JBC

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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.

CE

ESD safe

All JBC products comply with CE standards and EDS recommendations.

BORN FOR LEAD FREE

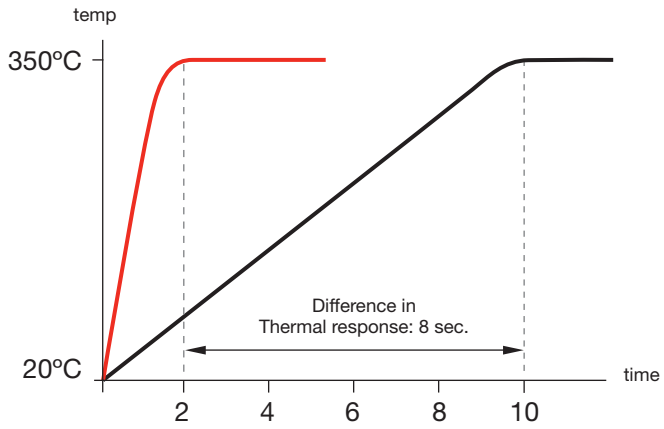
JBC Soldering SL. reserves the right to update, modify or delete any information without previous notice.

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.

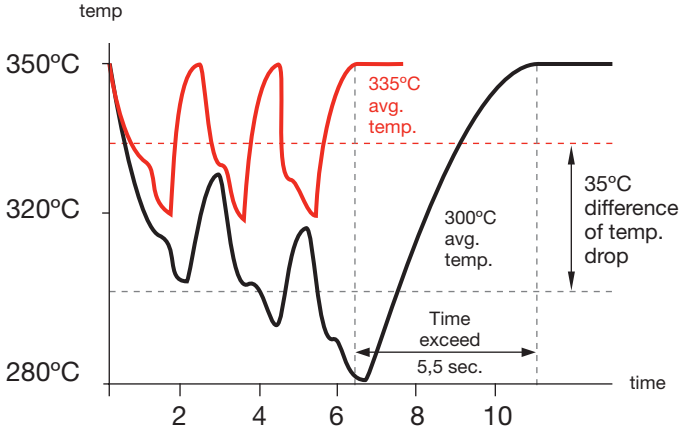
350ºC in 2 seconds



Enhanced Temperature Efficiency ▶ Increase Productivity + Better Quality

Efficient Temperature Control

Comparative process of 3 solder joints



JBC

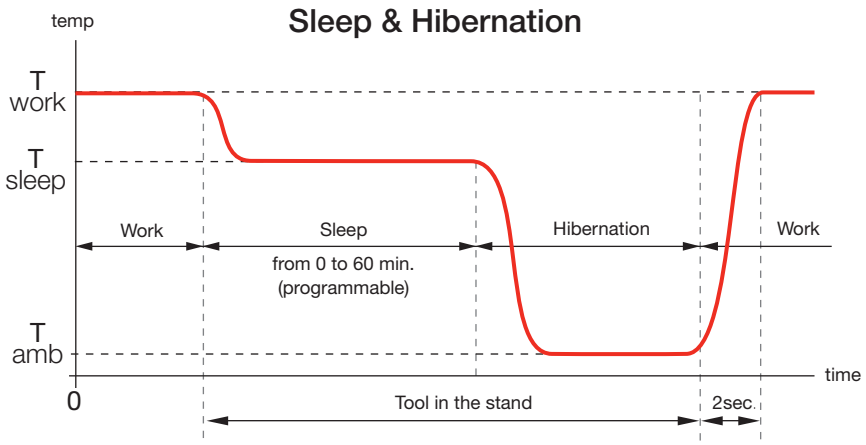
Another top brand

The Intelligent Heat Management

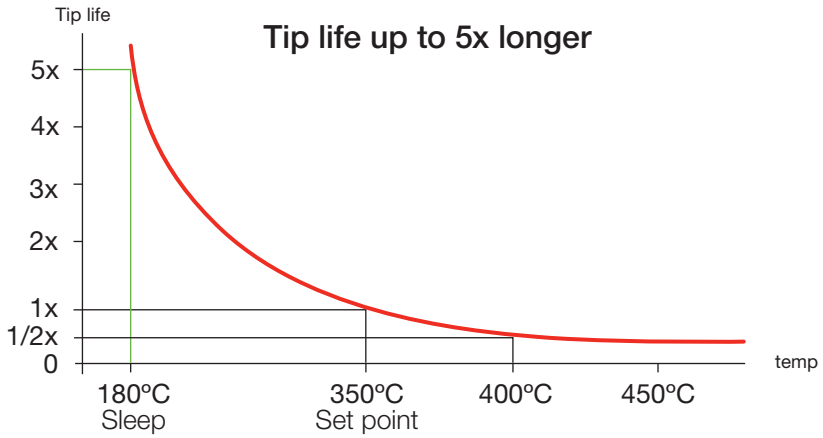
The JBC equipment also incorporates the **Sleep & Hibernation** modes to help extend tip life by further reducing the temperature when the tool is not in use. As a result, tip life increases by 5.

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.

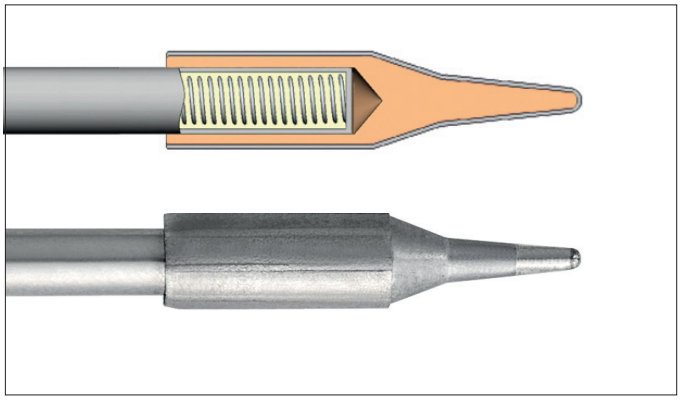


Tip life increases exponentially by using lower temperatures as shown. Using the **Sleep** mode the temperature is further reduced, which extends tip life by 5.



