..	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-117</b>	Cartridge Chisel 0,4 x 0,2		Package 0402 Very fine pitch 0,65mm QFP, IC, ..	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-108</b>	Cartridge Chisel 0,6 x 0,3		Package 0603 PLCC, SO, SOT,..	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-125</b>	Cartridge Chisel 1 x 0,2		Package 0805 Difficult to reach	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-113</b>	Cartridge Chisel 1 x 0,3		Package 0805 Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-213</b>	Cartridge Chisel 1 x 0,3 S1		Package 0805 Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A

**C105** Cartridges for **NP105** & **NT105** Nano tools

	Ref.	Description	Image & dimensions	Suggested components	Connectables
	<b>C105-221</b>	Cartridge Chisel 1,3 x 0,3		Package 0805 Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-222</b>	Cartridge Chisel 1,6 x 0,3		Package 0805 Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-114</b>	Cartridge Chisel 1,8 x 0,5		Package 1206, 1210 Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-214</b>	Cartridge Chisel 1,8 x 0,5 S1		Package 1206, 1210 Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-223</b>	Cartridge Chisel 2,4 x 0,6		Package 0805 Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-115</b>	Cartridge Cutter Stainless Steel 1		Stainless Steel Remove underfill encapsulants	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-109</b>	Cartridge Bevel Ø 0,6		Drag soldering SMD Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
<b>C105-127</b>	Cartridge Bevel Ø 1		Drag soldering SMD Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A	

**C105** Cartridges for **NP105** & **NT105** Nano tools

	Ref.	Description	Image & dimensions	Suggested components	Connectables
	<b>C105-128</b>	Cartridge Spoon Ø 1		Drag soldering SMD Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-120</b>	Cartridge Knife 1 x 0,2		Drag soldering SMD Package 0805 Through hole	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-112</b>	Cartridge Knife 2,5 x 0,3		Drag soldering SMD SO, SOT... Package 1210, 1812, 2010, 2512	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-212</b>	Cartridge Knife 2,5 x 0,3 S1		Drag soldering SMD SO, SOT... Package 1210, 1812, 2010, 2512	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-111</b>	Cartridge Knife 3,5 x 0,7		Package 1210, 1812 SO, SOT...	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A
	<b>C105-211</b>	Cartridge Knife 3,5 x 0,7		Package 1210, 1812 SO, SOT...	Station: NASE, NANE Tools: NP105-A NP105-B NT105-A





**C120 Cartridge** range  
for PA120 Micro Tweezers

Ref.	Description	Image & dimensions	Suggested components	Connectables
<b>C120-001</b>	Cartridge Dual in Line Ø 0,2		Package 0201, 0402	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-002</b>	Cartridge Chip Ø 0,2		Package 0201, 0402	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-902</b>	Cartridge Chip Ø 0,3		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-006</b>	Cartridge Chip Ø 0,5		Package 0603 QFP, IC, ..	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-004</b>	Cartridge Chip Ø 0,7 S1		SMD capacitors QFP, IC, .. Through hole	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-012</b>	Cartridge Chip Ø 0,7 S2		SMD capacitors QFP, IC, .. Through hole	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-011</b>	Cartridge Chip 0,6		Package 0603	Control Units: CP, DI, DDE, DME Tool: PA120-A

**C120** Cartridges for PA120 Micro Tweezers

Ref.	Description	Image & dimensions	Suggested components	Connectables
<b>C120-003</b>	Cartridge Dual in Line 3		Package 1210, 1812 SO, SOT,...	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-005</b>	Cartridge Dual in Line 5		SO, SOT,...	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-007</b>	Cartridge Dual in Line 3,5 Right		Package 1210, 1812 SO, SOT,...	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-008</b>	Cartridge Dual in Line 3,5 Left		Package 1210, 1812 SO, SOT,...	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-009</b>	Cartridge Dual in Line 6 Right		SO, SOT,...	Control Units: CP, DI, DDE, DME Tool: PA120-A
<b>C120-010</b>	Cartridge Dual in Line 6 Left		SO, SOT,...	Control Units: CP, DI, DDE, DME Tool: PA120-A



**C130 Cartridge** range  
for AP130 Solder Feed Iron

Ref.	Description	Image & dimensions	Suggested components	Connectables
<b>C130-401</b>	Cartridge Bent Ø 0,6		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-402</b>	Cartridge Bent Ø 0,8		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-403</b>	Cartridge Bent Ø 1		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-409</b>	Cartridge Bent Ø 1,7		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-410</b>	Cartridge Bent Ø 2,2		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-416</b>	Cartridge Bent Ø 3		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-417</b>	Cartridge Bent Ø 4		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A

**C130** Cartridges for AP130 Solder Feed Iron

Ref.	Description	Image & dimensions	Suggested components	Connectables
<b>C130-404</b>	Cartridge Bent 1,2 x 0,7		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-405</b>	Cartridge Bent 1,8 x 0,8		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-406</b>	Cartridge Bent 2,2 x 1		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-418</b>	Cartridge Bent 3,2 x 1,5		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A
<b>C130-419</b>	Cartridge Bent 4,8 X 1,5		Through hole General use	Control Units: CF, DI, DDE, DME Tool: AP130-A



**C210 Cartridge** range  
for **T210** Precision Purpose Handles

Ref.	Description	Image & dimensions	Suggested components	Connectables
<b>C210-020</b>	Cartridge Conical Ø 0,1		Package 01005, 0201 Very fine pitch 0,4mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-009</b>	Cartridge Conical Ø 0,2		Package 01005, 0201 Very fine pitch 0,4mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-016</b>	Cartridge Conical Ø 0,3 S1		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-001</b>	Cartridge Conical Ø 0,3 S2		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-013</b>	Cartridge Conical Ø 0,5		Package 0603 QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-003</b>	Cartridge Conical Ø 0,6		General use	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-005</b>	Cartridge Conical Ø 1		General use	Control Units: CD, DI, DDE, DME Tools: T210 range


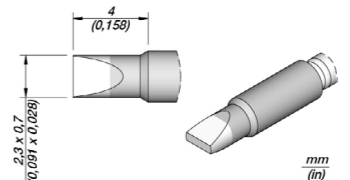
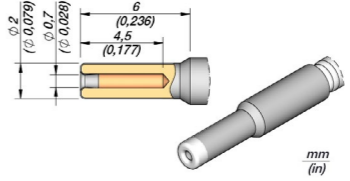
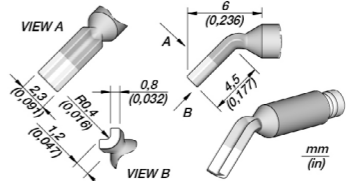
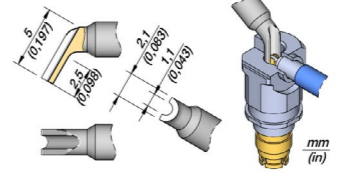
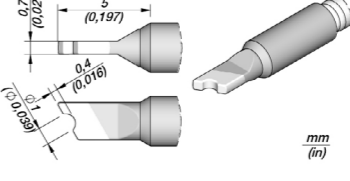

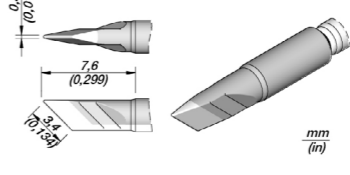
**C210** Cartridges for **T210** Precision Purpose Handles

Ref.	Description	Image & dimensions	Suggested components	Connectables
<b>C210-002</b>	Cartridge Bent Ø 0,2		Package 0201, 0402	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-010</b>	Cartridge Bent Ø 0,3		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-014</b>	Cartridge Bent Ø 0,5		Package 0603 QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-004</b>	Cartridge Bent Ø 0,7		General use	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-006</b>	Cartridge Bevel Ø 1		Drag Soldering General use	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-027</b>	Cartridge Bevel Ø 1,5		Drag Soldering General use	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-031</b>	Cartridge Bevel Ø 2		Drag Soldering General use	Control Units: CD, DI, DDE, DME Tools: T210 range
<b>C210-028</b>	Cartridge Spoon Ø 1		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T210 range

