



JBC

www.jbctools.com

Cartridge
guide

Believe in Innovation
Enjoy the power

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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.



ESD safe

All JBC products comply with CE standards and EDS recommendations.



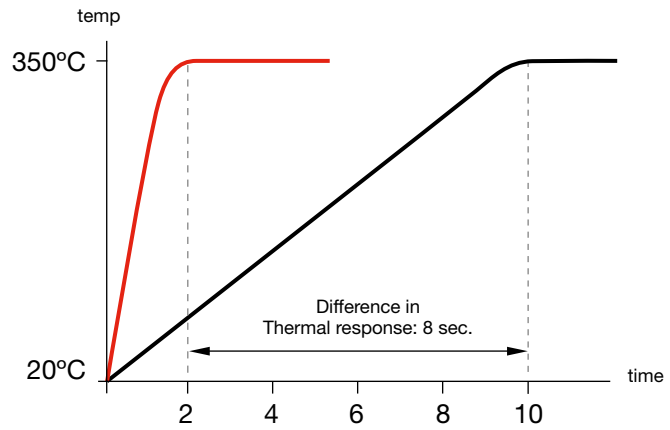
JBC Soldering SL. reserves the right to update, modify or delete any information without previous notice.

High Technology for **quality** soldering

The **JBC** Exclusive Heating System

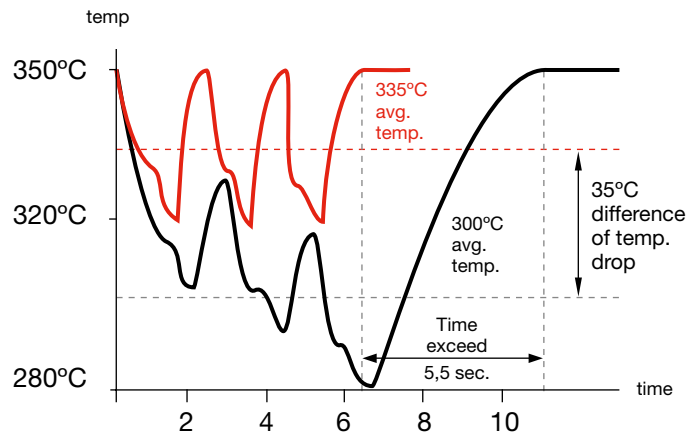
JBC's stations work with the JBC Exclusive Heating System which recovers tip temperature extremely quickly. This increases work efficiency and allows the user to work with lower temperatures.

350°C in 2 seconds



Efficient Temperature Control

Comparative process of 3 solder joints



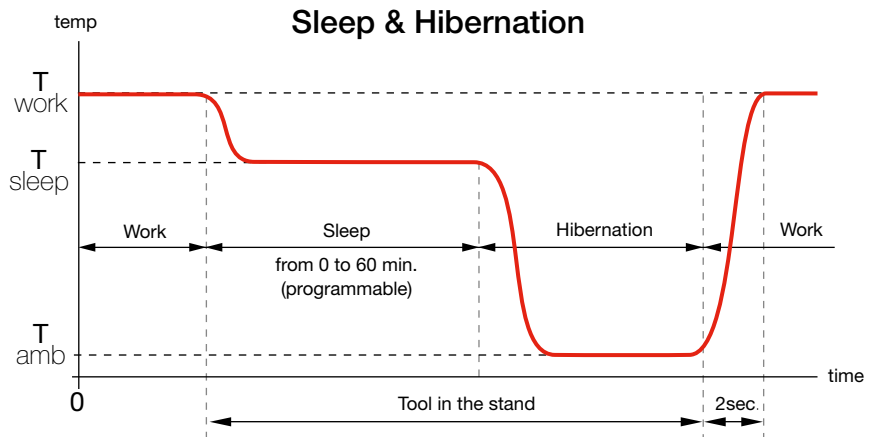
— JBC
— Another top brand

The Intelligent Heat Management

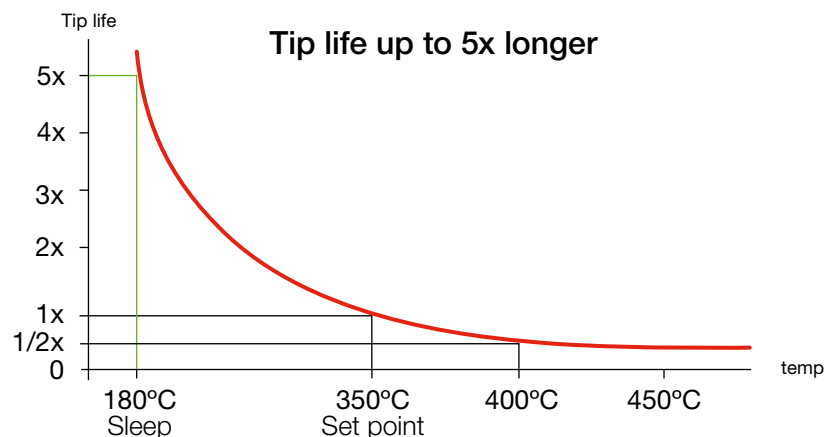
The JBC equipment also incorporates the **Sleep & Hibernation** modes to help extend tip life by further reducing the temperature when the tool is not in use. As a result, tip life increases by 5.

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.

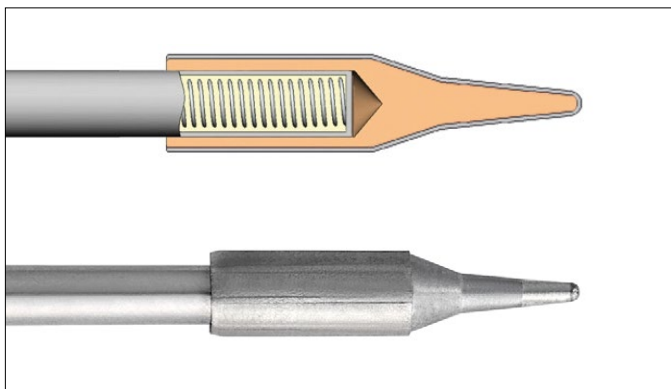


Tip life increases exponentially by using lower temperatures as shown. Using the **Sleep** mode the temperature is further reduced, which extends tip life by 5.



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.** This way you will be able to:

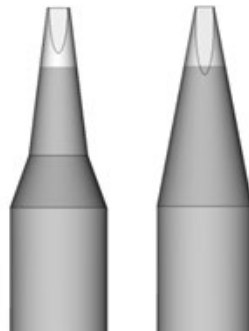
- ▶ Work at **lower temperatures** (350°)
- ▶ Improve **thermal performance**
- ▶ Reduce **collateral damage** (thermal stress on components and PCBs)
- ▶ Obtain **better results** in less time
- ▶ Increase **temperature precision**

Over 400 tips of different sizes, shapes and power



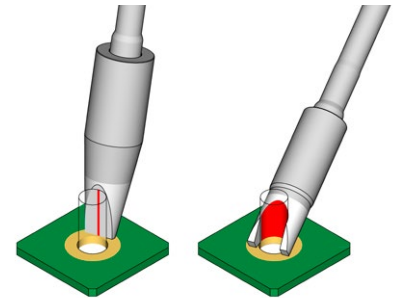
The JBC range includes models from Ø0,1 mm for precision work to the Ø15 mm for high power requirement applications.

Geometry
Slimness vs Efficiency



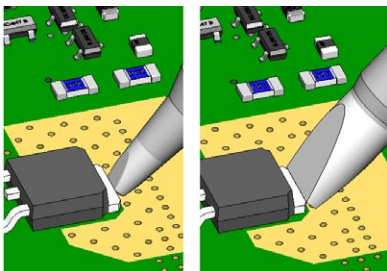
A high thermal efficient tip makes your job up to **40% faster** than a tip with a slimmer geometry.

Increasing 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 the JBC cleaning methods on last pages).

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.

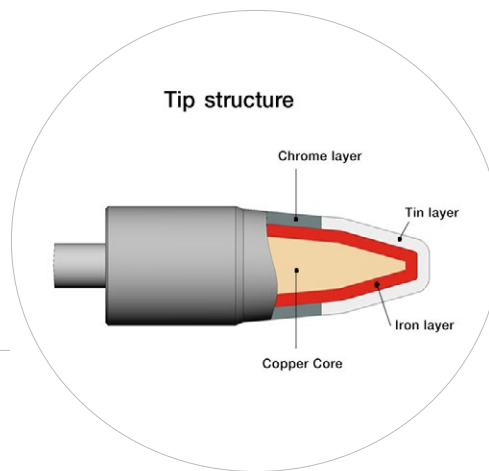
Do not apply too much pressure.

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.



- ▶ 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

For a good thermal transfer, we must keep the tip clean of oxidizing and solder remains.

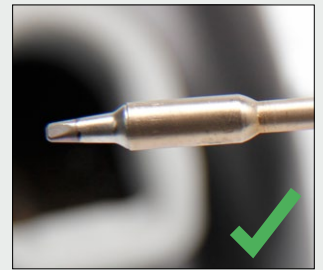
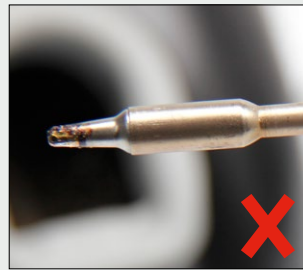
Clean the tip in a fraction of a second

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



Improve heat transfer

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



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

CLMS-A Automatic Junior Tip Cleaner

Two modes of operation

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

Save space

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

Splashguard

Switch ON



CLMS-A8
Brushes for CLMS-A



CLMB-A Automatic

Sensor detection

Two motorized brushes start working when the sensors detect the tip at the window.

Sensors



CLMB-A8
Brushes for
CLMB-A

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.



Senior Tip Cleaner

CL9885 · Tip Cleaner

Splashguard



Designed to be used at the **workbench**.

Splashguard
Minimises splashing of solder particles.

CL6210 Brass wool

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



CL0236 Tip wiper

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

CL0354 Sponge

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

Vertical Access

This innovative tip cleaner features a second position a second position which facilitates working **with robots**.