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

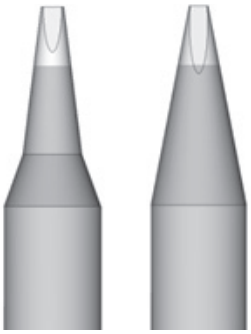
As you know, **the bigger the solder tip, the better the thermal transfer**. So remember to **select the biggest tip possible for your application.** This way you will be able to:

- Work at **lower temperatures** (350º)
- 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

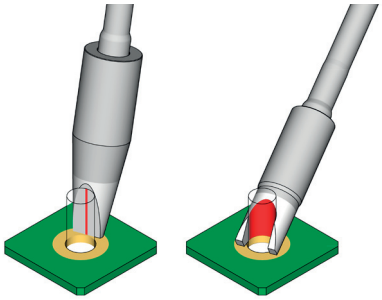
The JBC range includes models from Ø0,1 mm for precision work to the Ø15 mm for high power requirement applications.

Geometry Slimness vs Efficency



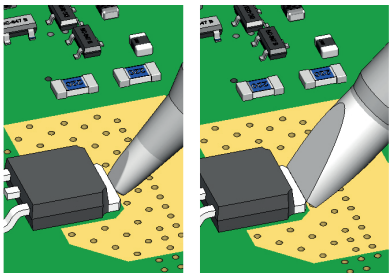
A high thermal efficient tip makes your job up to **40% faster** than a tip with a slimmer geometry.

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 JBC's cleaning methods on pages 8-9).*

Factors limiting life of tips

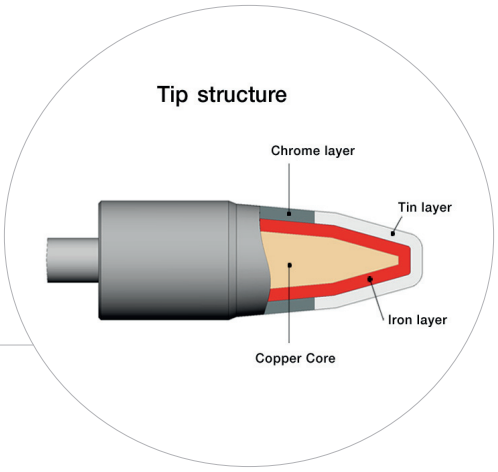
Working temperature
The higher the temperature, the higher the oxidation and the corrosion.
Work at the lowest possible temperature. Use thermal efficient tools and keep tips clean of oxidation.

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.

2 seconds HEAT UP

Cleaning systems

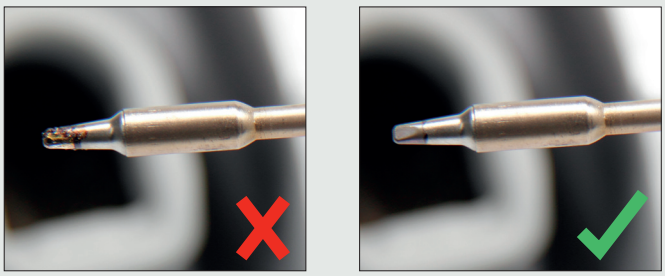
For a good thermal transfer, we must keep the tip clean of oxidizing and solder remains.

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 · 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.

Brushes for CLMS
Ref. CLMS-A8

CLMB · Automatic Senior Tip Cleaner

Ref. CLMB-A, CLMB-PA

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

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

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.

CL6166 · Tip Cleaner

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

Splashguard
Minimises splashing of solder particles.

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

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

Brushes for CLMB
Ref. CLMB-P1
Non metal brushes

Ref. CLMB-A8

Sponge
Ref. CL0354
This is the softest method. Be sure to have the sponge always clean and wet, not soaked, with de-ionated water.

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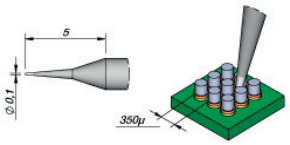
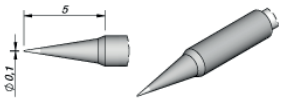
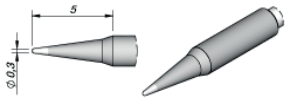
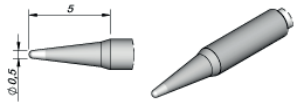
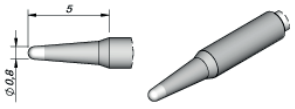
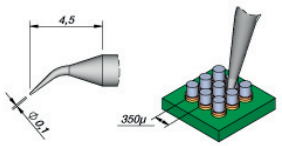
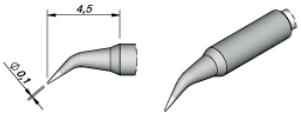
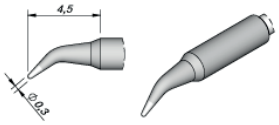
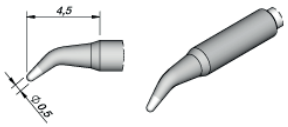
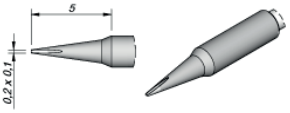
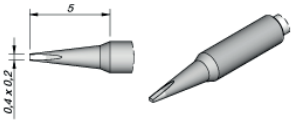
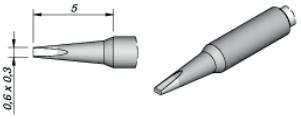
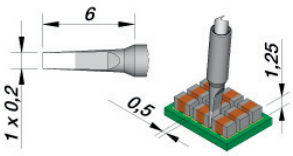
C105 Cartridge range

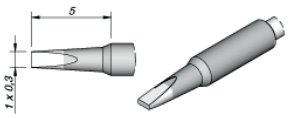
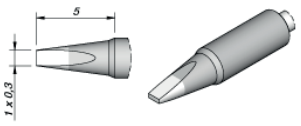
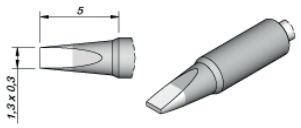
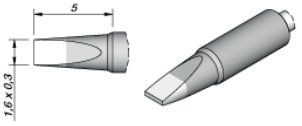
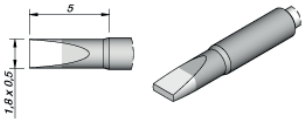
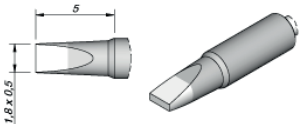
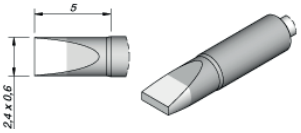
for **NP105** & **NT105** Nano tools