**C210** Cartridges for **T210** Precision Purpose Handles

	Ref.	Description	Image & dimensions	Suggested components	Connectables
	<b>C210-029</b>	Cartridge Spoon Ø 1,5		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-030</b>	Cartridge Spoon Ø 2		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-019</b>	Cartridge Chisel 0,2 x 0,1		Package 01005, 0201 Very fine pitch 0,4mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-023</b>	Cartridge Chisel 0,4 x 0,2		Package 0402 Very fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-021</b>	Cartridge Chisel 0,6 x 0,3		Package 0603	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-024</b>	Cartridge Chisel 0,8 x 0,3		Package 0805 Through hole	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-022</b>	Cartridge Chisel 1,3 x 0,4		Package 0805 Through hole	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-008</b>	Cartridge Chisel 1,3 x 0,6		Package 0805 Through hole	Control Units: CD, DI, DDE, DME Tools: T210 range

**C210** Cartridges for **T210** Precision Purpose Handles

	Ref.	Description	Image & dimensions	Suggested components	Connectables
	<b>C210-007</b>	Cartridge Chisel 2,3 x 0,7		Package 0805 Through hole	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-017</b>	Cartridge Pin Ø 0,7		Through hole	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-015</b>	Cartridge Pin/Connector Ø 0,8		Through hole Coaxial connector	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-025</b>	Cartridge Pin/Connector Ø 1,1		Through hole Coaxial connector	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-012</b>	Cartridge Pin/Wire Ø 1		Cables Connectors	Control Units: CD, DI, DDE, DME Tools: T210 range
	<b>C210-018</b>	Cartridge Knife 3,4 x 0,3		Drag soldering SMD SO, SOT,... Package 1210, 1812, 2010, 2512	Control Units: CD, DI, DDE, DME Tools: T210 range



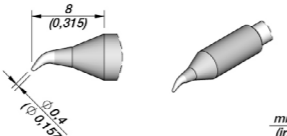
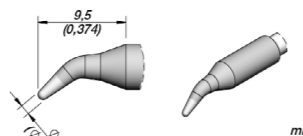
**C245 Cartridge** range  
for T245 Handles

Ref.	Description	Image	Suggested components	Connectables
<b>C245-030</b>	Cartridge Conical Ø 0,3		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-032</b>	Cartridge Conical Ø 0,4		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-036</b>	Cartridge Conical Ø 0,5 S1		Package 0603 QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-930</b>	Cartridge Conical Ø 0,5 S2		Package 0603 QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-001</b>	Cartridge Conical Ø 0,6		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-201</b>	Cartridge Conical Ø 0,6 L		Package 0603 QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-937</b>	Cartridge Conical Ø 0,6 HT		Package 0603 QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for T245 Handles

Ref.	Description	Image	Suggested components	Connectables
<b>C245-957</b>	Cartridge Conical Ø 0,8		Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-903</b>	Cartridge Conical Ø 1 S1		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-803</b>	Cartridge Conical Ø 1 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-041</b>	Cartridge Conical Ø 1 S2		General use Tip with an extra tinned surface	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-403</b>	Cartridge Conical Ø 1 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-943</b>	Cartridge Conical Ø 1,7		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-933</b>	Cartridge Conical Ø 2,2		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-107</b>	Cartridge Conical Ø 3 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-034</b>	Cartridge Bent Ø 0,4 S1		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-234</b>	Cartridge Bent Ø 0,4 S1 L		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-029</b>	Cartridge Bent Ø 0,4 S2		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-126</b>	Cartridge Bent Ø 0,4 S3		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-786</b>	Cartridge Bent Ø 0,4 S4		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-929</b>	Cartridge Bent Ø 0,6		Package 0603 QFP, IC, ..	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-935</b>	Cartridge Bent Ø 0,8		Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-904</b>	Cartridge Bent Ø 1		General use	Control Units: CD, DI, DDE, DME Tools: T245 range


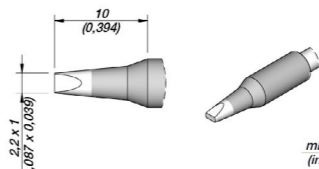
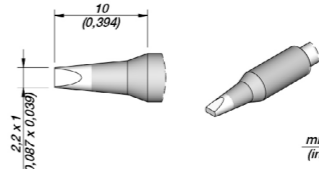
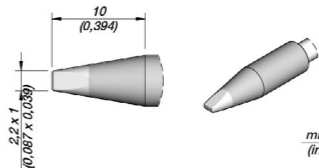
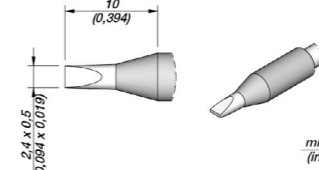
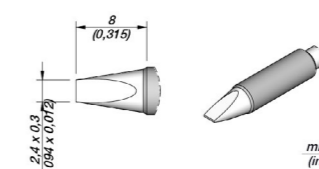
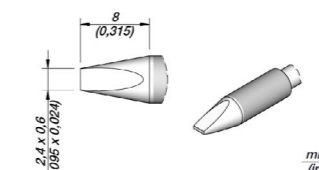
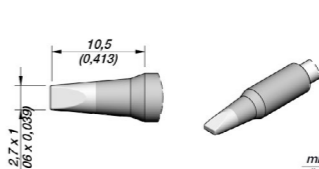
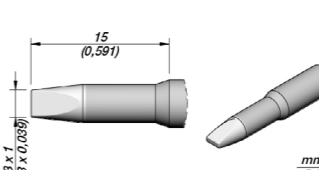
**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-804</b>	Cartridge Bent Ø 1 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-259</b>	Cartridge Bent Ø 1,5		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-260</b>	Cartridge Bent Ø 2 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-627</b>	Cartridge Bent Ø 3		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-628</b>	Cartridge Bent Ø 4 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-731</b>	Cartridge Chisel 0,6 x 0,3		Package 0603	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-773</b>	Cartridge Chisel 0,8 x 0,3		Package 0805 Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-673</b>	Cartridge Chisel 0,8 x 0,3 L		Package 0805 Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-742</b>	Cartridge Chisel 0,8 x 0,6 HT		Package 0805 Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-774</b>	Cartridge Chisel 1,2 x 0,3		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-906</b>	Cartridge Chisel 1,2 x 0,7		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-806</b>	Cartridge Chisel 1,2 x 0,7 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-406</b>	Cartridge Chisel 1,2 x 0,7 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-768</b>	Cartridge Chisel 1,5 x 0,3		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-944</b>	Cartridge Chisel 1,8 x 0,8		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-844</b>	Cartridge Chisel 1,8 x 0,8 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range


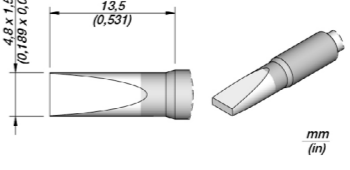
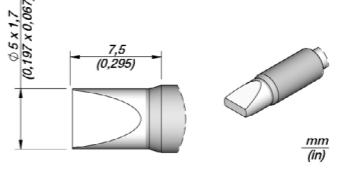
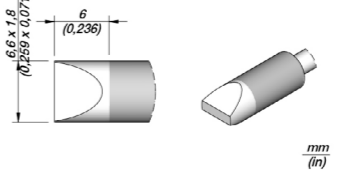