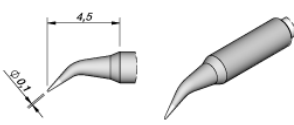
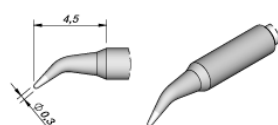
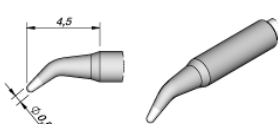

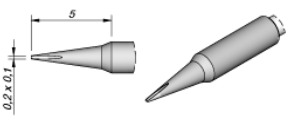
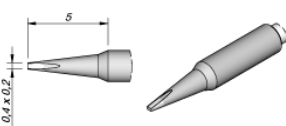
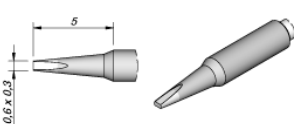
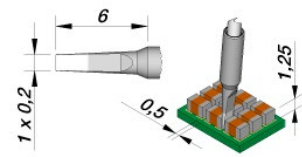




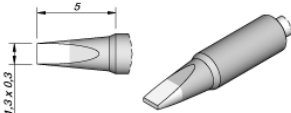
C105 Cartridge range
for NP105 & NT105 Nano tools

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|------------------------------|-------|--|----------------|--|
| C105-126 | Cartridge Conical Ø0,1 | | Package 01005 Very fine pitch 0,4mm QFP, IC, | Ø 0,1 mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| C105-101 | Cartridge Conical Ø0,1 | | Package 01005 Very fine pitch 0,4mm QFP, IC, | Ø 0,1 mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| C105-103 | Cartridge Conical Ø0,3 S1 | | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø 0,3 mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| C105-106 | Cartridge Conical Ø0,5 | | Package 0603 QFP, IC, .. | Ø 0,5 mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| C105-107 | Cartridge Conical Ø0,8 | | General use | Ø 0,8 mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| C105-124 | Cartridge Bent Ø0,1 S1 | | Package 01005 Very fine pitch 0,4mm QFP, IC, .. | Ø0,1mm | Station: NASE Tools: NP105-A NP105-B NT105-A |

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

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-----------------------------|---|---|----------------|--|
|  | C105-118 | Cartridge Bent Ø0,1 |  | Package 01005 Very fine pitch 0,4mm QFP, IC, .. | Ø0,1mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-105 | Cartridge Bent Ø0,3 |  | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø 0,3 mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-110 | Cartridge Bent Ø0,5 |  | Package 0603 QFP, IC, .. | Ø0,5mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
|  | C105-116 | Cartridge Chisel 0,2x0,1 |  | Package 01005, 0201 Very fine pitch 0,4mm QFP, IC, .. | 0,2x0,1mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-117 | Cartridge Chisel 0,4x0,2 |  | Package 0402 Very fine pitch 0,65mm QFP, IC, .. | 0,4x0,2mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-108 | Cartridge Chisel 0,6x0,3 |  | Package 0603 PLCC, SO, SOT,.. | 0,6 x 0,3 mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-125 | Cartridge Chisel 1x0,2 |  | Package 0805 Difficult to reach | 1x0,2mm | Station: NASE Tools: NP105-A NP105-B NT105-A |

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

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|--------------------------------|---|------------------------------------|----------------|--|
| | C105-113 | Cartridge Chisel 1x0,3 |  | Package 0805 Through hole | 1x0,3mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-213 | Cartridge Chisel 1x0,3 S1 |  | Package 0805 Through hole | 1x0,3mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-221 | Cartridge Chisel 1,3x0,3 |  | Package 0805 Through hole | 1,3x0,3mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
|  | C105-222 | Cartridge Chisel 1,6x0,3 |  | Package 0805 Through hole | 1,6x0,3mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-114 | Cartridge Chisel 1,8x0,5 |  | Package 1206, 1210 Through hole | 1,8x0,5mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-214 | Cartridge Chisel 1,8x0,5 S1 |  | Package 1206, 1210 Through hole | 1,8x0,5mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-223 | Cartridge Chisel 2,4x0,6 |  | Package 0805 Through hole | 2,4x0,6mm | Station: NASE Tools: NP105-A NP105-B NT105-A |

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

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-----------------------------------|---|--|----------------|--|
|  | C105-115 | Cartridge Cutter Stainl.Steel1 |  | Stainless Steel Remove underfill encapsulants | 1mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
|  | C105-109 | Cartridge Bevel Ø0,6 |  | Drag soldering SMD Through hole | 0,6mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
|  | C105-120 | Cartridge Knife 1X0,2 |  | Drag soldering SMD Package 0805 Through hole | 1x0,2mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-112 | Cartridge Knife 2,5X0,3 |  | Drag soldering SMD SO, SOT,... Package 1210, 1812, 2010, 2512 | 2,5x0,3mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-212 | Cartridge Knife 2,5X0,3 S1 |  | Drag soldering SMD SO, SOT,... Package 1210, 1812, 2010, 2512 | 2,5x0,3mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-111 | Cartridge Knife 3,5X0,7 |  | Package 1210, 1812 SO, SOT,... | 3,5x0,7mm | Station: NASE Tools: NP105-A NP105-B NT105-A |
| | C105-211 | Cartridge Knife 3,5X0,7 |  | Package 1210, 1812 SO, SOT,... | 3,5x0,7mm | Station: NASE Tools: NP105-A NP105-B NT105-A |

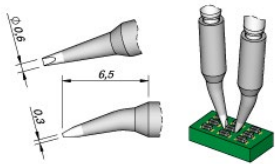

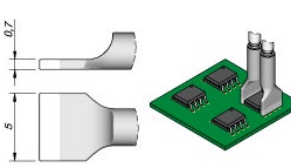
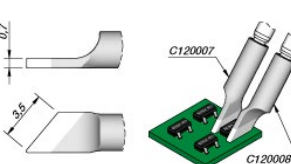
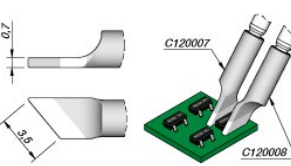
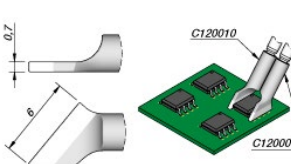
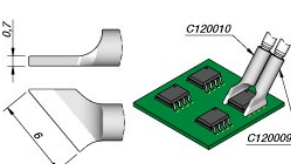


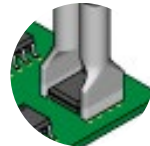
C120 Cartridges range
for **PA120** Micro Tweezers

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|-------|--|----------------|--|
| C120-001 | Cartridge Dual in Line Ø0,2 | | Package 0201, 0402 | Ø0,2mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-002 | Cartridge Chip Ø0,2 | | Package 0201, 0402 | Ø0,2mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-902 | Cartridge Chip Ø0,3 | | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,3mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-006 | Cartridge Chip Ø0,5 | | Package 0603 QFP, IC, .. | Ø0,5mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-004 | Cartridge Chip Ø0,7 S1 | | SMD capacitors QFP, IC, .. Through hole | Ø0,7mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-012 | Cartridge Chip Ø0,7 S2 | | SMD capacitors QFP, IC, .. Through hole | Ø0,7mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |



C120 Cartridges for **PA120** Micro Tweezers

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-------------------------------|---|-----------------------------------|----------------|--|
| C120-011 | Cartridge Chip 0,6 |  | Package 0603 | 0,6x0,3mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-003 | Cartridge Dual in Line 3,0 |  | Package 1210, 1812 SO, SOT,... | 3x0,7mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-005 | Cartridge Dual in Line 5,0 |  | SO, SOT,... | 5x0,7mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-007 | Cartridge Dual in Line 3,5Rig |  | Package 1210, 1812 SO, SOT,... | 3,5x0,7mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-008 | Cartridge Dual in Line 3,5Lef |  | Package 1210, 1812 SO, SOT,... | 3,5x0,7mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-009 | Cartridge Dual in Line 6,0Rig |  | SO, SOT,... | 6x0,7mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |
| C120-010 | Cartridge Dual in Line 6,0Lef |  | SO, SOT,... | 6x0,7mm | Control Units: CP, DI, DDE, DME Tool: PA120-A |




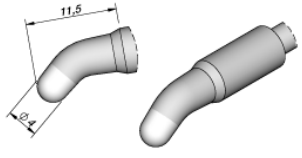
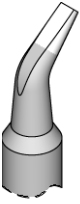
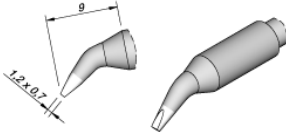
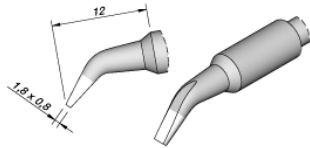
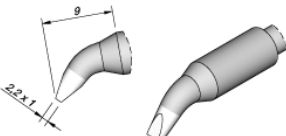
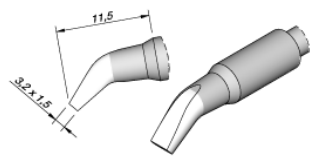
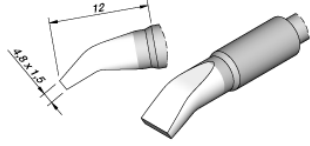


C130 Cartridges range
for **AP130** Solder Feed Iron

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|-------|-----------------------------|----------------|--|
| C130-401 | Cartridge Bent Ø0,6 | | Through hole General use | Ø0,6mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| C130-402 | Cartridge Bent Ø0,8 | | Through hole General use | Ø0,8mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| C130-403 | Cartridge Bent Ø1 | | Through hole General use | Ø1mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| C130-409 | Cartridge Bent Ø1,7 | | Through hole General use | Ø1,7mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| C130-410 | Cartridge Bent Ø2,2 | | Through hole General use | Ø2,2mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| C130-416 | Cartridge Bent Ø3 | | Through hole General use | Ø3mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |



C130 Cartridges for **AP130** Solder Feed Iron

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-----------------------------|---|-----------------------------|----------------|--|
|  | C130-417 | Cartridge Bent Ø4 |  | Through hole General use | Ø4mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
|  | C130-404 | Cartridge Bent 1,2x0,7 |  | Through hole General use | 1,2x0,7mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| | C130-405 | Cartridge Bent 1,8x0,8 |  | Through hole General use | 1,8x0,8mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| | C130-406 | Cartridge Bent 2,2x1 |  | Through hole General use | 2,2x1mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| | C130-418 | Cartridge Bent 3,2x1,5 |  | Through hole General use | 3,2x1,5mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |
| | C130-419 | Cartridge Bent 4,8x1,5 |  | Through hole General use | 4,8x1,5mm | Control Units: CF, DI, DDE, DME Tool: AP130-A |


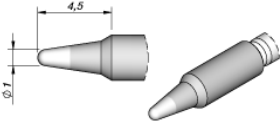

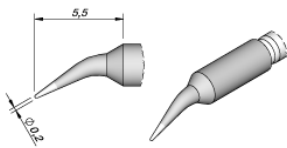
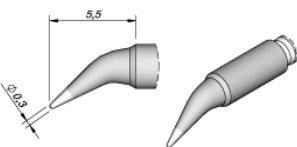
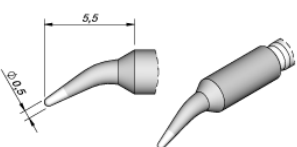
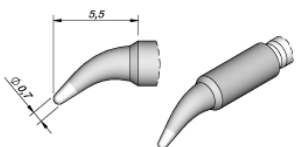