	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

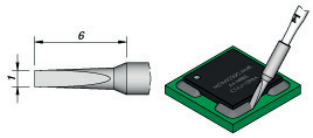
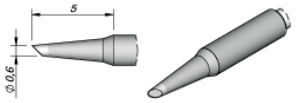
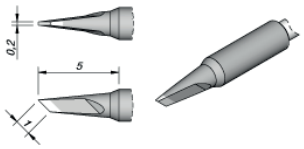
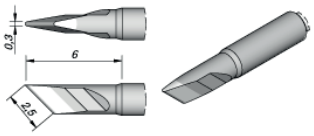
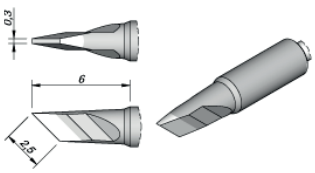
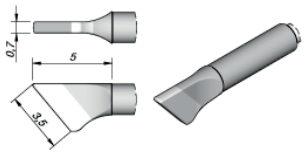
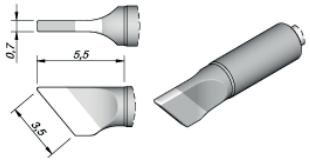
C105 Cartridges for **NP105** & **NT105** Nano tools

	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

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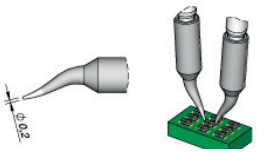
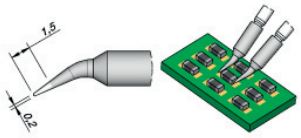
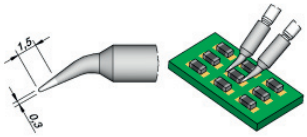
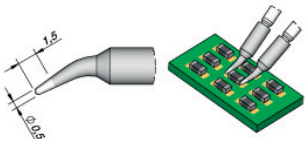
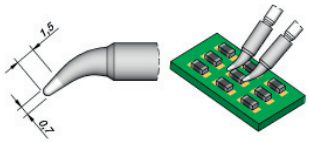
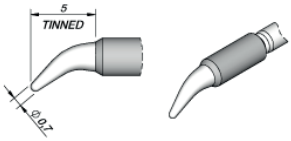
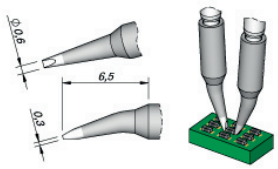
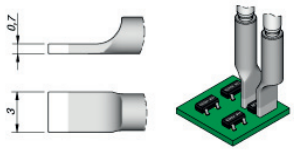
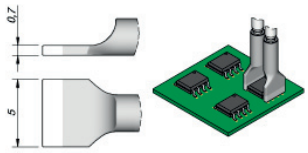
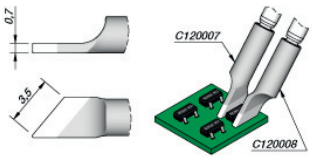
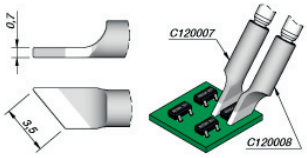
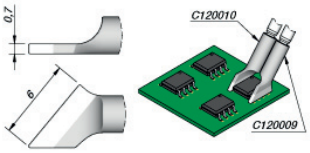
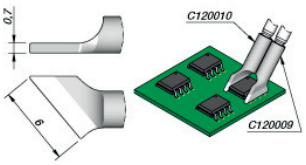
C120 Cartridges range
for PA120 Micro Tweezers

	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

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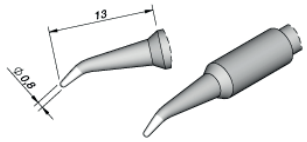
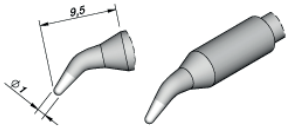
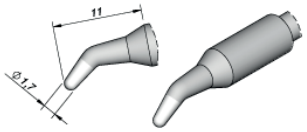
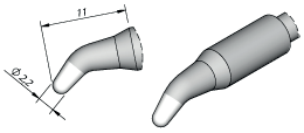
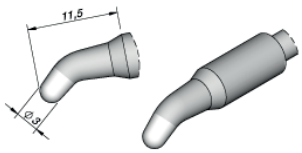
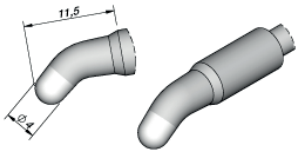
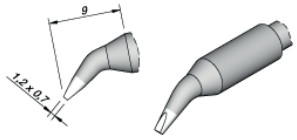
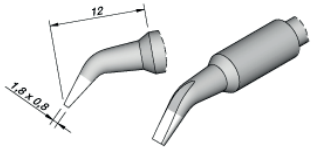
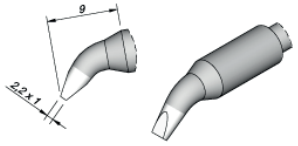
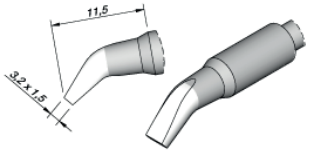
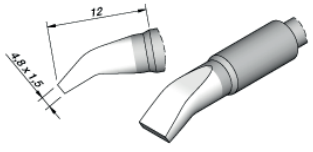
C130 Cartridges range