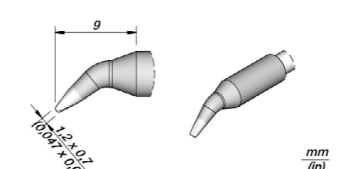
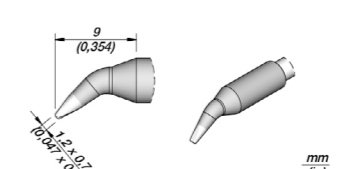
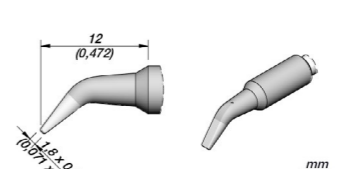
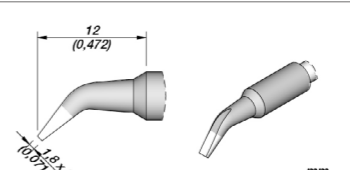
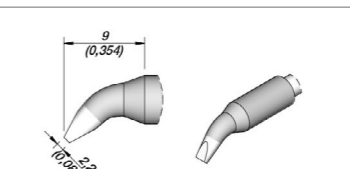
**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-907</b>	Cartridge Chisel 2,2 x 1		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-807</b>	Cartridge Chisel 2,2 x 1 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-407</b>	Cartridge Chisel 2,2 x 1 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-759</b>	Cartridge Chisel 2,4 x 0,5 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-770</b>	Cartridge Chisel 2,4 x 0,3		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-741</b>	Cartridge Chisel 2,4 x 0,6 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-729</b>	Cartridge Chisel 2,7 x 1		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-061</b>	Cartridge Chisel 3 x 1		General use	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles


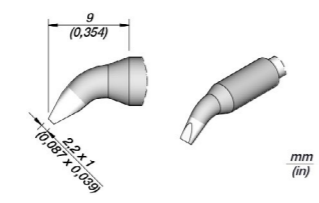
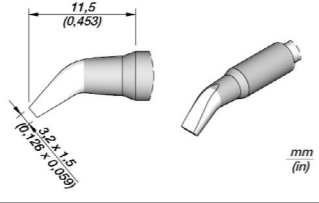
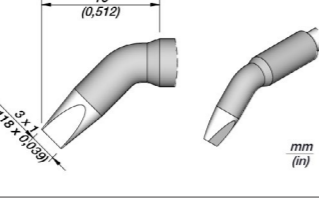
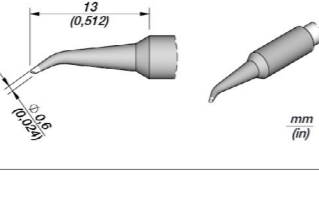
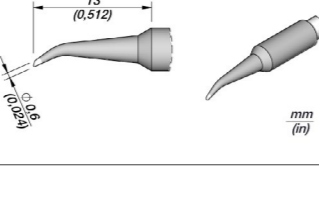

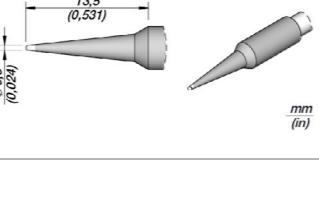
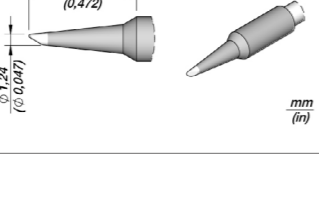
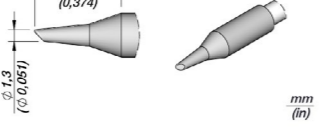
	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-261</b>	Cartridge Chisel 3 x 1 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-911</b>	Cartridge Chisel 3,2 x 1,2		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-811</b>	Cartridge Chisel 3,2 x 1,2 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-775</b>	Cartridge Chisel 3,2 x 1,2 S1		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-755</b>	Cartridge Chisel 4 x 0,8 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-756</b>	Cartridge Chisel 4,8 x 1 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-908</b>	Cartridge Chisel 4,8 x 1,5 HT S1		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-808</b>	Cartridge Chisel 4,8 x 1,5 HT L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles


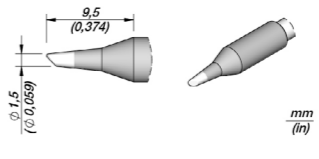
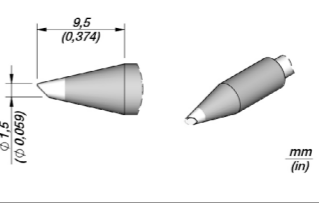
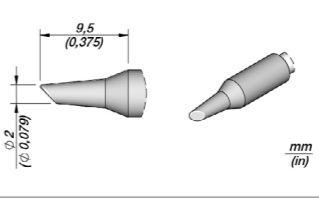
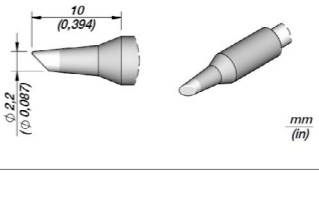
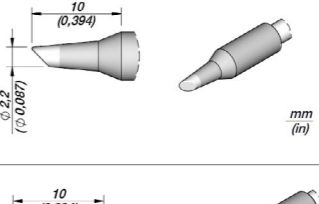
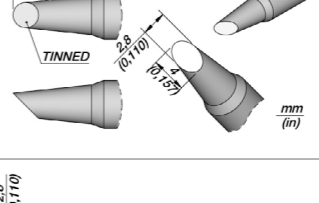
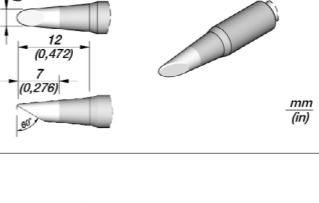
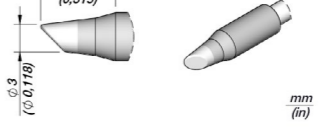
	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-708</b>	Cartridge Chisel 4,8 x 1,5 HT S2		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-069</b>	Cartridge Chisel 5 x 1,7 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-966</b>	Cartridge Chisel 6,6 x 1,8 HT		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-962</b>	Cartridge Bent 1,2 x 0,7		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-862</b>	Cartridge Bent 1,2 x 0,7 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-963</b>	Cartridge Bent 1,8 x 0,8		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-863</b>	Cartridge Bent 1,8 x 0,8 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-946</b>	Cartridge Bent 2,2 x 1,0		General use	Control Units: CD, DI, DDE, DME Tools: T245 range



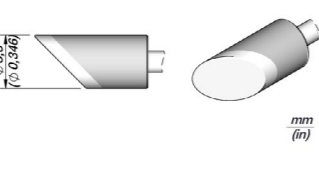
**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-846</b>	Cartridge Bent 2,2 x 1 L		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-732</b>	Cartridge Bent 3,2 x 1,5		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-761</b>	Cartridge Bent 3,0 x 1		General use	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-748</b>	Cartridge Bent Bevel Ø 0,6 S1		Package 0603 Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-749</b>	Cartridge Bent Bevel Ø 0,6 S2		Package 0603 Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-747</b>	Cartridge Bevel Ø 0,6		Package 0603 Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-710</b>	Cartridge Bevel Ø 1,2		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-064</b>	Cartridge Bevel Ø 1,3		Drag soldering Through hole Hoof tip with reduced tinned surface, ideal for tuch up	Control Units: CD, DI, DDE, DME Tools: T245 range