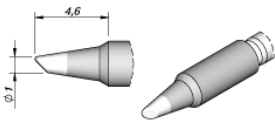

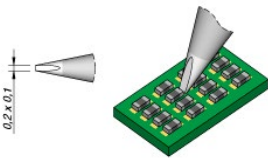


C210 Cartridges range
for **T210** Precision Handles

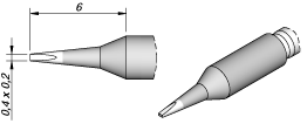
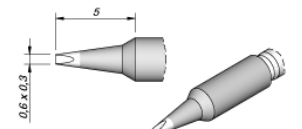
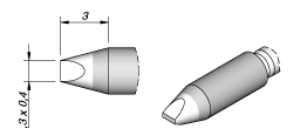
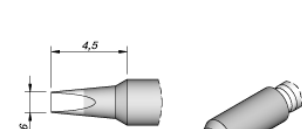
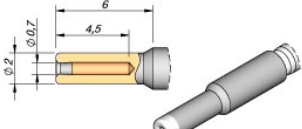
| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|------------------------------|-------|---|----------------|--|
| C210-020 | Cartridge Conical Ø0,1 | | Package 01005, 0201 Very fine pitch 0,4mm QFP, IC, .. | Ø0,1mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-009 | Cartridge Conical Ø0,2 | | Package 01005, 0201 Very fine pitch 0,4mm QFP, IC, .. | Ø0,2mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-016 | Cartridge Conical Ø0,3 S1 | | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,3mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-001 | Cartridge Conical Ø0,3 S2 | | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,3mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-013 | Cartridge Conical Ø0,5 | | Package 0603 QFP, IC, .. | Ø0,5mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-003 | Cartridge Conical Ø0,6 | | General use | Ø0,6mm | Control Units: CD, DI, DDE, DME Tools: T210 range |



C210 Cartridges for **T210** Precision Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-----------------------------|---|---|----------------|--|
|  | C210-005 | Cartridge Conical Ø1,0 |  | General use | Ø1mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
|  | C210-002 | Cartridge Bent Ø0,2 |  | Package 0201, 0402 | Ø0,2mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| | C210-010 | Cartridge Bent Ø0,3 |  | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,3mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| | C210-014 | Cartridge Bent Ø0,5 |  | Package 0603 QFP, IC, .. | Ø0,5mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| | C210-004 | Cartridge Bent Ø0,7 |  | General use | Ø0,7mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
|  | C210-006 | Cartridge Bevel Ø1 |  | Drag Soldering General use | Ø1mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
|  | C210-019 | Cartridge Chisel 0,2x0,1 |  | Package 01005, 0201 Very fine pitch 0,4mm QFP, IC, .. | 0,2x0,1mm | Control Units: CD, DI, DDE, DME Tools: T210 range |

C210 Cartridges for **T210** Precision Handles

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|---|---|----------------|--|
| C210-023 | Cartridge Chisel 0,4x0,2 |  | Package 0402 Very fine pitch 0,65mm QFP, IC, .. | 0,4x0,2mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-021 | Cartridge Chisel 0,6x0,3 |  | Package 0603 | 0,6x0,3mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-024 | Cartridge Chisel 0,8x0,3 |  | Package 0805 Through hole | 0,8x0,3mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-022 | Cartridge Chisel 1,3x0,4 |  | Package 0805 Through hole | 1,3x0,4mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-008 | Cartridge Chisel 1,3x0,6 |  | Package 0805 Through hole | 1,3x0,6mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-007 | Cartridge Chisel 2,3x0,7 |  | Package 0805 Through hole | 2,3x0,7mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| C210-017 | Cartridge Pin Ø0,7 |  | Through hole | Ø0,7xØ2mm | Control Units: CD, DI, DDE, DME Tools: T210 range |



C210 Cartridges for **T210** Precision Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|--|-----------------|----------------------------------|-------|--|----------------|--|
| | C210-015 | Cartridge Pin/ Connector Ø0,8 | | Through hole Coaxial connector | Ø0,8xØ2,4mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| | C210-025 | Cartridge Pin/ Connector Ø1,1 | | Through hole Coaxial connector | Ø1,1xØ2,1mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| | C210-012 | Cartridge Pin/ Wire Ø1 | | Cables Connectors | Ø1,0mm | Control Units: CD, DI, DDE, DME Tools: T210 range |
| | C210-018 | Cartridge Knife 3,4x0,3 | | Drag soldering SMD SO, SOT,... Package 1210, 1812, 2010, 2512 | 3,4x0,3mm | Control Units: CD, DI, DDE, DME Tools: T210 range |

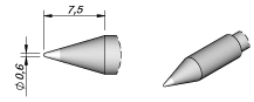
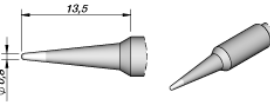
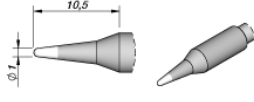
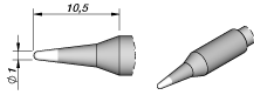
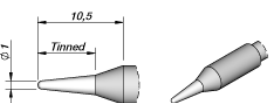
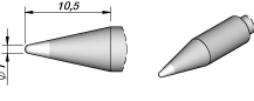
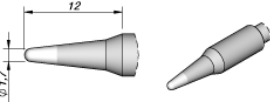


C245 Cartridges range
for **T245** Handles

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|-------|--|----------------|--|
| C245-030 | Cartridge Conical Ø0,3 | | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-032 | Cartridge Conical Ø0,4 | | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-036 | Cartridge Conical Ø0,5 S1 | | Package 0603 QFP, IC, .. | Ø0,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-930 | Cartridge Conical Ø0,5 S2 | | Package 0603 QFP, IC, .. | Ø0,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-001 | Cartridge Conical Ø0,6 | | General use | Ø0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-201 | Cartridge Conical Ø0,6 L | | Package 0603 QFP, IC, .. | Ø0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |


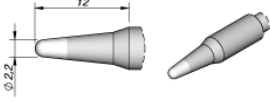
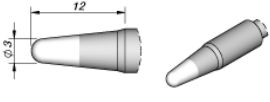

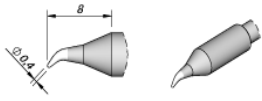
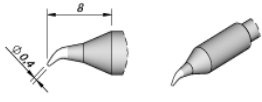
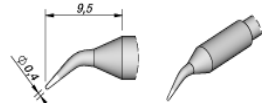
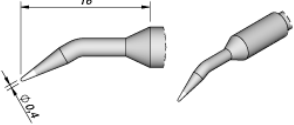
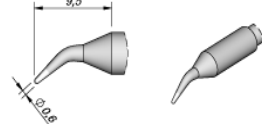


C245 Cartridges for **T245** Handles


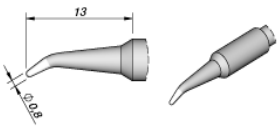
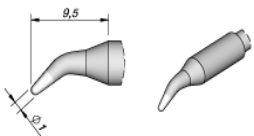
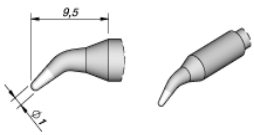
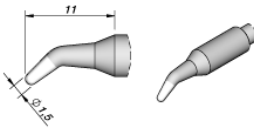
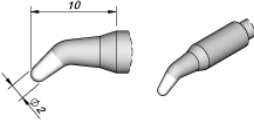
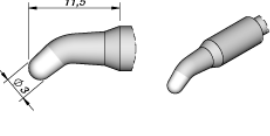
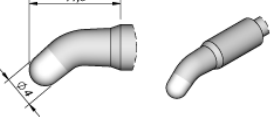
| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|------------------------------|---|---|----------------|---|
| C245-937 | Cartridge Conical Ø0,6 HT |  | Package 0603 QFP, IC, .. | Ø0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-957 | Cartridge Conical Ø0,8 |  | Through hole | Ø0,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-903 | Cartridge Conical Ø1,0 S1 |  | General use | Ø1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-803 | Cartridge Conical Ø1,0 L |  | General use | Ø1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-041 | Cartridge Conical Ø1,0 S2 |  | General use Tip with an extra tinned surface | Ø1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-403 | Cartridge Conical Ø1,0 HT |  | General use | Ø1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-943 | Cartridge Conical Ø1,7 |  | General use | Ø1,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |



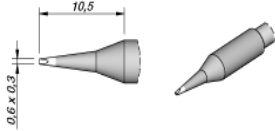
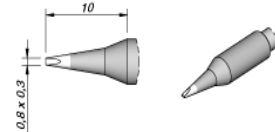
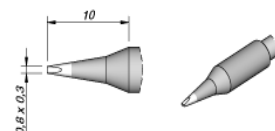
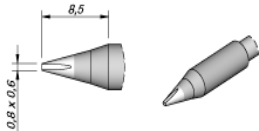
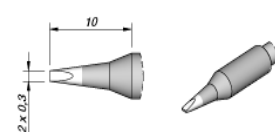
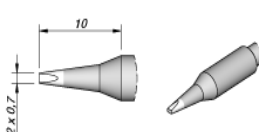
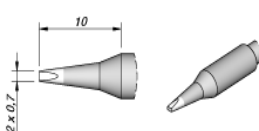
C245 Cartridges for **T245** Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|------------------------------|---|--|----------------|---|
|  | C245-933 | Cartridge Conical Ø2,2 |  | General use | Ø2,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-107 | Cartridge Conical Ø3,0 HT |  | General use | Ø3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
|  | C245-034 | Cartridge Bent Ø0,4 S1 |  | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-234 | Cartridge Bent Ø0,4 S1 L |  | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-029 | Cartridge Bent Ø0,4 S2 |  | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-126 | Cartridge Bent Ø0,4 S3 |  | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-929 | Cartridge Bent Ø0,6 |  | Package 0603 QFP, IC, .. | Ø0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

C245 Cartridges for **T245** Handles

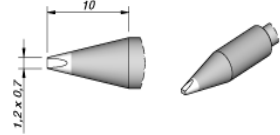
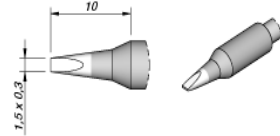
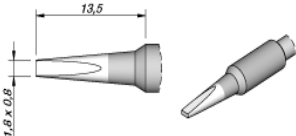