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

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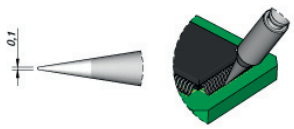
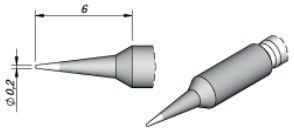
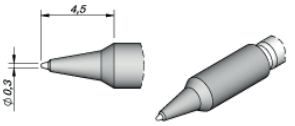
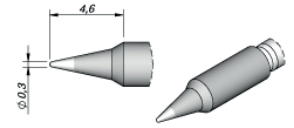
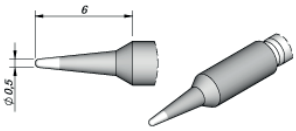
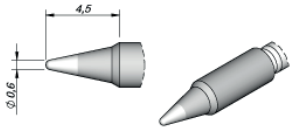
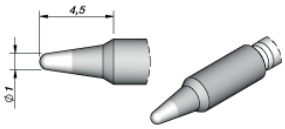
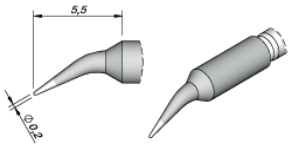
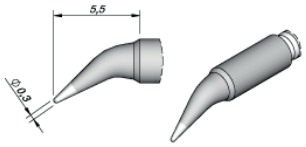
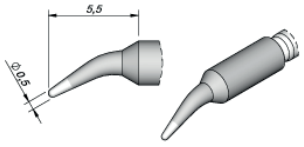
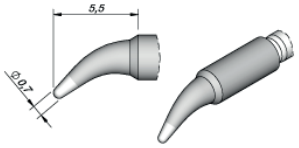
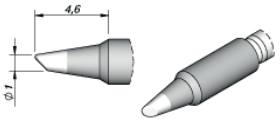
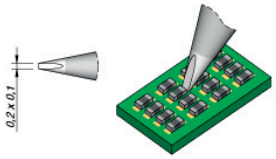
C210 Cartridges range

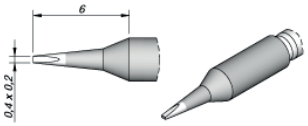
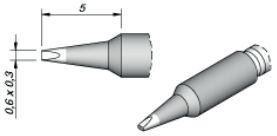
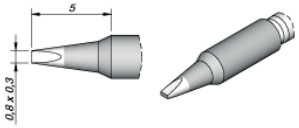
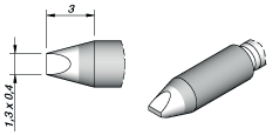
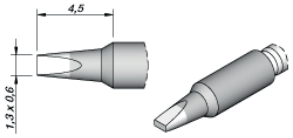
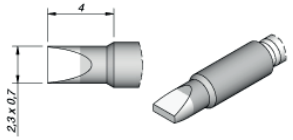
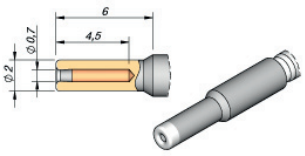
for T210 Precision Purpose Handles

	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

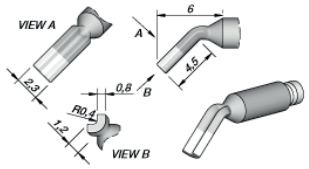
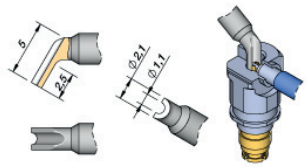
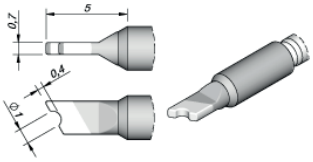
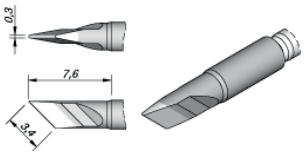
C210 Cartridges for **T210** Precision Purpose Handles

	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 Purpose 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 Purpose 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

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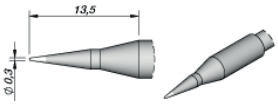
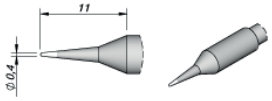
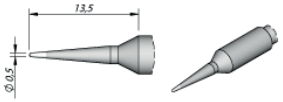
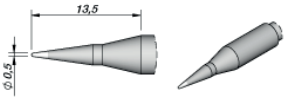
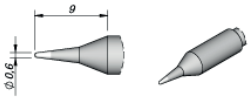
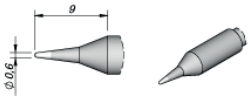
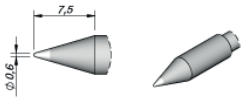
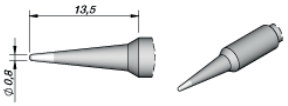
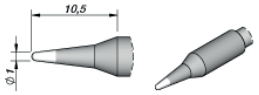
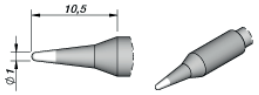
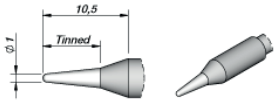
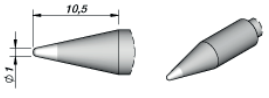
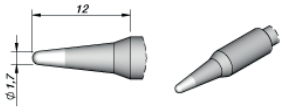
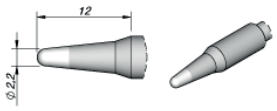
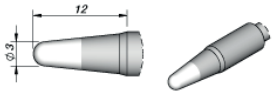
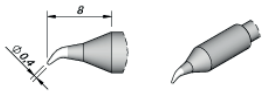
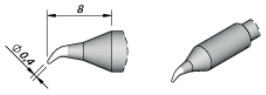
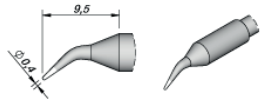
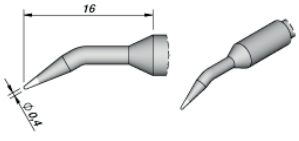
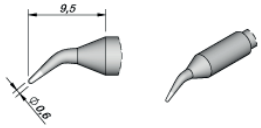
C245 Cartridges range
for T245 Handles

	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

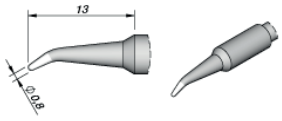
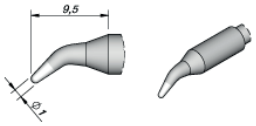
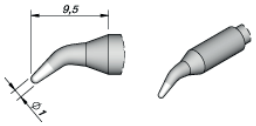
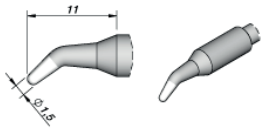
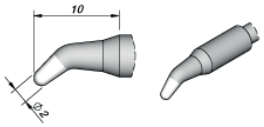
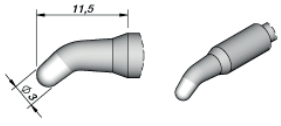
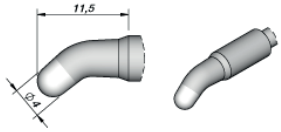
C245 Cartridges for **T245** Handles