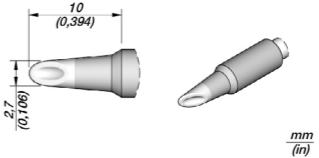
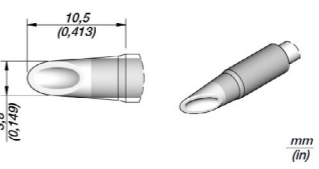
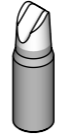
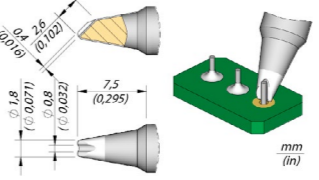
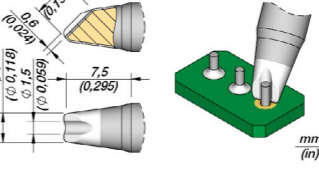
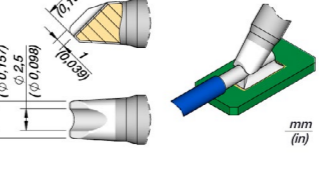
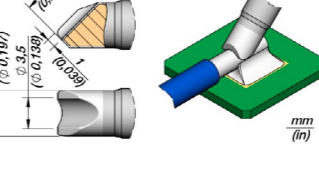
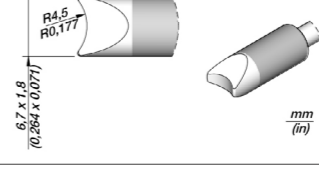

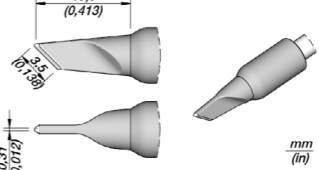
**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-905</b>	Cartridge Bevel Ø 1,5		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-405</b>	Cartridge Bevel Ø 1,5 HT		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-102</b>	Cartridge Bevel Ø 2		Drag soldering Through hole Hoof tip with reduced tinned surface, ideal for tuch up	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-945</b>	Cartridge Bevel Ø 2,2		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-845</b>	Cartridge Bevel Ø 2,2 L		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-784</b>	Cartridge Bevel Ø 2,8		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-793</b>	Cartridge Bevel Ø 2,8		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-912</b>	Cartridge Bevel Ø 3		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range


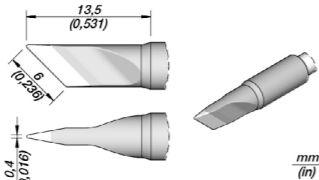
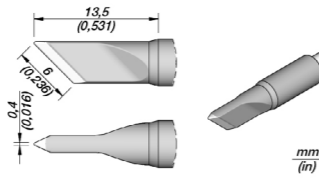
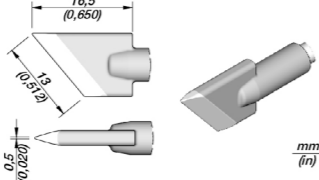
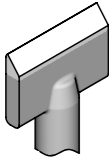
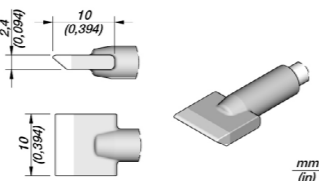
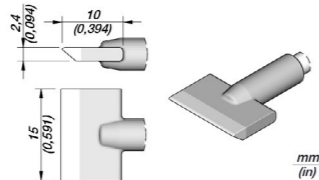
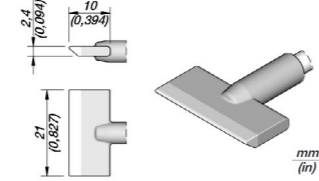
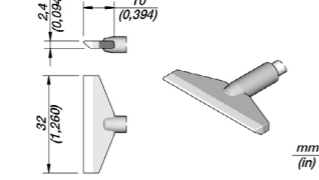
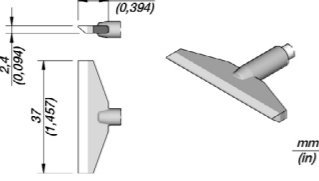
**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-812</b>	Cartridge Bevel Ø 3 L		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-056</b>	Cartridge Bevel Ø 3,5 HT		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-256</b>	Cartridge Bevel Ø 3,5 HT L		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-951</b>	Cartridge Bevel Ø 3,8 HT		Drag soldering Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-766</b>	Cartridge Bevel Ø 5		Wide area	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-301</b>	Cartridge Bevel Ø 8,8		Wide area	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-965</b>	Cartridge Spoon Ø 1,9		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-067</b>	Cartridge Spoon Ø 2,3		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T245 range

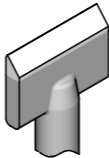
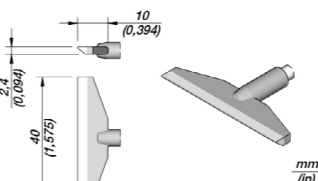
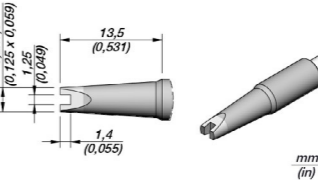

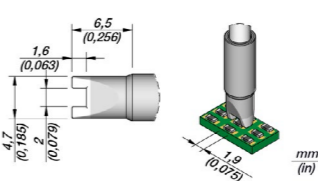
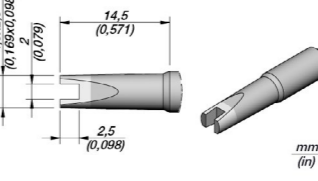
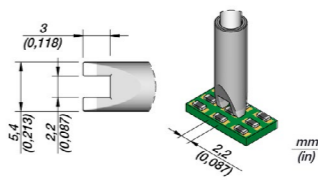
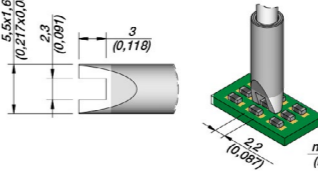
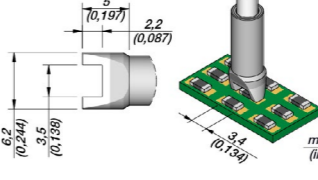
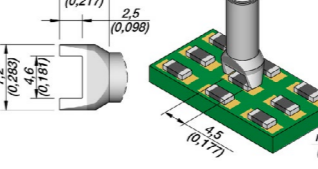
**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-931</b>	Cartridge Spoon Ø 2,7		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-938</b>	Cartridge Spoon Ø 3,8		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-790</b>	Cartridge Pin/Connector Ø 0,8		Through hole Cable sold/desol	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-785</b>	Cartridge Pin/Connector Ø 1,5		Through hole Cable sold/desol	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-763</b>	Cartridge Pin/Connector Ø 2,5		Through hole Cable sold/desol	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-760</b>	Cartridge Pin/Connector Ø 3,5		Through hole Cable sold/desol	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-762</b>	Cartridge Pin/Connector R. 4,5		Cable sold/desol	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-789</b>	Cartridge Knife 3,5 x 0,3		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles

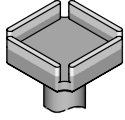
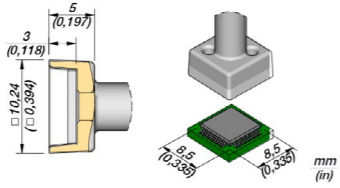
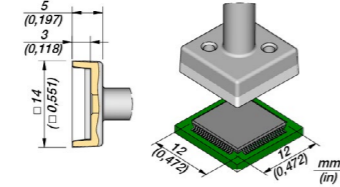
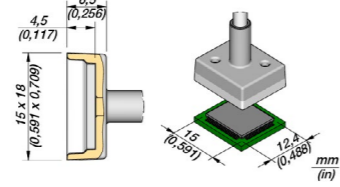
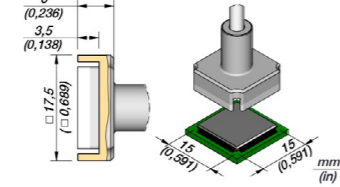
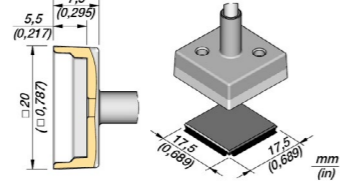
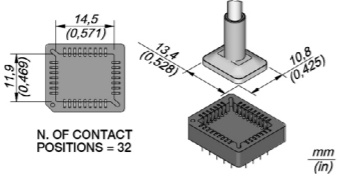
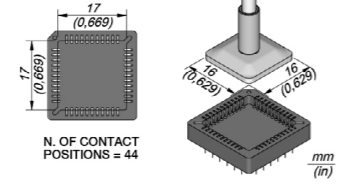