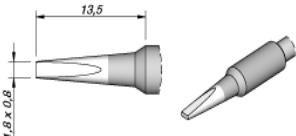
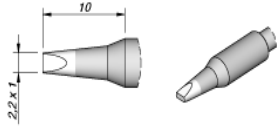
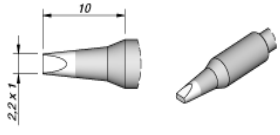
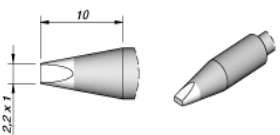
| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-----------------------------|---|----------------------|----------------|---|
|  | C245-935 | Cartridge Bent Ø0,8 |  | Through hole | Ø0,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-904 | Cartridge Bent Ø1,0 |  | General use | Ø1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-804 | Cartridge Bent Ø1,0 L |  | General use | Ø1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-259 | Cartridge Bent Ø1,5 |  | General use | Ø1,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-260 | Cartridge Bent Ø2 HT |  | General use | Ø2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-627 | Cartridge Bent Ø3 |  | General use | Ø3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-628 | Cartridge Bent Ø4 HT |  | General use | Ø4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

C245 Cartridges for **T245** Handles

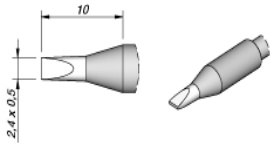
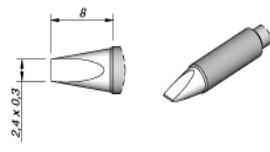
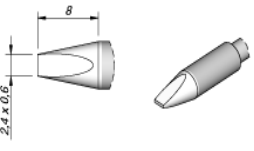
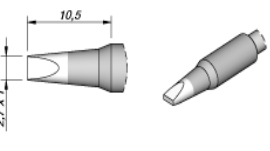
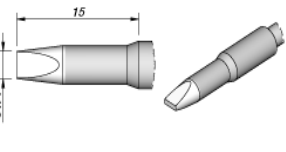
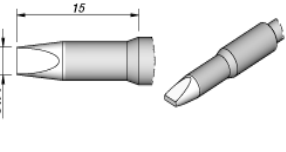
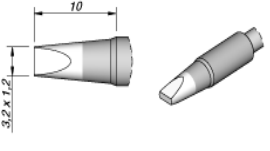
| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|--------------------------------|---|------------------------------|----------------|---|
| C245-731 | Cartridge Chisel 0,6x0,3 |  | Package 0603 | 0,6x0,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-773 | Cartridge Chisel 0,8x0,3 |  | Package 0805 Through hole | 0,8x0,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-673 | Cartridge Chisel 0,8x0,3 L |  | Package 0805 Through hole | 0,8x0,3 | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-742 | Cartridge Chisel 0,8x0,6 HT |  | Package 0805 Through hole | 0,8x0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-774 | Cartridge Chisel 1,2x0,3 |  | General use | 1,2x0,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-906 | Cartridge Chisel 1,2x0,7 |  | General use | 1,2x0,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-806 | Cartridge Chisel 1,2x0,7 L |  | General use | 1,2x0,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |



C245 Cartridges for **T245** Handles


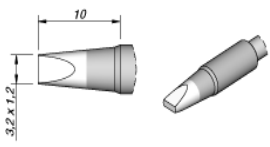
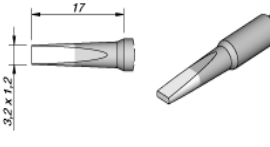
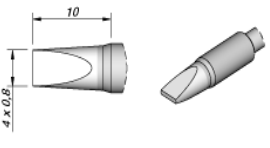
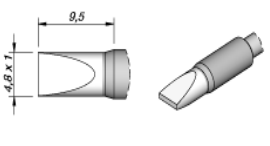
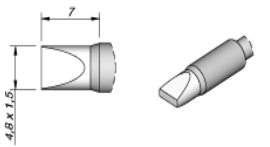
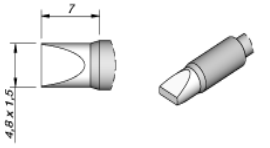
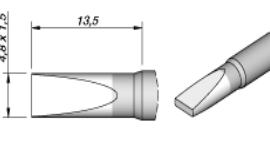
| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|--------------------------------|---|----------------------|----------------|---|
| | C245-406 | Cartridge Chisel 1,2x0,7 HT |  | General use | 1,2x0,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-768 | Cartridge Chisel 1,5x0,3 |  | General use | 1,5x0,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-944 | Cartridge Chisel 1,8x0,8 |  | General use | 1,8x0,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
|  | C245-844 | Cartridge Chisel 1,8x0,8 L |  | General use | 1,8x0,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-907 | Cartridge Chisel 2,2x1 |  | General use | 2,2x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-807 | Cartridge Chisel 2,2x1 L |  | General use | 2,2x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-407 | Cartridge Chisel 2,2x1 HT |  | General use | 2,2x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

C245 Cartridges for **T245** Handles


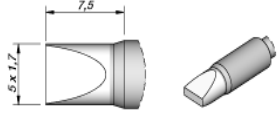
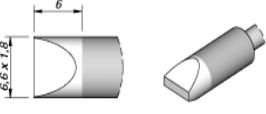
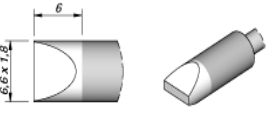

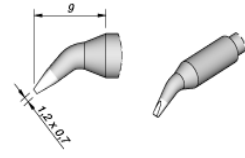
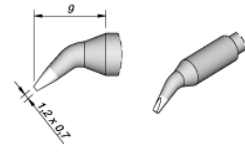
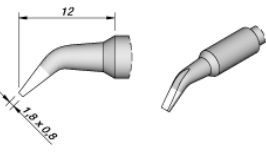
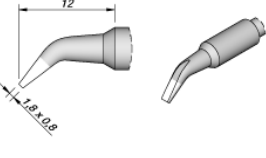
| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|--------------------------------|---|----------------------|----------------|---|
| C245-759 | Cartridge Chisel 2,4x0,5 HT |  | General use | 2,4x0,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-770 | Cartridge Chisel 2,4x0,3 |  | General use | 2,4x0,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-741 | Cartridge Chisel 2,4x0,6 HT |  | General use | 2,4x0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-729 | Cartridge Chisel 2,7x1 |  | General use | 2,7x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-061 | Cartridge Chisel 3x1 |  | General use | 3x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-261 | Cartridge Chisel 3x1 L |  | General use | 3x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-911 | Cartridge Chisel 3,2x1,2 |  | General use | 3,2x1,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |




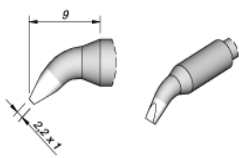
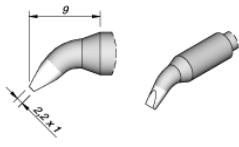
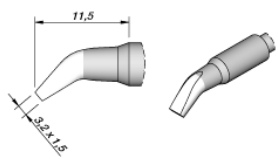
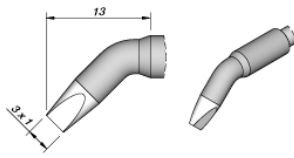
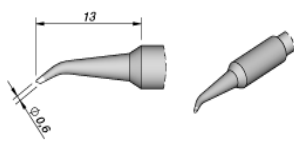
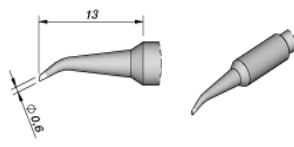

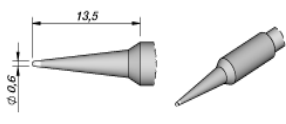
C245 Cartridges for **T245** Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-----------------------------------|---|----------------------|----------------|---|
|  | C245-811 | Cartridge Chisel 3,2x1,2 L |  | General use | 3,2x1,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-775 | Cartridge Chisel 3,2x1,2 S1 |  | General use | 3,2x1,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-755 | Cartridge Chisel 4x0,8 HT |  | General use | 4x0,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-756 | Cartridge Chisel 4,8x1 HT |  | General use | 4,8x1,0mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-908 | Cartridge Chisel 4,8x1,5 HT S1 |  | General use | 4,8x1,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-808 | Cartridge Chisel 4,8x1,5 HT L |  | General use | 4,8x1,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-708 | Cartridge Chisel 4,8x1,5 HT S2 |  | General use | 4,8x1,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

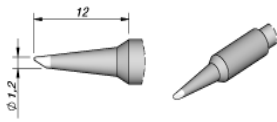
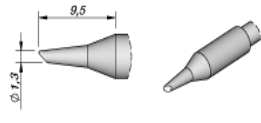
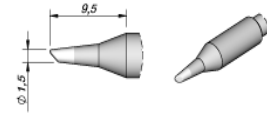
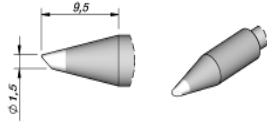
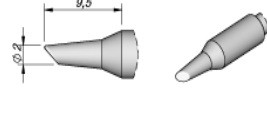
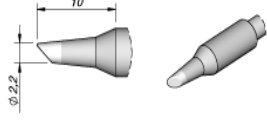
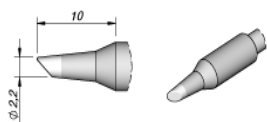
C245 Cartridges for **T245** Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|----------------------------------|---|----------------------|----------------|---|
|  | C245-069 | Cartridge Chisel 5x1,7 HT |  | General use | 5x1,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-966 | Cartridge Chisel 6,6x1,8 HT |  | General use | 6,6x1,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-866 | Cartridge Chisel 6,6x1,8 HT L |  | General use | 6,6x1,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
|  | C245-962 | Cartridge Bent 1,2x0,7 |  | General use | 1,2x0,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-862 | Cartridge Bent 1,2x0,7 L |  | General use | 1,2x0,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-963 | Cartridge Bent 1,8x0,8 |  | General use | 1,8x0,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-863 | Cartridge Bent 1,8x0,8 L |  | General use | 1,8x0,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

C245 Cartridges for **T245** Handles


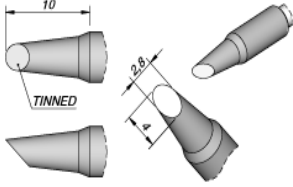
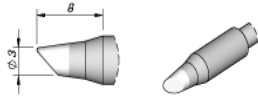
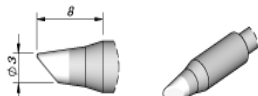
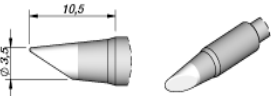
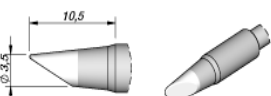
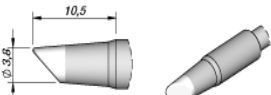