	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

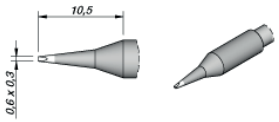
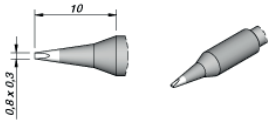
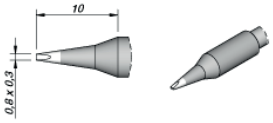
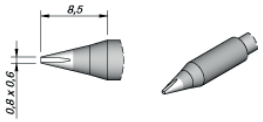
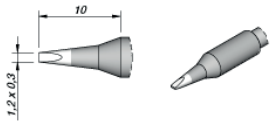
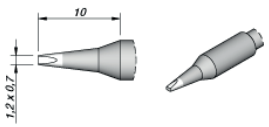
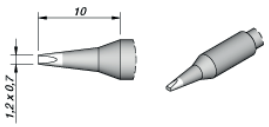
C245 Cartridges for T245 Handles

	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

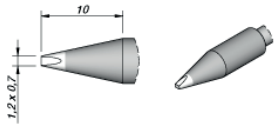
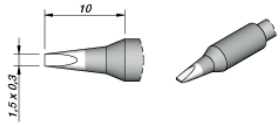
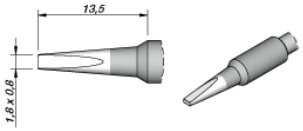
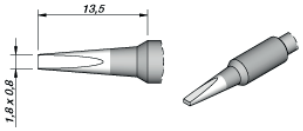
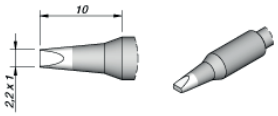
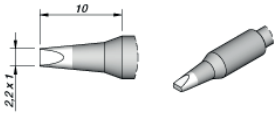
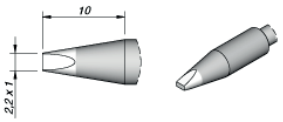
C245 Cartridges for **T245** Handles

	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

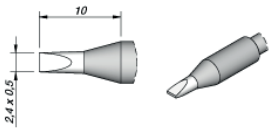
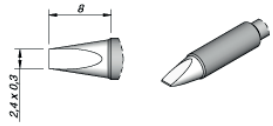
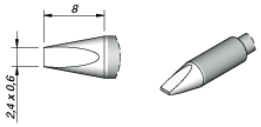
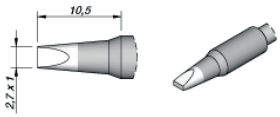
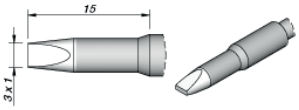
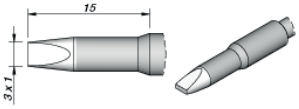
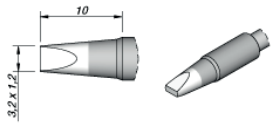
C245 Cartridges for T245 Handles

	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

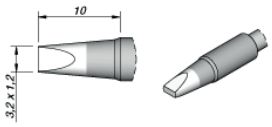
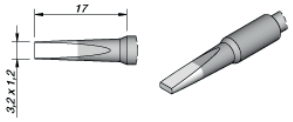
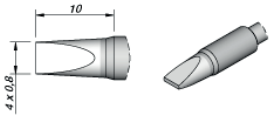
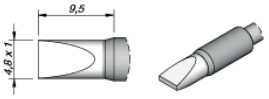
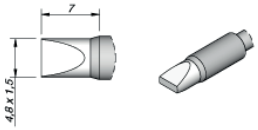
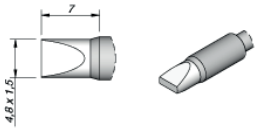
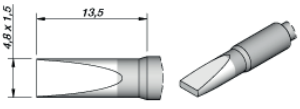
C245 Cartridges for **T245** Handles

	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

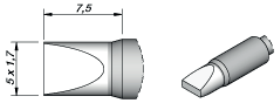
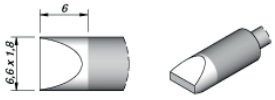
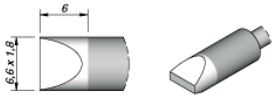
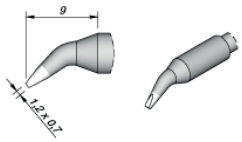
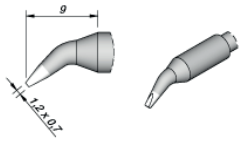
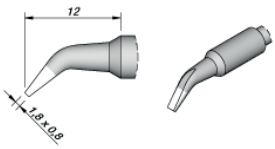
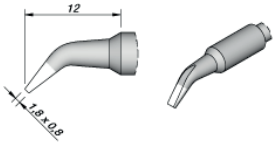
C245 Cartridges for T245 Handles

	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

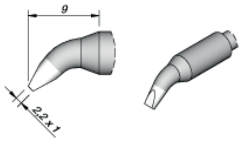
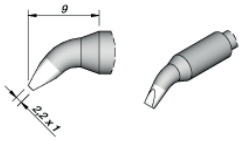
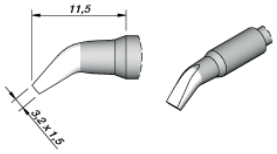
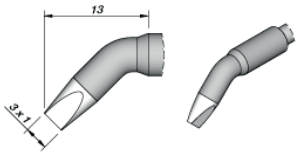
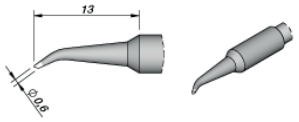
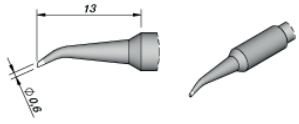
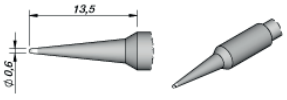
C245 Cartridges for **T245** Handles