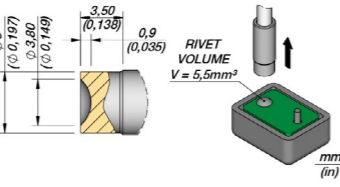
	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-939</b>	Cartridge Knife 6,0 x 0,4		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-765</b>	Cartridge Knife 6,0 x 0,4 S1		Drag soldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-955</b>	Cartridge Knife 13,0 x 0,5		Drag Soldering Conector desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-914</b>	Cartridge Blade 10 S1		Pad cleaning Conector desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-752</b>	Cartridge Blade 15		Pad cleaning Conector desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-913</b>	Cartridge Blade 21		Pad cleaning Conector desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-949</b>	Cartridge Blade 32		Pad cleaning Conector desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-776</b>	Cartridge Blade 37		Pad cleaning Conector desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-792</b>	Cartridge Blade 40		Pad cleaning Conector desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-757</b>	Cartridge Chip 1,25		SMD resistors SMD capacitors	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-016</b>	Cartridge Chip 1,9		SMD resistors SMD capacitors	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-758</b>	Cartridge Chip 2		SMD resistors SMD capacitors	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-017</b>	Cartridge Chip 2,2 S1		SMD resistors SMD capacitors	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-150</b>	Cartridge Chip 2,2 S2		SMD resistors SMD capacitors	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-018</b>	Cartridge Chip 3,4		SMD resistors SMD capacitors	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-019</b>	Cartridge Chip 4,5		SMD resistors SMD capacitors	Control Units: CD, DI, DDE, DME Tools: T245 range



**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-223</b>	Cartridge QFP 8,5 x 8,5		QFP	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-224</b>	Cartridge QFP 12 x 12		QFP	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-228</b>	Cartridge QFP 12,4 x 15		QFP	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-315</b>	Cartridge QFP 15 x 15		QFP	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-227</b>	Cartridge QFP 17,5 x 17,5		QFP	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-248</b>	Cartridge Socket 11,9 x 14,5		PLCC sockets	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-247</b>	Cartridge Socket 17 x 17		PLCC sockets	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-053</b>	Cartridge Rivet Ø 3,8		Chrome finisg, design for plastic rivets	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles

	Ref.	Description	Image	Suggested components	Connectables
	<b>C245-052</b>	Cartridge Rivet Ø 4,9		Chrome finisg, design for plastic rivets	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-054</b>	Cartridge Rivet Ø 6,5		Chrome finisg, design for plastic rivets	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-312</b>	Cartridge for Plastics Ø 3,2		Plastics	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-313</b>	Cartridge for Plastics Ø 4,1		Plastics	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-123</b>	Cartridge for Plastics 4 x 4		Plastics	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-124</b>	Cartridge for Plastics 4,25 x 2		Plastics	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-109</b>	Cartridge Cutter 4,3 x 0,1		Plastics Remove underfill encapsulants	Control Units: CD, DI, DDE, DME Tools: T245 range
	<b>C245-138</b>	Cartridge Cutter 12		Plastic Rubber cutter	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles

Ref.	Description	Image	Suggested components	Connectables
<b>C245-121</b>	Cartridge Cutter 13		Plastic Rubber cutter	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-311</b>	Cartridge for Plastics 20 x 6		Plastics	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-119</b>	Cartridge Conical Teflon Ø 1		Plastics	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-116</b>	Cartridge Pin/Connector R. 1		Through hole Coaxial connector	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-122</b>	Cartridge Pin/Connect. 1,5 x 0,5		Cylinder parts	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-764</b>	Cartridge Fine Pitch Ø 0,5		Package 0603 QFP, IC, .. Fine pitch	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-771</b>	Cartridge Bent 1 x 0,1		Cable soldering to connector Fine pitch	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-117</b>	Cartridge Flat Ø 1,45		Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range

**C245** Cartridges for **T245** Handles

Ref.	Description	Image	Suggested components	Connectables
<b>C245-118</b>	Cartridge Pin/Wire 0,4		Through hole Wire tinning	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-730</b>	Cartridge Blade 10 S2		Pad cleaning Conector desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-268</b>	Cartridge Pin/Wire 1,5		Through hole	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-136</b>	Cartridge Micro Stick Switch		Micro Stick desoldering	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-772</b>	Cartridge Nickel 1,4 x 0,7 S1		HMP soldering	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-009</b>	Cartridge S-Lead 4,5 x 1,8		Drag Soldering	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-010</b>	Cartridge J-Lead 4,5 x 1,8		Drag soldering J-lead	Control Units: CD, DI, DDE, DME Tools: T245 range
<b>C245-SP01</b>	Solder Pot Cartridge 15 x 18		Tinnig wires Desoldering Through Hole Multipin components	Control Units: CD, DI, DDE, DME Tools: T245 range



**C250 Cartridge** range  
for **AL250** Auto-Feed & **AP250** Solder Feed Irons

Ref.	Description	Image	Suggested components	Connectables
<b>C250-420</b>	Cartridge Bent Ø 0,4		Package 0201, 0402 Fine pitch 0,65mm QFP, IC, ..	Stations: AL, CA Tools: AL250-B AP250
<b>C250-401</b>	Cartridge Bent Ø 0,6		Package 0603 QFP, IC, ..	Stations: AL, CA Tools: AL250-B AP250
<b>C250-402</b>	Cartridge Bent Ø 0,8		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-403</b>	Cartridge Bent Ø 1		General use	Stations: AL, CA Tools: AL250-B, AP250
<b>C250-409</b>	Cartridge Bent Ø 1,7		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-410</b>	Cartridge Bent Ø 2,2		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-404</b>	Cartridge Bent 1,2 x 0,7		General use	Stations: AL, CA Tools: AL250-B AP250

**C250** Cartridges for **AL250** Auto-Feed & **AP250** Solder Feed Irons

Ref.	Description	Image	Suggested components	Connectables
<b>C250-405</b>	Cartridge Bent 1,8 x 0,8		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-406</b>	Cartridge Bent 2,2 x 1		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-418</b>	Cartridge Ben 3,2 x 1,5		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-412</b>	Cartridge Bent 4,8 x 1,5		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-407</b>	Cartridge Chisel 1,2 x 0,7		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-408</b>	Cartridge Chisel 2,2 x 1 S1		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-413</b>	Cartridge Chisel 2,2 x 1 S2		General use	Stations: AL, CA Tools: AL250-B AP250
<b>C250-411</b>	Cartridge Chisel 4,8 x 1,5		General use	Stations: AL, CA Tools: AL250-B AP250

**C250** Cartridges for **AL250** Auto-Feed & **AP250** Solder Feed Irons

Ref.	Description	Image	Suggested components	Connectables
<b>C250-414</b>	Cartridge Bevel Ø 2,2		Drag soldering Through hole	Stations: AL, CA Tools: AL250-B AP250
<b>C250-415</b>	Cartridge Bevel Ø 3,8		Drag soldering Through hole	Stations: AL, CA Tools: AL250-B AP250