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|---------------------------------|---|------------------------------|----------------|---|
|  | C245-946 | Cartridge Bent 2,2x1,0 |  | General use | 2,2x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-846 | Cartridge Bent 2,2x1,0 L |  | General use | 2,2x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-732 | Cartridge Bent 3,2x1,5 |  | General use | 3,2x1,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-761 | Cartridge Bent 3,0x1,0 |  | General use | 3x1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-748 | Cartridge Bent Bevel Ø0,6 S1 |  | Package 0603 Through hole | 0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-749 | Cartridge Bent Bevel Ø0,6 S2 |  | Package 0603 Through hole | 0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
|  | C245-747 | Cartridge Bevel Ø0,6 |  | Package 0603 Through hole | 0,6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

C245 Cartridges for **T245** Handles

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|---|---|----------------|---|
| C245-710 | Cartridge Bevel Ø1,2 |  | Drag soldering Through hole | 1,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-064 | Cartridge Bevel Ø1,3 |  | Drag soldering Through hole Hoof tip with reduced tinned surface, ideal for tuch up | 1,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-905 | Cartridge Bevel Ø1,5 |  | Drag soldering Through hole | 1,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-405 | Cartridge Bevel Ø1,5 HT |  | Drag soldering Through hole | 1,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-102 | Cartridge Bevel Ø2 |  | Drag soldering Through hole Hoof tip with reduced tinned surface, ideal for tuch up | 2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-945 | Cartridge Bevel Ø2,2 |  | Drag soldering Through hole | 2,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-845 | Cartridge Bevel Ø2,2 L |  | Drag soldering Through hole | 2,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |



C245 Cartridges for **T245** Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|------------------------------|---|--------------------------------|----------------|---|
|  | C245-784 | Cartridge Bevel Ø2,8 |  | Drag soldering Through hole | 2,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-912 | Cartridge Bevel Ø3 |  | Drag soldering Through hole | 3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-812 | Cartridge Bevel Ø3 L |  | Drag soldering Through hole | 3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-056 | Cartridge Bevel Ø3,5 HT |  | Drag soldering Through hole | 3,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-256 | Cartridge Bevel Ø3,5 HT L |  | Drag soldering Through hole | 3,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-951 | Cartridge Bevel Ø3,8 HT |  | Drag soldering Through hole | 3,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-766 | Cartridge Bevel Ø5 |  | Wide area | 5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

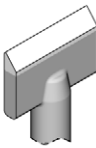
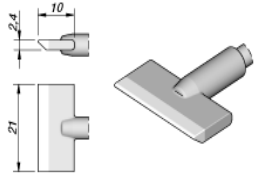
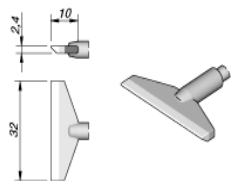
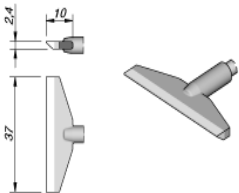

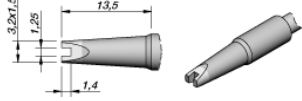
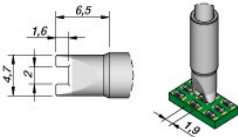
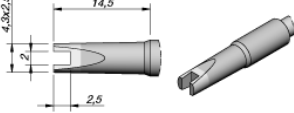
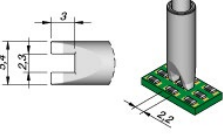
C245 Cartridges for **T245** Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|--|-----------------|----------------------------------|---|----------------------------------|----------------|---|
|  | C245-301 | Cartridge Bevel Ø8,8 |  | Wide area | 8,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
|  | C245-965 | Cartridge Spoon Ø1,9 |  | Drag soldering | 1,9mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-067 | Cartridge Spoon Ø2,3 |  | Drag soldering | Ø2,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-931 | Cartridge Spoon Ø2,7 |  | Drag soldering | 2,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-938 | Cartridge Spoon Ø3,8 |  | Drag soldering | 3,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-785 | Cartridge Pin/ Connector Ø1,5 |  | Through hole Cable sold/desol | Ø1,5xØ3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-763 | Cartridge Pin/ Connector Ø2,5 |  | Through hole Cable sold/desol | Ø2,5xØ4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |


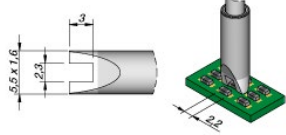
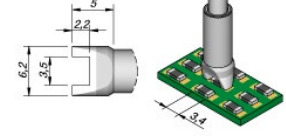
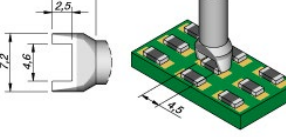
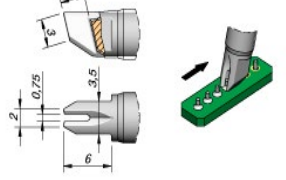
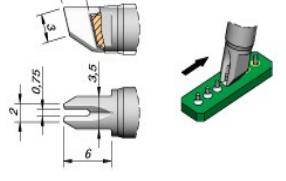
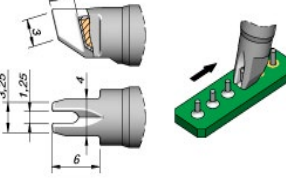
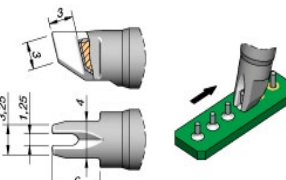
C245 Cartridges for **T245** Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|--|-----------------|-----------------------------------|-------|--|----------------|---|
| | C245-760 | Cartridge Pin/ Connector Ø3,5 | | Through hole Cable sold/desol | Ø3,5xØ5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-762 | Cartridge Pin/ Connector R.4,5 | | Cable sold/desol | R4,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-939 | Cartridge Knife 6,0x0,4 | | Drag soldering | 6x0,4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-765 | Cartridge Knife 6,0x0,4 S1 | | Drag soldering | 6x0,4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-955 | Cartridge Knife 13,0x0,5 | | Drag Soldering Conector desoldering | 13x0,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-914 | Cartridge Blade 10,0 S1 | | Pad cleaning Conector desoldering | 10mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-752 | Cartridge Blade 15,0 | | Pad cleaning Conector desoldering | 15mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

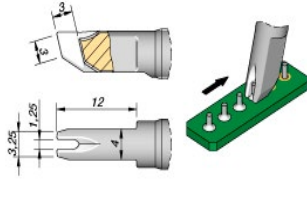
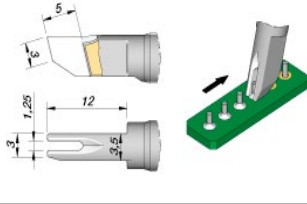
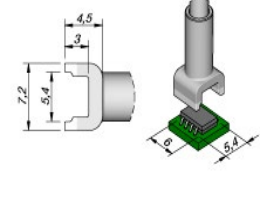
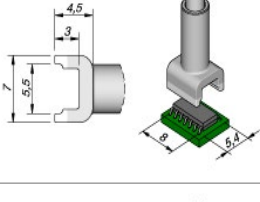
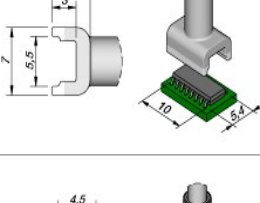
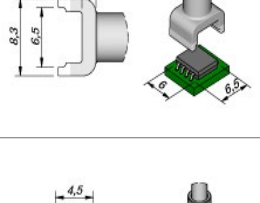
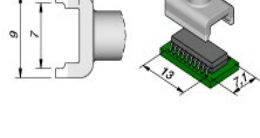
C245 Cartridges for **T245** Handles

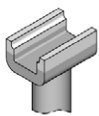
| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-----------------------------|---|--------------------------------------|----------------|---|
|  | C245-913 | Cartridge Blade 21,0 |  | Pad cleaning Conector desoldering | 21mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-949 | Cartridge Blade 32,0 |  | Pad cleaning Conector desoldering | 32mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-776 | Cartridge Blade 37,0 |  | Pad cleaning Conector desoldering | 37mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
|  | C245-757 | Cartridge Chip 1,25 |  | SMD resistors SMD capacitors | 3,2x1,25mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-016 | Cartridge Chip 1,9 |  | SMD resistors SMD capacitors | 4,7x2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-758 | Cartridge Chip 2,0 |  | SMD resistors SMD capacitors | 4,3x2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-017 | Cartridge Chip 2,2 S1 |  | SMD resistors SMD capacitors | 5,4x2,3mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

C245 Cartridges for **T245** Handles

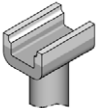
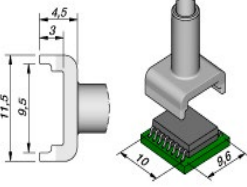
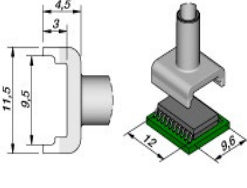
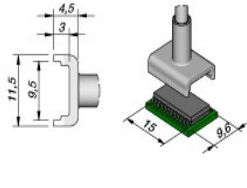
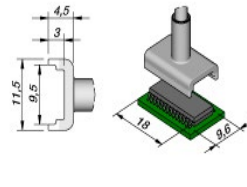
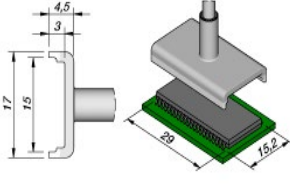

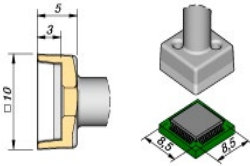
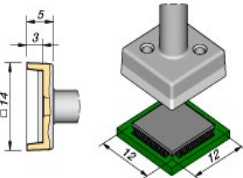
| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------------------|---|--|--|--|
|  | C245-150 | Cartridge Chip 2,2 S2 |  | SMD resistors SMD capacitors | 5,5x2,3mm Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-018 | Cartridge Chip 3,4 |  | SMD resistors SMD capacitors | 6,2x3,5mm Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-019 | Cartridge Chip 4,5 |  | SMD resistors SMD capacitors | 7,2x4,6mm Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-754 | Cartridge Drag 0,75 |  | Drag soldering | 2x0,75mm Control Units: CD, DI, DDE, DME Tools: T245 range | |
| C245-654 | Cartridge Drag 0,75 L |  | Drag soldering | 2x0,75mm Control Units: CD, DI, DDE, DME Tools: T245 range | |
| C245-751 | Cartridge Drag 1,25 |  | Drag soldering | 3,25x1,25mm Control Units: CD, DI, DDE, DME Tools: T245 range | |
| C245-651 | Cartridge Drag 1,25 L |  | Drag soldering | 3,25x1,25mm Control Units: CD, DI, DDE, DME Tools: T245 range | |