	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

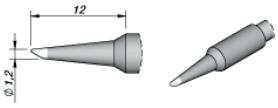
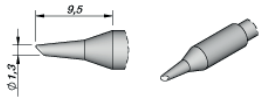
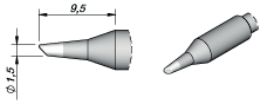
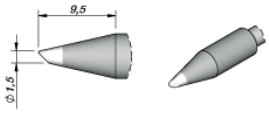
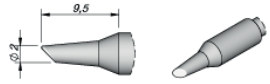
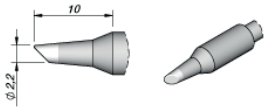
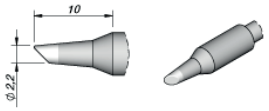
C245 Cartridges for T245 Handles

	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

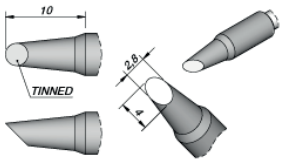
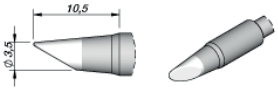
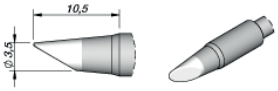
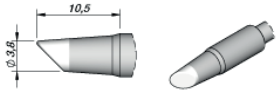
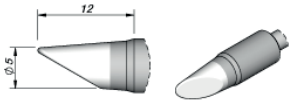
C245 Cartridges for **T245** Handles

	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

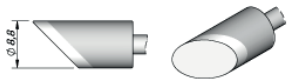
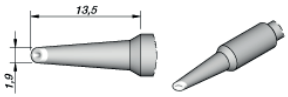
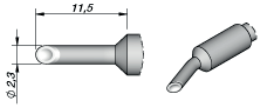
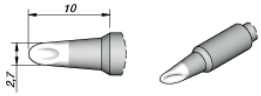
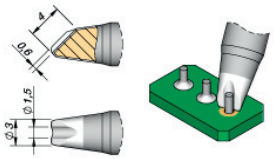
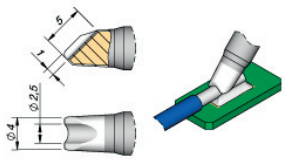
C245 Cartridges for T245 Handles

	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

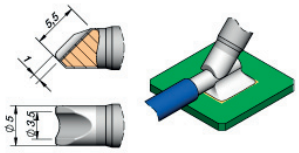
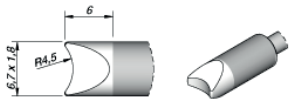
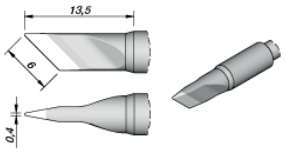
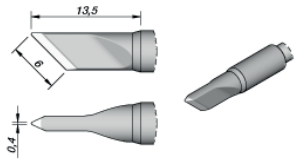
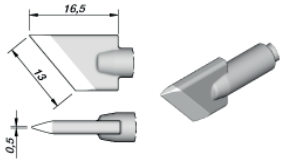
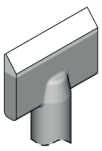
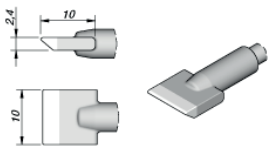
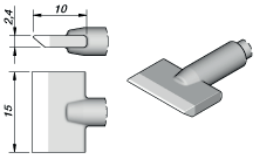
C245 Cartridges for **T245** Handles

	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

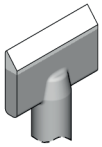
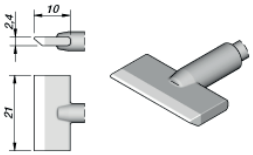
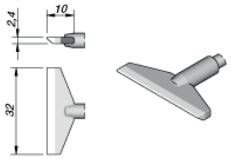
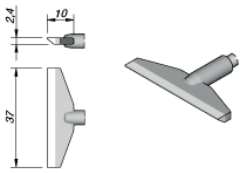
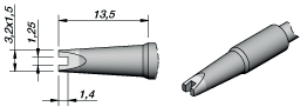
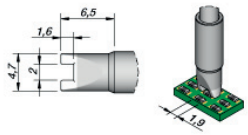
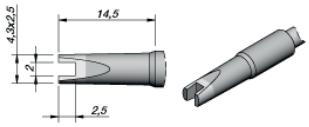
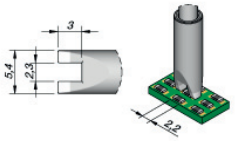
C245 Cartridges for T245 Handles

	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

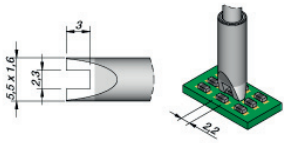
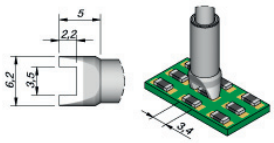
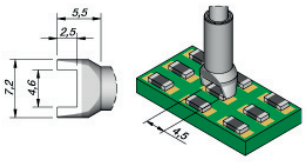
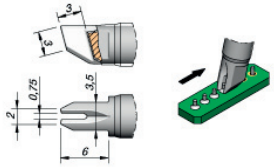
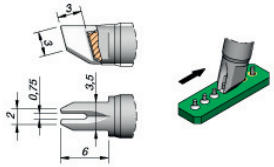
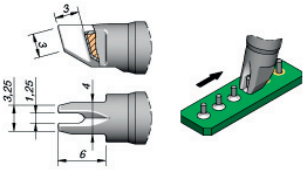
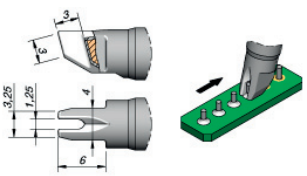
C245 Cartridges for **T245** Handles