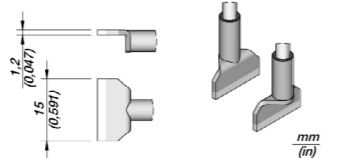
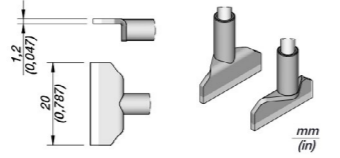
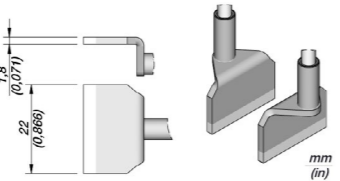
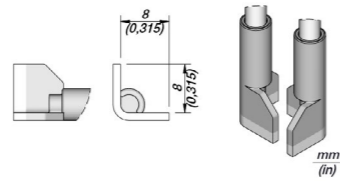
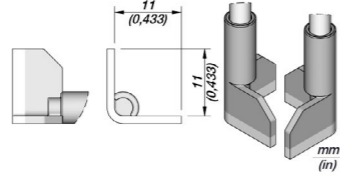
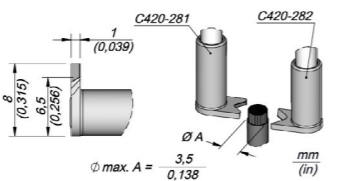
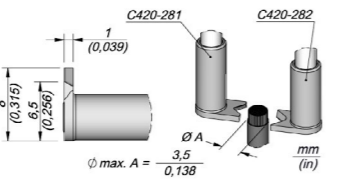
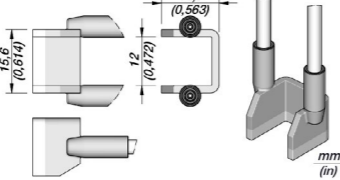


**C420 Cartridge** range  
for **HT420** Thermal Tweezers

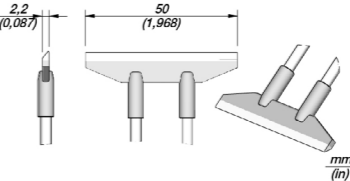
Ref.	Description	Image	Suggested components	Connectables
<b>C420-271</b>	Cartridge Chip 1,5		SMD resistors SMD capacitors	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-287</b>	Cartridge Chip 2		Special	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-272</b>	Cartridge Chip 2,6		SMD resistors SMD capacitors	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-273</b>	Cartridge Dual in Line 4		Package 1210, 1812 SO, SOT,... DIP	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-274</b>	Cartridge Dual in Line 6		DIP IC	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-275</b>	Cartridge Dual in Line 8		DIP IC	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-276</b>	Cartridge Dual in Line 10		DIP IC	Control Units: DI, DDE, DME Tool: HT420-A



**C420** Cartridges for **HT420** Thermal Tweezers


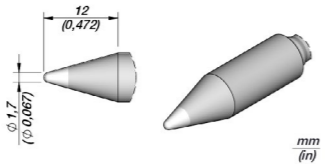

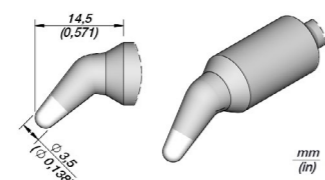

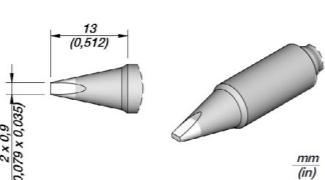
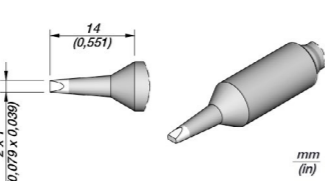
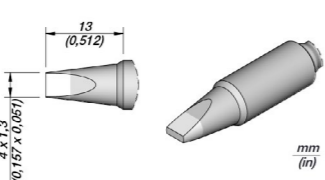
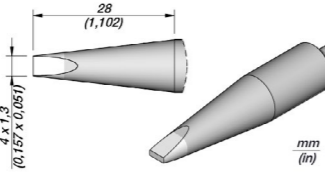
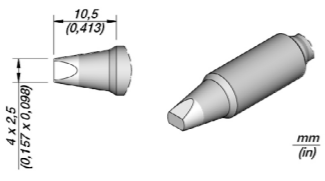
Ref.	Description	Image	Suggested components	Connectables
<b>C420-277</b>	Cartridge Dual in Line 15		DIP IC	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-278</b>	Cartridge Dual in Line 20		DIP IC	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-285</b>	Cartridge Dual in Line 22		QFP PLCC	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-279</b>	Cartridge QFP 8		QFP PLCC	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-280</b>	Cartridge QFP 11		QFP PLCC	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-281</b>	Cartridge Stripper Inf. Ø 3,5 Max		Wire stripper	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-282</b>	Cartridge Stripper Sup. Ø 3,5 Max		Wire stripper	Control Units: DI, DDE, DME Tool: HT420-A
<b>C420-286</b>	Cartridge "U" Shape 15,6 x 14,3		Special	Control Units: DI, DDE, DME Tool: HT420-A

**C420** Cartridges for **HT420** Thermal Tweezers


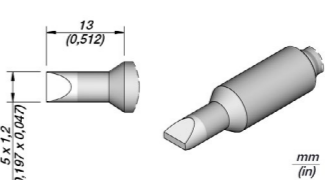
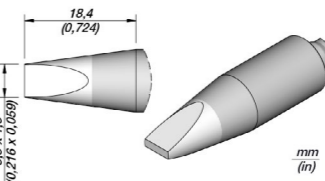
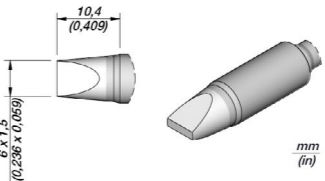
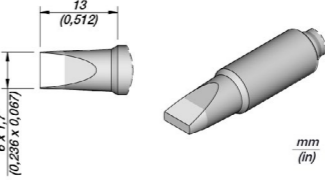
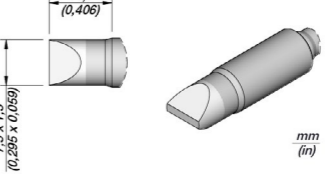
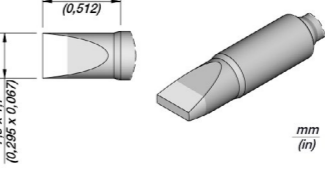
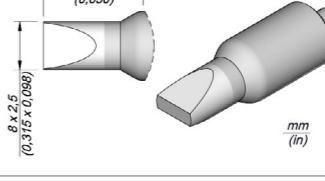
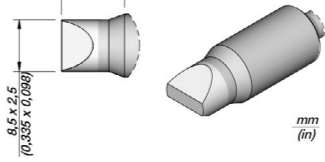
Ref.	Description	Image	Suggested components	Connectables
<b>C420-283</b>	Cartridge Blade 50		Pad cleaning Connector desoldering	Control Units: DI, DDE, DME Tool: HT420-A




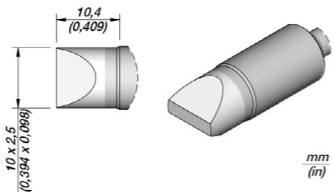
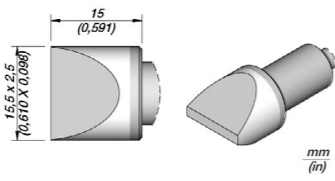
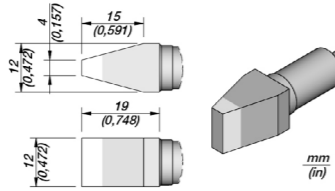
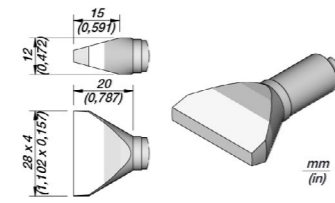

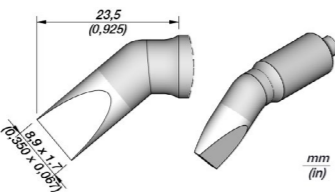
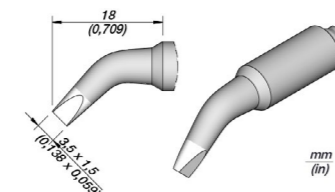