C245 Cartridges for **T245** Handles

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|------------------------------|---|----------------------|----------------|---|
| C245-667 | Cartridge Drag 1,25 S1 L |  | Drag soldering | 3,25x1,25mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-669 | Cartridge Drag 1,25 S2 L |  | Drag soldering | 3x1,25mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-220 | Cartridge Tunnel 5,4x 6,0 |  | Dual in Line IC | 5,4x6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-250 | Cartridge Tunnel 5,4x 8,0 |  | Dual in Line IC | 5,4x8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-221 | Cartridge Tunnel 5,4x10,0 |  | Dual in Line IC | 5,4x10mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-303 | Cartridge Tunnel 6,5x 6,0 |  | Dual in Line IC | 6,5x6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-222 | Cartridge Tunnel 7,1x13,0 |  | Dual in Line IC | 7,1x13mm | Control Units: CD, DI, DDE, DME Tools: T245 range |



C245 Cartridges for **T245** Handles

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-------------------------------|---|----------------------|----------------|---|
|  | C245-306 | Cartridge Tunnel 9,6x10,0 |  | Dual in Line IC | 9,6x10mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-305 | Cartridge Tunnel 9,6x12,0 |  | Dual in Line IC | 9,6x12mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-304 | Cartridge Tunnel 9,6x15,0 |  | Dual in Line, IC | 9,6x15mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-215 | Cartridge Tunnel 9,6x18,0 |  | Dual in Line IC | 9,6x18mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-226 | Cartridge Tunnel 15,2x29,0 |  | Dual in Line IC | 15,2x29mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
|  | C245-223 | Cartridge QFP 10,0x10,0 |  | QFP | 10x10mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| | C245-224 | Cartridge QFP 12,0x12,0 |  | QFP | 12x12mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

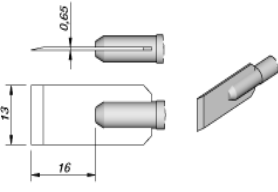
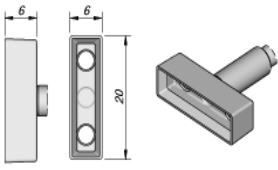
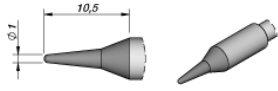
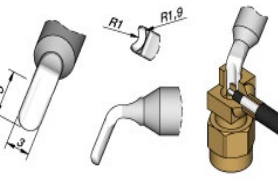
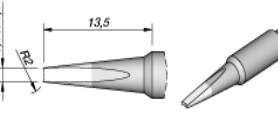
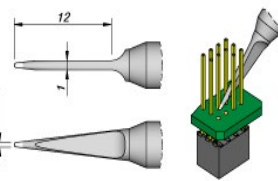
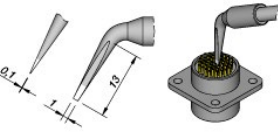
C245 Cartridges for **T245** Handles

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-------------------------------|-------|--|----------------|---|
| C245-228 | Cartridge QFP 12,4x15,0 | | QFP | 12,4x15mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-315 | Cartridge QFP 15,0x15,0 | | QFP | 15x15mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-227 | Cartridge QFP 17,5x17,5 | | QFP | 17,5x17,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-248 | Cartridge Socket 11,9x14,5 | | PLCC sockets | 11,9x14,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-247 | Cartridge Socket 17x17 | | PLCC sockets | 17x17mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-053 | Cartridge Rivet Ø3,8 | | Chrome finisg, design for plastic rivets | Ø3,8x0,9mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-052 | Cartridge Rivet Ø4,9 | | Chrome finisg, design for plastic rivets | Ø4,9x2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

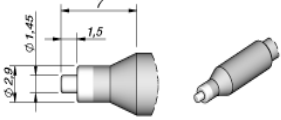
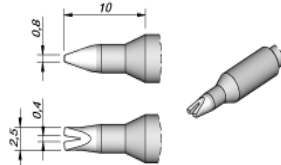
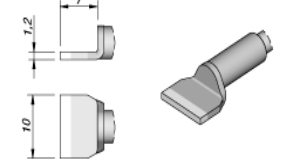
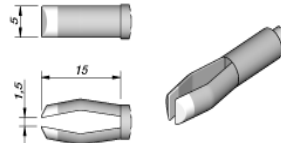
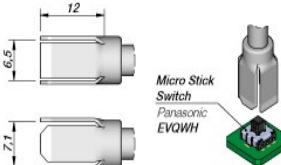
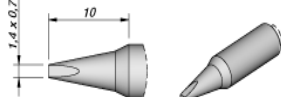
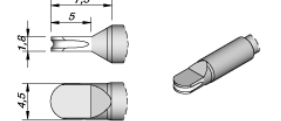
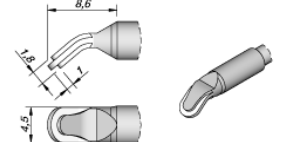
C245 Cartridges for **T245** Handles

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|----------------------------------|-------|--|----------------|---|
| C245-054 | Cartridge Rivet Ø6,5 | | Chrome finish, design for plastic rivets | Ø6,5x2,1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-312 | Cartridge for Plastics Ø3,2 | | Plastics | Ø3,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-313 | Cartridge for Plastics Ø4,1 | | Plastics | Ø4,1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-123 | Cartridge for Plastics 4x4 | | Plastics | 4x4mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-124 | Cartridge for Plastics 4,25x2 | | Plastics | 4,25x2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-109 | Cartridge Cutter 4,3x0,1 | | Plastics Remove underfill encapsulants | 4,3x0,1 | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-138 | Cartridge Cutter 12,0 | | Plastic Rubber cutter | 12mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

C245 Cartridges for **T245** Handles

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------------|---|---|----------------|---|
| C245-121 | Cartridge Cutter 13,0 |  | Plastic Rubber cutter | 13x0,65mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-311 | Cartridge for Plastics 20x6 |  | Plastics | 20x6mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-119 | Cartridge Conical Teflon Ø1,0 |  | Plastics | Ø1,0mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-116 | Cartridge Pin/ Connector R.1 |  | Through hole Coaxial connector | Ø2xØ3,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-122 | Cartridge Pin/ Connect.1,5x0,5 |  | Cylinder parts | 1,5x0,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-764 | Cartridge Fine Pitch Ø0,5 |  | Package 0603 QFP, IC, .. Fine pitch | Ø0,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-771 | Cartridge Bent 1x0,1 |  | Cable soldering to connector Fine pitch | 1x0,1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

C245 Cartridges for **T245** Handles

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|---------------------------------|---|--------------------------------------|----------------|---|
| C245-117 | Cartridge Flat Ø1,45 |  | Through hole | 1,45xØ2,9mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-118 | Cartridge Pin/ Wire 0,4 |  | Through hole Wire tinning | 2,5x0,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-730 | Cartridge Blade 10,0 S2 |  | Pad cleaning Conector desoldering | 10x1,2mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-268 | Cartridge Pin/ Wire 1,5 |  | Through hole | 5x1,5mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-136 | Cartridge Micro Stick Switch |  | Micro Stick desoldering | 6,5x7,1mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-772 | Cartridge Nickel 1,4x0,7 S1 |  | HMP soldering | 1,4x0,7mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-009 | Cartridge S-Lead 4,5X1,8 |  | Drag Soldering | 4,5x1,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |
| C245-010 | Cartridge J-Lead 4,5X1,8 |  | Drag soldering J-lead | 4,5x1,8mm | Control Units: CD, DI, DDE, DME Tools: T245 range |

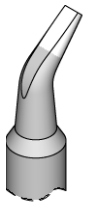
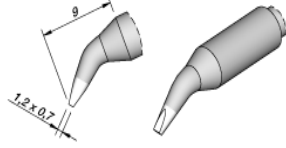
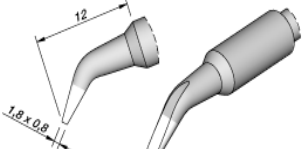
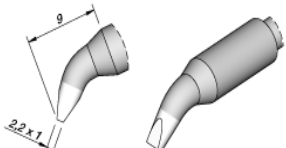
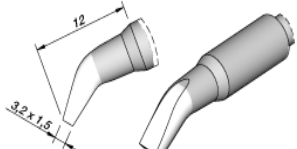
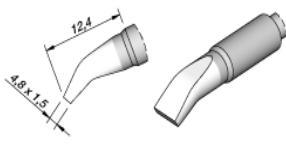

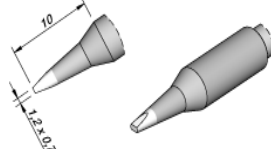
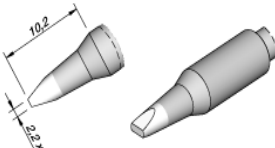


C250 Cartridges range
for **AL250** Auto-Feed Soldering Iron


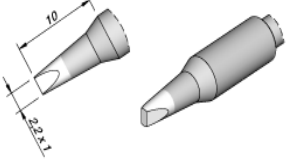
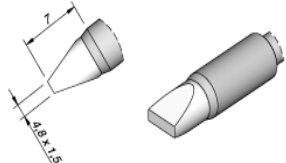

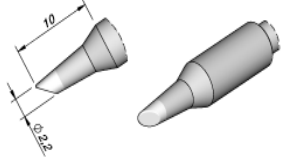
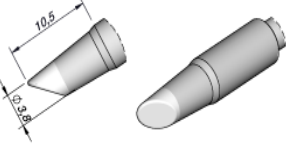
| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|-------|--|----------------|---------------------------------|
| C250-420 | Cartridge Bent Ø0,4 | | Package 0201, 0402 Fine pitch 0,65mm QFP, IC, .. | Ø0,4mm | Station: AL Tool: AL250-B |
| C250-401 | Cartridge Bent Ø0,6 | | Package 0603 QFP, IC, .. | Ø0,6mm | Station: AL Tool: AL250-B |
| C250-402 | Cartridge Bent Ø0,8 | | General use | Ø0,8mm | Station: AL Tool: AL250-B |
| C250-403 | Cartridge Bent Ø1,0 | | General use | Ø1mm | Station: AL Tool: AL250-B |
| C250-409 | Cartridge Bent Ø1,7 | | General use | Ø1,7mm | Station: AL Tool: AL250-B |
| C250-410 | Cartridge Bent Ø2,2 | | General use | Ø2,2mm | Station: AL Tool: AL250-B |