	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

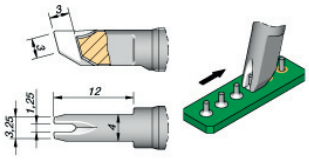
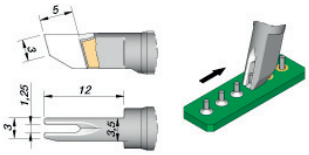
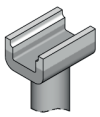
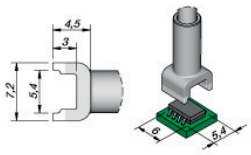
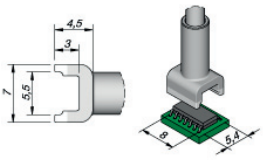
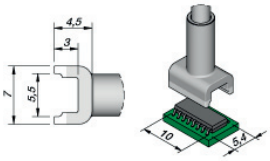
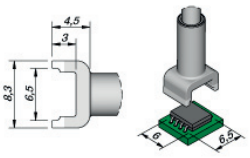
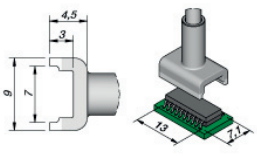
C245 Cartridges for T245 Handles

	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

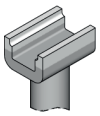
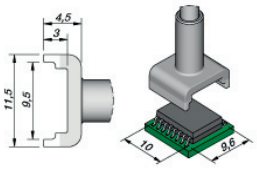
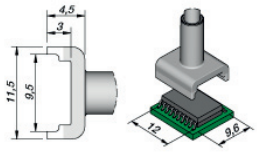
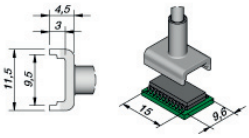
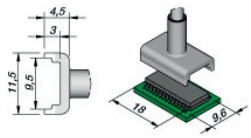
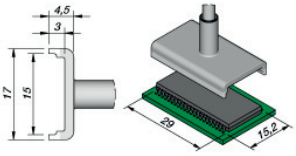
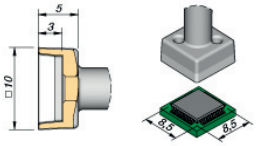
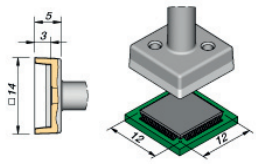
C245 Cartridges for **T245** Handles

	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

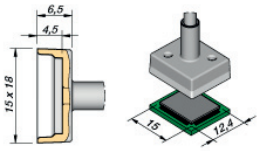
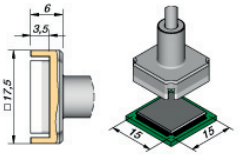
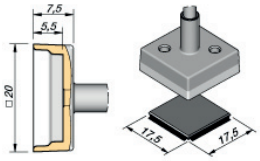
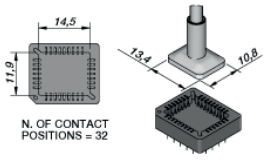
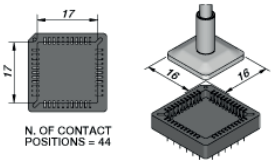
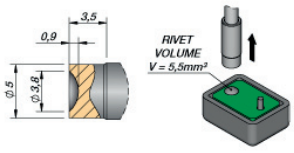
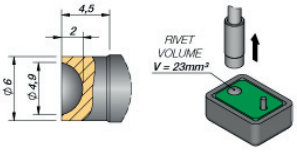
C245 Cartridges for T245 Handles

	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

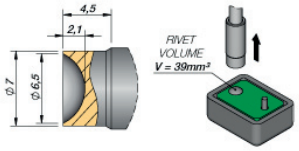
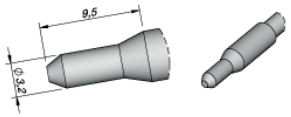
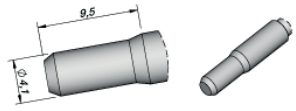
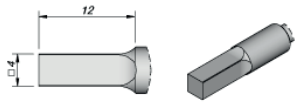
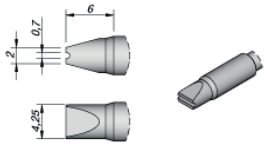
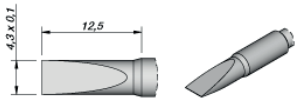
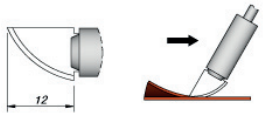
C245 Cartridges for **T245** Handles

	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

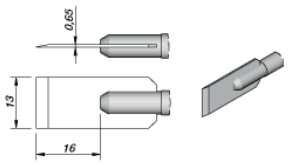
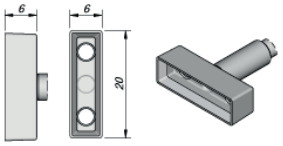
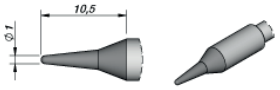
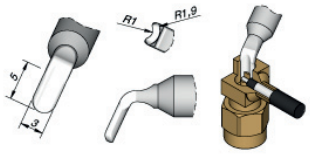
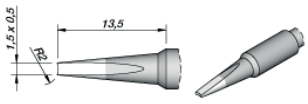
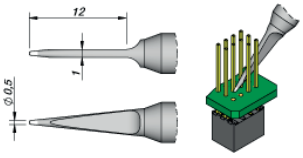
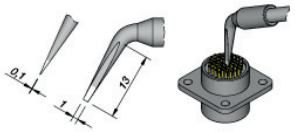
C245 Cartridges for T245 Handles

	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

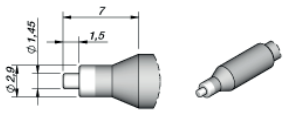
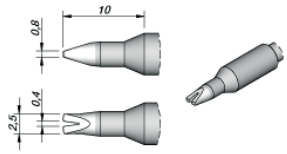
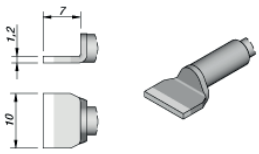
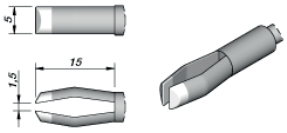
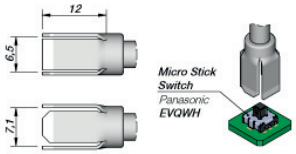
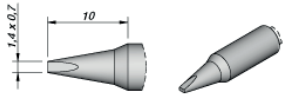
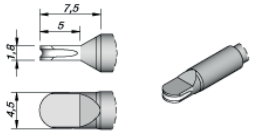
C245 Cartridges for **T245** Handles