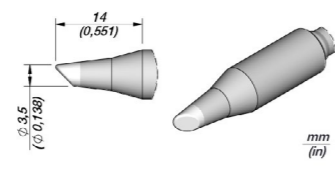
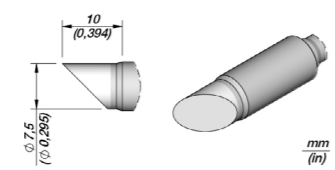
**C470 Cartridge** range  
for **T470** HD Handles and **HT470** HD Thermal Tweezers

	Ref.	Description	Image	Suggested components	Connectables
	<b>C470-001</b>	Cartridge Conical Ø 1,7		General use	Station: HDE Tools: T470 range
	<b>C470-008</b>	Cartridge Bent Ø 3,5		General use	Station: HDE Tools: T470 range
	<b>C470-013</b>	Cartridge Chisel 2 x 0,9		General use	Station: HDE Tools: T470 range
	<b>C470-036</b>	Cartridge Chisel 2 x 1		General use	Station: HDE Tools: T470 range
	<b>C470-014</b>	Cartridge Chisel 4 x 1,3 S1		General use	Station: HDE Tools: T470 range
	<b>C470-040</b>	Cartridge Chisel 4 x 1,3 S2		General use	Station: HDE Tools: T470 range
	<b>C470-035</b>	Cartridge Chisel 4 x 2,5		General use	Station: HDE Tools: T470 range

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

	Ref.	Description	Image	Suggested components	Connectables
	<b>C470-017</b>	Cartridge Chisel 5 x 1,2		General use	Station: HDE Tools: T470 range
	<b>C470-009</b>	Cartridge Chisel 5,5 x 1,5		General use Sheet metal	Station: HDE Tools: T470 range
	<b>C470-002</b>	Cartridge Chisel 6 x 1,5		General use Sheet metal	Station: HDE Tools: T470 range
	<b>C470-015</b>	Cartridge Chisel 6 x 1,7		General use	Station: HDE Tools: T470 range
	<b>C470-004</b>	Cartridge Chisel 7,5 x 1,5		General use Sheet metal	Station: HDE Tools: T470 range
	<b>C470-016</b>	Cartridge Chisel 7,5 x 1,7		General use	Station: HDE Tools: T470 range
	<b>C470-058</b>	Cartridge Chisel 8 x 2,5		General use Sheet metal	Station: HDE Tools: T470 range
	<b>C470-039</b>	Cartridge Chisel 8,5 x 2,5		General use Sheet metal	Station: HDE Tools: T470 range

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

	Ref.	Description	Image	Suggested components	Connectables
	<b>C470-006</b>	Cartridge Chisel 10 x 2,5		General use Sheet metal	Station: HDE Tools: T470 range
	<b>C470-007</b>	Cartridge Chisel 15,5 x 2,5		General use Sheet metal	Station: HDE Tools: T470 range
	<b>C470-021</b>	Cartridge Chisel 12 x 4		Sheet metal General use	Station: HDE Tools: T470 range
	<b>C470-022</b>	Cartridge Chisel 28 x 4		Sheet metal	Station: HDE Tools: T470 range
	<b>C470-018</b>	Cartridge Bent 8,9 x 1,7		General use Sheet metal	Station: HDE Tools: T470 range
	<b>C470-034</b>	Cartridge Bent 3,5 x 1,5		General use	Station: HDE Tools: T470 range
	<b>C470-019</b>	Cartridge Bevel Ø 3,5		General use	Station: HDE Tools: T470 range
	<b>C470-003</b>	Cartridge Bevel Ø 7,5		General use Sheet metal	Station: HDE Tools: T470 range

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

	Ref.	Description	Image	Suggested components	Connectables
	<b>C470-056</b>	Cartridge Bevel Ø 10		Wide area Shield desoldering Sheet metal	Station: HDE Tools: T470 range
	<b>C470-005</b>	Cartridge Flat Ø 15		Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470 range
	<b>C470-044</b>	Cartridge Flat 10 x 15		Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470 range
	<b>C470-057</b>	Cartridge Flat 20 x 30		Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470 range
	<b>C470-028</b>	Cartridge Pin / Connector Ø 1,2		Cable Through hole	Station: HDE Tools: T470 range
	<b>C470-031</b>	Cartridge Pin / Connector Ø 3,2		Cable Through hole	Station: HDE Tools: T470 range
	<b>C470-048</b>	Cartridge Pin / Connector Ø 3,4		Cable Through hole	Station: HDE Tools: T470 range
	<b>C470-049</b>	Cartridge Pin / Connector Ø 5,2		Cable Through hole	Station: HDE Tools: T470 range

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

Ref.	Description	Image	Suggested components	Connectables
<b>C470-055</b>	Cartridge Pin / Connector Ø 4		Cable Through hole	Station: HDE Tools: T470 range
<b>C470-033</b>	Cartridge Pin / Connector Ø 3,65		Cable Through hole	Station: HDE Tools: T470 range
<b>C470-030</b>	Cartridge Pin / Connector Ø 5		Cable Through hole	Station: HDE Tools: T470 range
<b>C470-037</b>	Cartridge Pin / Connector Ø 8		Cable Through hole	Station: HDE Tools: T470 range
<b>C470-047</b>	Cartridge Pin / Connector Ø 14		Cable Through hole	Station: HDE Tools: T470 range
<b>C470-052</b>	Cartridge Pin / Connector R. 8,5		Cables connectors	Station: HDE Tools: T470 range
<b>C470-010</b>	Cartridge Pin / Connector R. 8		Cables connectors	Station: HDE Tools: T470 range
<b>C470-029</b>	Cartridge Pin / Connector R. 31		Connectors	Station: HDE Tools: T470 range

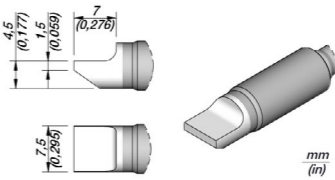
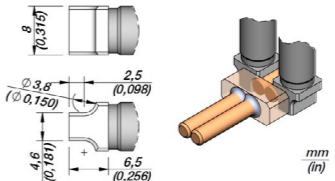
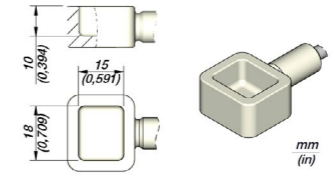
**C470** Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

Ref.	Description	Image	Suggested components	Connectables
<b>C470-041</b>	Cartridge Pin / Connector Ø 12,5		Cable Through hole	Station: HDE Tools: T470 range
<b>C470-042</b>	Cartridge Pin / Connector Ø 4,8		Cable Through hole	Station: HDE Tools: T470 range
<b>C470-012</b>	Cartridge Pin / Connector R. 6 S1		Cables Connectors	Station: HDE Tools: T470 range
<b>C470-038</b>	Cartridge Pin / Connector R. 6 S2		Wide area Cables Connectors	Station: HDE Tools: T470 range
<b>C470-020</b>	Cartridge Pin Ø 2,4		Through hole	Station: HDE Tools: T470 range
<b>C470-045</b>	Cartridge Pin Ø 3,5		Through hole Male connector	Station: HDE Tools: T470 range
<b>C470-011</b>	Cartridge Hook Ø 4,2		Difficult to reach	Station: HDE Tools: T470 range
<b>C470-064</b>	Cartridge Blade 10		Pad cleaning Connector desoldering	Station: HDE Tools: T470 range