C250 Cartridges for **AL250** Auto-Feed Soldering Iron

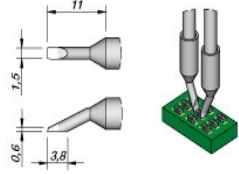
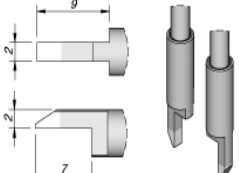
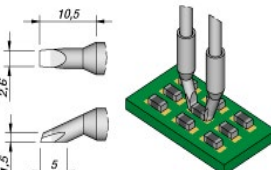
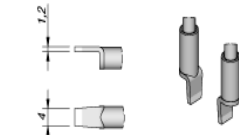
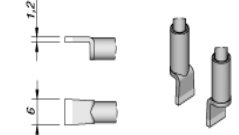
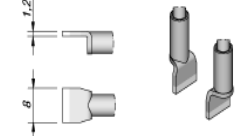
| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|------------------------------|---|----------------------|----------------|---------------------------------|
|  | C250-404 | Cartridge Bent 1,2x0,7 |  | General use | 1,2x0,7mm | Station: AL Tool: AL250-B |
| | C250-405 | Cartridge Bent 1,8x0,8 |  | General use | 1,8x0,8mm | Station: AL Tool: AL250-B |
| | C250-406 | Cartridge Bent 2,2x1,0 |  | General use | 2,2x1mm | Station: AL Tool: AL250-B |
| | C250-418 | Cartridge Bent 3,2x1,5 |  | General use | 3,2x1,5mm | Station: AL Tool: AL250-B |
| | C250-412 | Cartridge Bent 4,8x1,5 |  | General use | 4,8x1,5mm | Station: AL Tool: AL250-B |
|  | C250-407 | Cartridge Chisel 1,2x0,7 |  | General use | 1,2x0,7mm | Station: AL Tool: AL250-B |
| | C250-408 | Cartridge Chisel 2,2x1 S1 |  | General use | 2,2x1mm | Station: AL Tool: AL250-B |

C250 Cartridges for **AL250** Auto-Feed Soldering Iron

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|--|-----------------|------------------------------|---|--------------------------------|----------------|---------------------------------|
|  | C250-413 | Cartridge Chisel 2,2x1 S2 |  | General use | 2,2x1mm | Station: AL Tool: AL250-B |
| | C250-411 | Cartridge Chisel 4,8x1,5 |  | General use | 4,8x1,5mm | Station: AL Tool: AL250-B |
|  | C250-414 | Cartridge Bevel Ø2,2 |  | Drag soldering Through hole | 2,2mm | Station: AL Tool: AL250-B |
| | C250-415 | Cartridge Bevel Ø3,8 |  | Drag soldering Through hole | 3,8mm | Station: AL Tool: AL250-B |



C420 Cartridges range
for **HT420** Thermal Tweezers

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|---|---|----------------|--|
| C420-271 | Cartridge Chip 1,5 |  | SMD resistors SMD capacitors | 1,5mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-287 | Cartridge Chip 2,0 |  | Special | 2mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-272 | Cartridge Chip 2,6 |  | SMD resistors SMD capacitors | 2,6mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-273 | Cartridge Dual in Line 4,0 |  | Package 1210, 1812 SO, SOT,.. DIP | 4mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-274 | Cartridge Dual in Line 6,0 |  | DIP IC | 6mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-275 | Cartridge Dual in Line 8,0 |  | DIP IC | 8mm | Control Units: DI, DDE, DME Tool: HT420-A |

C420 Cartridges for **HT420** Thermal Tweezers

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------------|-------|----------------------|----------------|--|
| C420-276 | Cartridge Dual in Line 10,0 | | DIP IC | 10mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-277 | Cartridge Dual in Line 15,0 | | DIP IC | 15mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-278 | Cartridge Dual in Line 20,0 | | DIP IC | 20mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-285 | Cartridge Dual in Line 22,0 | | QFP PLCC | 22mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-279 | Cartridge QFP 8,0 | | QFP PLCC | 8mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-280 | Cartridge QFP 11,0 | | QFP PLCC | 11mm | Control Units: DI, DDE, DME Tool: HT420-A |
| C420-281 | Cartridge Stripper Inf.Ø3,5Max | | Wire stripper | Ø3,5mm | Control Units: DI, DDE, DME Tool: HT420-A |


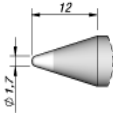



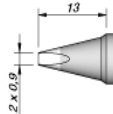
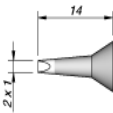
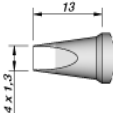
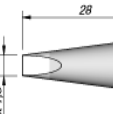
C420 Cartridges for **HT420** Thermal Tweezers

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|--|-----------------|-----------------------------------|-------|--|----------------|--|
| | C420-282 | Cartridge Stripper Sup.Ø3,5Max | | Wire stripper | Ø3,5mm | Control Units: DI, DDE, DME Tool: HT420-A |
| | C420-286 | Cartridge "U" Shape 15,6X14,3 | | Special | 15,6x14,3mm | Control Units: DI, DDE, DME Tool: HT420-A |
| | C420-283 | Cartridge Blade 50,0 | | Pad cleaning Connector desoldering | 50mm | Control Units: DI, DDE, DME Tool: HT420-A |



C470 Cartridges range

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

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|------------------------------|---|----------------------|----------------|--------------------------------------|
|  | C470-001 | Cartridge Conical Ø1,7 |  | General use | Ø1,7mm | Station: HDE Tools: T470 range |
|  | C470-008 | Cartridge Bent Ø3,5 |  | General use | Ø3,5mm | Station: HDE Tools: T470 range |
|  | C470-013 | Cartridge Chisel 2x0,9 |  | General use | 2x0,9mm | Station: HDE Tools: T470 range |
| | C470-036 | Cartridge Chisel 2x1 |  | General use | 2x1mm | Station: HDE Tools: T470 range |
| | C470-014 | Cartridge Chisel 4x1,3 S1 |  | General use | 4x1,3mm | Station: HDE Tools: T470 range |
| | C470-040 | Cartridge Chisel 4x1,3 S2 |  | General use | 4x1,3mm | Station: HDE Tools: T470 range |

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

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|-----------------------------|---|----------------------------|----------------|--------------------------------------|
|  | C470-035 | Cartridge Chisel 4X2,5 |   | General use | 4x2,5mm | Station: HDE Tools: T470 range |
| | C470-017 | Cartridge Chisel 5X1,2 |   | General use | 5x1,2mm | Station: HDE Tools: T470 range |
| | C470-009 | Cartridge Chisel 5,5X1,5 |   | General use Sheet metal | 5,5x1,5mm | Station: HDE Tools: T470 range |
| | C470-002 | Cartridge Chisel 6X1,5 |   | General use Sheet metal | 6x1,5mm | Station: HDE Tools: T470 range |
| | C470-015 | Cartridge Chisel 6X1,7 |   | General use | 6x1,7mm | Station: HDE Tools: T470 range |
| | C470-004 | Cartridge Chisel 7,5X1,5 |   | General use Sheet metal | 7,5x1,5mm | Station: HDE Tools: T470 range |
| | C470-016 | Cartridge Chisel 7,5X1,7 |   | General use | 7,5x1,7mm | Station: HDE Tools: T470 range |

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

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|--|-----------------|-----------------------------|-------|----------------------------|----------------|--------------------------------------|
| | C470-039 | Cartridge Chisel 8X2,5 | | General use Sheet metal | 8x2,5mm | Station: HDE Tools: T470 range |
| | C470-039 | Cartridge Chisel 8,5X2,5 | | General use Sheet metal | 8,5x2,5mm | Station: HDE Tools: T470 range |
| | C470-006 | Cartridge Chisel 10X2,5 | | General use Sheet metal | 10x2,5mm | Station: HDE Tools: T470 range |
| | C470-007 | Cartridge Chisel 15,5X2,5 | | General use Sheet metal | 15,5x2,5mm | Station: HDE Tools: T470 range |
| | C470-021 | Cartridge Chisel 12x4 | | Sheet metal General use | 12x4mm | Station: HDE Tools: T470 range |
| | C470-022 | Cartridge Chisel 28x4 | | Sheet metal | 28x4mm | Station: HDE Tools: T470 range |
| | C470-018 | Cartridge Bent 8,9x1,7 | | General use Sheet metal | 8,9x1,7mm | Station: HDE Tools: T470 range |

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

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|--|-------------------------|---|---|--|--------------------------------------|--------------------------------------|
|  | C470-034 | Cartridge Bent 3,5x1,5 |  | General use | 3,5x1,5mm | Station: HDE Tools: T470 range |
|  | C470-019 | Cartridge Bevel Ø3,5 |  | General use | 3,5mm | Station: HDE Tools: T470 range |
| | C470-003 | Cartridge Bevel Ø7,5 |  | General use Sheet metal | 7,5mm | Station: HDE Tools: T470 range |
| | C470-056 | Cartridge Bevel Ø10,0 |  | Wide area Shield desoldering Sheet metal | Ø10,0mm | Station: HDE Tools: T470 range |
| | C470-005 | Cartridge Flat Ø15 |  | Shield desoldering Metal PCB Sheet metal | Ø15mm | Station: HDE Tools: T470 range |
| C470-044 | Cartridge Flat 10x15 |  | Shield desoldering Metal PCB Sheet metal | 10x15mm | Station: HDE Tools: T470 range | |
| C470-057 | Cartridge Flat 20x30 |  | Shield desoldering Metal PCB Sheet metal | 20x30mm | Station: HDE Tools: T470 range | |

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

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------------|---|-----------------------|----------------|--------------------------------------|
| C470-028 | Cartridge Pin/ Connector Ø1,2 |  | Cable Through hole | Ø1,2x5mm | Station: HDE Tools: T470 range |
| C470-031 | Cartridge Pin/ Connector Ø3,2 |  | Cable Through hole | Ø3,2x6mm | Station: HDE Tools: T470 range |
| C470-048 | Cartridge Pin/ Connector Ø3,4 |  | Cable Through hole | Ø3,4x5,5mm | Station: HDE Tools: T470 range |
| C470-049 | Cartridge Pin/ Connector Ø5,2 |  | Cable Through hole | Ø5,2x6,9mm | Station: HDE Tools: T470 range |
| C470-055 | Cartridge Pin/ Connector Ø4,0 |  | Cable Through hole | Ø4,0 | Station: HDE Tools: T470 range |
| C470-033 | Cartridge Pin/ Connector Ø3,65 |  | Cable Through hole | Ø3,65x7mm | Station: HDE Tools: T470 range |
| C470-030 | Cartridge Pin/ Connector Ø5,0 |  | Cable Through hole | Ø5x7,9mm | Station: HDE Tools: T470 range |

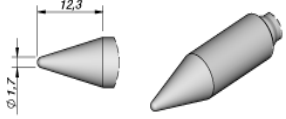
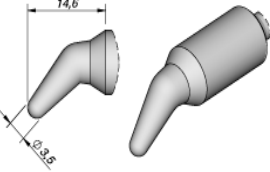
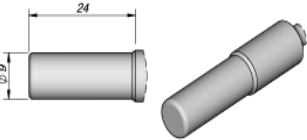
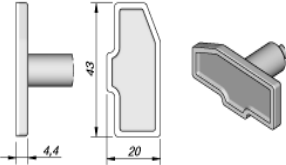
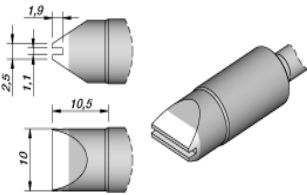
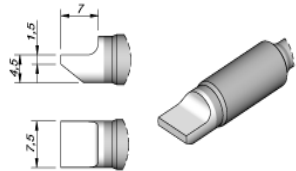
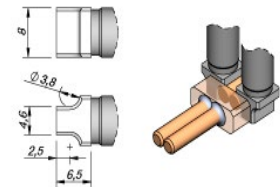
C470 Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------------|---|-----------------------|----------------|--------------------------------------|
| C470-037 | Cartridge Pin/ Connector Ø8,0 |  | Cable Through hole | Ø8x12,7mm | Station: HDE Tools: T470 range |
| C470-047 | Cartridge Pin/ Connector Ø14,0 |  | Cable Through hole | Ø14x7,5mm | Station: HDE Tools: T470 range |
| C470-041 | Cartridge Pin/ Connector Ø12,5 |  | Cable Through hole | Ø12,5x15mm | Station: HDE Tools: T470 range |
| C470-052 | Cartridge Pin/ Connector R.8,5 |  | Cables connectors | R8,5mm | Station: HDE Tools: T470 range |
| C470-010 | Cartridge Pin/ Connector R.8 |  | Cables connectors | R8mm | Station: HDE Tools: T470 range |
| C470-029 | Cartridge Pin/ Connector R.31 |  | Connectors | R31mm | Station: HDE Tools: T470 range |
| C470-042 | Cartridge Pin/ Connector Ø4,8 |  | Cable Through hole | Ø4,8x7,5mm | Station: HDE Tools: T470 range |

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

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|------------------------------------|-------|--|----------------|--------------------------------------|
| C470-012 | Cartridge Pin/ Connector R.6 S1 | | Cables Connectors | R6mm | Station: HDE Tools: T470 range |
| C470-038 | Cartridge Pin/ Connector R.6 S2 | | Wide area Cables Connectors | R6mm | Station: HDE Tools: T470 range |
| C470-020 | Cartridge Pin Ø3,4 | | Through hole | 3,4mm | Station: HDE Tools: T470 range |
| C470-045 | Cartridge Pin Ø3,5 | | Through hole Male connector | Ø3,5xØ8mm | Station: HDE Tools: T470 range |
| C470-011 | Cartridge Hook Ø4,2 | | Difficult to reach | Ø4,2mm | Station: HDE Tools: T470 range |
| C470-023 | Cartridge Blade 32,0 | | Pad cleaning Connector desoldering | 32mm | Station: HDE Tools: T470 range |
| C470-051 | Cartridge Blade Split 21,0 | | Connectors | 21mm | Station: HDE Tools: T470 range |

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

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-------------------------------|---|----------------------------|----------------|---|
| C470-025 | Cartridge for Plastics Ø1,7 |  | Plastics | Ø1,7mm | Station: HDE Tools: T470 range |
| C470-026 | Cartridge for Plastics Ø3,5 |  | Plastics | Ø3,5mm | Station: HDE Tools: T470 range |
| C470-032 | Cartridge for Plastics Ø9 |  | Plastics | Ø9 | Station: HDE Tools: T470 range |
| C470-027 | Cartridge Shield 43x20 |  | Shield desoldering | 43x20mm | Station: HDE Tools: T470 range |
| C470-043 | Cartridge Groove 1,1x10 |  | Wire soldering | 1,1x10mm | Station: HDE Tools: T470 range |
| C470-046 | Cartridge Single Flat 7,5 |  | General use Sheet metal | 7,5x1,5mm | Station: HDE Tools: T470 range HT470-A |
| C470-050 | Cartridge Pin/ Connector Ø3,8 |  | Cable Connectors | Ø3,8mm | Station: HDE Tools: T470 range HT470-A |




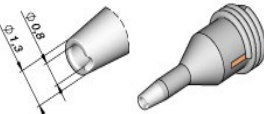
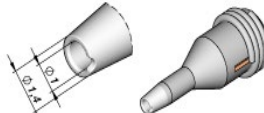
C360 Tips range

for DS360 Micro Desoldering Iron

| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|---|--------------------------|----------------|--|
| C360-001 | Micro Desoldering Tip Ø0,6 |  | Through hole Desoldering | Ø0,6mm | Control Units: CV, Di, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |
| C360-002 | Micro Desoldering Tip Ø0,8 |  | Through hole Desoldering | Ø0,8mm | Control Units: CV, Di, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |
| C360-003 | Micro Desoldering Tip Ø1 |  | Through hole Desoldering | Ø1mm | Control Units: CV, Di, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |
| C360-004 | Micro Desoldering Tip Ø1,2 |  | Through hole Desoldering | Ø1,2mm | Control Units: CV, Di, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |
| C360-007 | Micro Desoldering Tip Ø1,4 |  | Through hole Desoldering | Ø1,4mm | Control Units: CV, Di, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |
| C360-006 | Micro Desoldering Tip Ø1,5 |  | Through hole Desoldering | Ø1,5mm | Control Units: CV, Di, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |



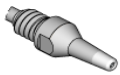
C360 Tips for **DS360** Micro Desoldering Iron

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|--------------------------------|---|----------------------|----------------|--|
|  | C360-011 | Micro Desoldering Tip Ø0,6 Pad |  | Pad desoldering | Ø0,6mm | Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |
| | C360-012 | Micro Desoldering Tip Ø0,8 Pad |  | Pad desoldering | Ø0,8mm | Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |
| | C360-013 | Micro Desoldering Tip Ø1 Pad |  | Pad desoldering | Ø1mm | Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |
| | C360-014 | Micro Desoldering Tip Ø1,2 Pad |  | Pad desoldering | Ø1,2mm | Control Units: CV, DI, DDE, DME Tool: DS360-A Modules: MVE / MSE (Pump) |

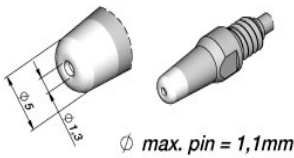
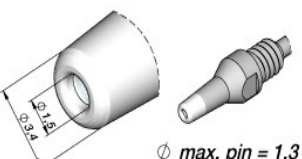
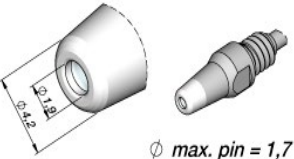
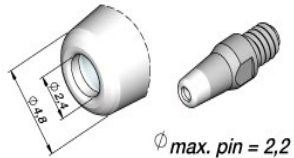
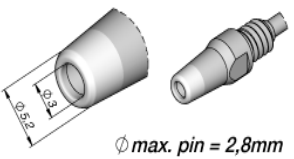
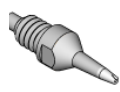
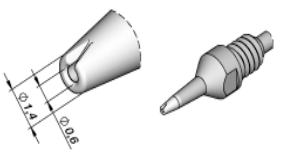
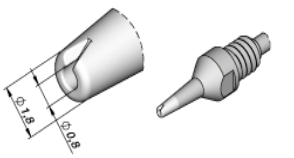


C560 Tips range
for **DR560** Desoldering Iron

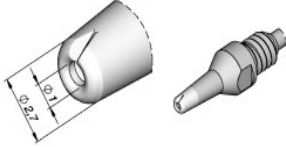
| Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|-----------------|-----------------------------|-----------------------------------|-----------------------------|----------------|--|
| C560-001 | Desoldering Tip Ø0,6 HT | $\phi \text{ max. pin} = 0,4$ | Through hole Desoldering | Ø0,6 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| C560-002 | Desoldering Tip Ø0,8 HT | $\phi \text{ max. pin} = 0,6$ | Through hole Desoldering | Ø0,8 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| C560-014 | Desoldering Tip Ø0,8 | $\phi \text{ max. pin} = 0,6$ | Through hole Desoldering | Ø0,8 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| C560-003 | Desoldering Tip Ø1 | $\phi \text{ max. pin} = 0,8$ | Through hole Desoldering | Ø1 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| C560-017 | Desoldering Tip Ø1,1 | $\phi \text{ max. pin} = 1,0$ | Through hole Desoldering | Ø1,1 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| C560-004 | Desoldering Tip Ø1,3 | $\phi \text{ max. pin} = 1,1$ | Through hole Desoldering | Ø1,3 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |



C560 Tips for **DR560** Desoldering Iron

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|---|-----------------|---------------------------------|---|-----------------------------|----------------|--|
| | C560-009 | Desoldering Tip Ø1,3 |  Ø max. pin = 1,1mm | Through hole Desoldering | Ø1,3 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| | C560-005 | Desoldering Tip Ø1,5 |  Ø max. pin = 1,3 | Through hole Desoldering | Ø1,5 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| | C560-006 | Desoldering Tip Ø1,9 |  Ø max. pin = 1,7 | Through hole Desoldering | Ø1,9 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| | C560-007 | Desoldering Tip Ø2,4 |  Ø max. pin = 2,2 | Through hole Desoldering | Ø2,4 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| | C560-015 | Desoldering Tip Ø3 |  Ø max. pin = 2,8mm | Through hole Desoldering | Ø3 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
|  | C560-011 | Desoldering Tip Ø0,6 HT PADS |  Ø max. pin = 0,6 | Pad desoldering | Ø0,6 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |
| | C560-012 | Desoldering Tip Ø0,8 HT PADS |  Ø max. pin = 0,8 | Pad desoldering | Ø0,8 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |

C560 Tips for **DR560** Desoldering Iron

| | Ref. | Cartridge & Tip description | Image | Suggested components | Tip dimensions | Connectables |
|--|-----------------|-----------------------------|---|----------------------|----------------|--|
| | C560-013 | Desoldering Tip Ø1 PADS |  | Pad desoldering | Ø1 | Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump) |

NOTES:

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