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


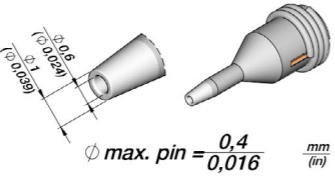
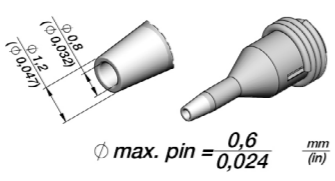
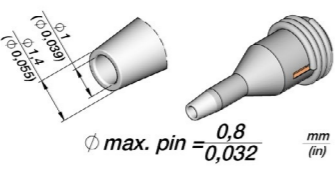
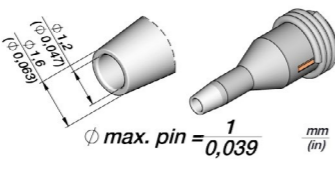
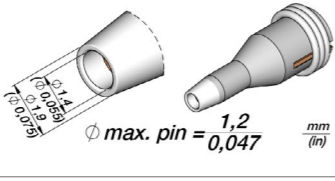
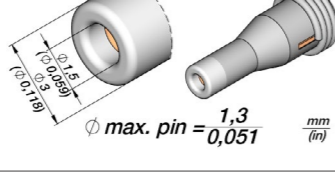

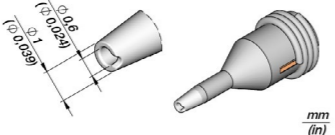
	Ref.	Description	Image	Suggested components	Connectables
	<b>C470-059</b>	Cartridge Blade 20		Pad cleaning Connector desoldering	Station: HDE Tools: T470 range
	<b>C470-023</b>	Cartridge Blade 32		Pad cleaning Connector desoldering	Station: HDE Tools: T470 range
	<b>C470-051</b>	Cartridge Blade Split 21		Connectors	Station: HDE Tools: T470 range
	<b>C470-025</b>	Cartridge for Plastics Ø 1,7		Plastics	Station: HDE Tools: T470 range
	<b>C470-026</b>	Cartridge for Plastics Ø 3,5		Plastics	Station: HDE Tools: T470 range
	<b>C470-032</b>	Cartridge for Plastics Ø 9		Plastics	Station: HDE Tools: T470 range
	<b>C470-027</b>	Cartridge Shield 43 x 20		Shield desoldering	Station: HDE Tools: T470 range
	<b>C470-043</b>	Cartridge Groove 1,1 x 10		Wire soldering	Station: HDE Tools: T470 range

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


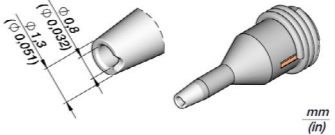
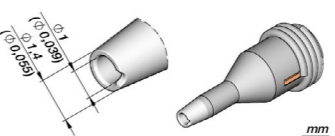
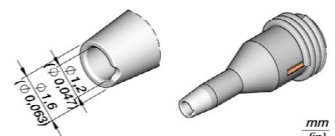
	Ref.	Description	Image	Suggested components	Connectables
	<b>C470-046</b>	Cartridge Single Flat 7,5		General use Sheet metal	Station: HDE Tools: T470 range
	<b>C470-050</b>	Cartridge Pin / Connector Ø 3,8		Cable Connectors	Station: HDE Tools: T470 range
	<b>C470-SP01</b>	Solder Pot Cartridge 15 x 18		Tinnig wires Desoldering Through Hole Multipin components	Station: HDE Tools: T470 range



**C360 Tips** range  
for **DS360** Micro Desoldering Iron

	Ref.	Description	Image	Suggested components	Connectables
	<b>C360-001</b>	Micro Desoldering Tip Ø 0,6	 $\phi \text{ max. pin} = \frac{0,4}{0,016} \frac{\text{mm}}{\text{(in)}}$	Through hole Desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)
	<b>C360-002</b>	Micro Desoldering Tip Ø 0,8	 $\phi \text{ max. pin} = \frac{0,6}{0,024} \frac{\text{mm}}{\text{(in)}}$	Through hole Desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)
	<b>C360-003</b>	Micro Desoldering Tip Ø 1	 $\phi \text{ max. pin} = \frac{0,8}{0,032} \frac{\text{mm}}{\text{(in)}}$	Through hole Desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)
	<b>C360-004</b>	Micro Desoldering Tip Ø 1,2	 $\phi \text{ max. pin} = \frac{1}{0,039} \frac{\text{mm}}{\text{(in)}}$	Through hole Desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)
	<b>C360-007</b>	Micro Desoldering Tip Ø 1,4	 $\phi \text{ max. pin} = \frac{1,2}{0,047} \frac{\text{mm}}{\text{(in)}}$	Through hole Desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)
	<b>C360-006</b>	Micro Desoldering Tip Ø 1,5	 $\phi \text{ max. pin} = \frac{1,3}{0,051} \frac{\text{mm}}{\text{(in)}}$	Through hole Desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)
	<b>C360-011</b>	Micro Desoldering Tip Ø 0,6 Pad	 $\phi \text{ max. pin} = \frac{0,6}{0,024} \frac{\text{mm}}{\text{(in)}}$	Pad desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)

**C360** Tips for **DS360** Micro Desoldering Iron

	Ref.	Description	Image	Suggested components	Connectables
	<b>C360-012</b>	Micro Desoldering Tip Ø 0,8 Pad	 $\phi \text{ max. pin} = \frac{0,8}{0,032} \frac{\text{mm}}{\text{(in)}}$	Pad desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)
	<b>C360-013</b>	Micro Desoldering Tip Ø 1 Pad	 $\phi \text{ max. pin} = \frac{1}{0,039} \frac{\text{mm}}{\text{(in)}}$	Pad desoldering	Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump)
	<b>C360-014</b>	Micro Desoldering Tip Ø 1,2 Pad	 $\phi \text{ max. pin} = \frac{1,2}{0,047} \frac{\text{mm}}{\text{(in)}}$	Pad desoldering	Control Units: CV, DI, DDE, DME Tool: S360-A Modules: MVE / MSE (Pump)



**C560 Tips** range  
for **DR560** Desoldering Iron

Ref.	Description	Image	Suggested components	Connectables
<b>C560-001</b>	Desoldering Tip Ø 0,6 HT	 $\phi \text{ max. pin} = 0,16 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-002</b>	Desoldering Tip Ø 0,8 HT	 $\phi \text{ max. pin} = 0,24 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-014</b>	Desoldering Tip Ø 0,8	 $\phi \text{ max. pin} = 0,24 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-003</b>	Desoldering Tip Ø 1	 $\phi \text{ max. pin} = 0,32 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-017</b>	Desoldering Tip Ø 1,1	 $\phi \text{ max. pin} = 1,0 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-004</b>	Desoldering Tip Ø 1,3	 $\phi \text{ max. pin} = 1,1 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-009</b>	Desoldering Tip Ø 1,3	 $\phi \text{ max. pin} = 1,1 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)

**C560** Tips for **DR560** Desoldering Iron

Ref.	Description	Image	Suggested components	Connectables
<b>C560-005</b>	Desoldering Tip Ø 1,5	 $\phi \text{ max. pin} = 1,3 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-006</b>	Desoldering Tip Ø 1,9	 $\phi \text{ max. pin} = 1,7 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-007</b>	Desoldering Tip Ø 2,4	 $\phi \text{ max. pin} = 2,2 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-015</b>	Desoldering Tip Ø 3	 $\phi \text{ max. pin} = 2,8 \frac{\text{mm}}{\text{in}}$	Through hole Desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-011</b>	Desoldering Tip Ø 0,6 HT Pad	 $\frac{\text{mm}}{\text{in}}$	Pad desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-012</b>	Desoldering Tip Ø 0,8 HT Pad	 $\frac{\text{mm}}{\text{in}}$	Pad desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
<b>C560-013</b>	Desoldering Tip Ø 1 Pad	 $\frac{\text{mm}}{\text{in}}$	Pad desoldering	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)







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