	Ref.	Cartridge & Tip description	Image	Suggested components	Tip dimensions	Connectables
	C245-054	Cartridge Rivet Ø6,5		Chrome finisg, 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

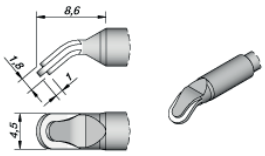
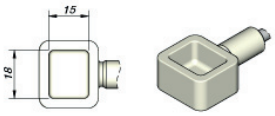
C245 Cartridges for **T245** Handles

	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		Cilinder 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 Cartridges for T245 Handles

	Ref.	Cartridge & Tip description	Image	Suggested components	Tip dimensions	Connectables
	C245-010	Cartridge J-Lead 4,5X1,8		Drag soldering J-lead	4,5x1,8mm	Control Units: CD, DI, DDE, DME Tools: T245 range
	C245-SP01	Solder Pot Cartridge 15x18		Tinnig wires Desoldering Through Hole Multipin components	15x18mm	Control Units: CD, DI, DDE, DME Tools: T245 range

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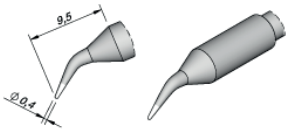
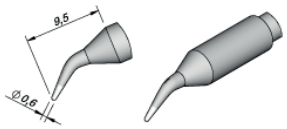
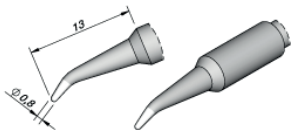
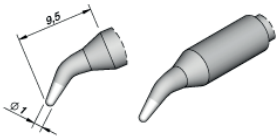
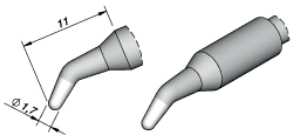
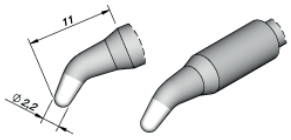
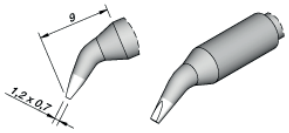
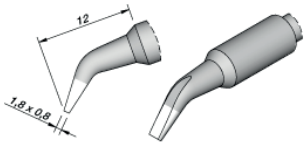
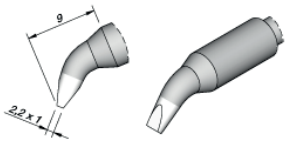
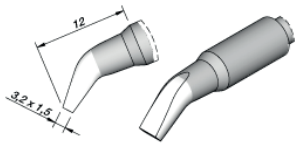
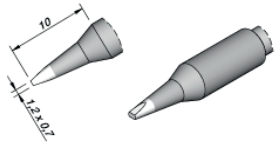
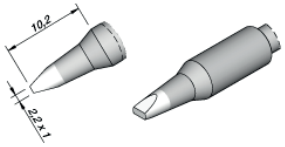
C250 Cartridges range

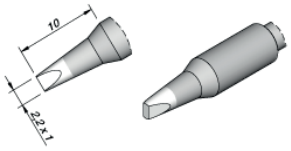
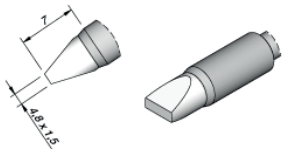
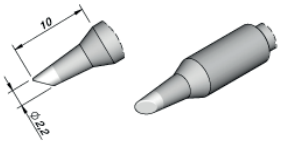
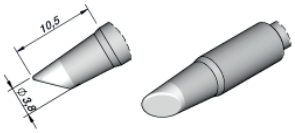
for AL250 Auto-Feed & AP250 Solder Feed Irons

	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	Stations: AL, CA Tools: AL250-B, AP250
	C250-401	Cartridge Bent Ø0,6		Package 0603 QFP, IC, ..	Ø0,6mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-402	Cartridge Bent Ø0,8		General use	Ø0,8mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-403	Cartridge Bent Ø1,0		General use	Ø1mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-409	Cartridge Bent Ø1,7		General use	Ø1,7mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-410	Cartridge Bent Ø2,2		General use	Ø2,2mm	Stations: AL, CA Tools: AL250-B, AP250

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

	Ref.	Cartridge & Tip description	Image	Suggested components	Tip dimensions	Connectables
	C250-404	Cartridge Bent 1,2x0,7		General use	1,2x0,7mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-405	Cartridge Bent 1,8x0,8		General use	1,8x0,8mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-406	Cartridge Bent 2,2x1,0		General use	2,2x1mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-418	Cartridge Bent 3,2x1,5		General use	3,2x1,5mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-412	Cartridge Bent 4,8x1,5		General use	4,8x1,5mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-407	Cartridge Chisel 1,2x0,7		General use	12x0,7mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-408	Cartridge Chisel 2,2x1 S1		General use	2,2x1mm	Stations: AL, CA Tools: AL250-B, AP250

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

	Ref.	Cartridge & Tip description	Image	Suggested components	Tip dimensions	Connectables
	C250-413	Cartridge Chisel 2,2x1 S2		General use	2,2x1mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-411	Cartridge Chisel 4,8x1,5		General use	4,8x1,5mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-414	Cartridge Bevel Ø2,2		Drag soldering Through hole	2,2mm	Stations: AL, CA Tools: AL250-B, AP250
	C250-415	Cartridge Bevel Ø3,8		Drag soldering Through hole	3,8mm	Stations: AL, CA Tools: AL250-B, AP250

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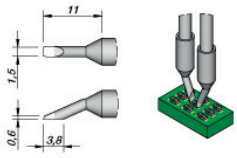
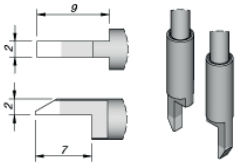
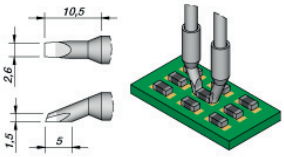
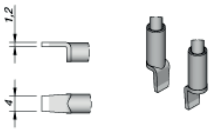
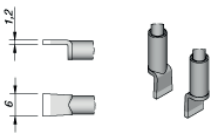
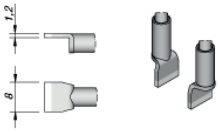
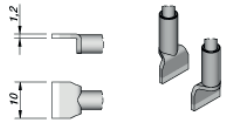
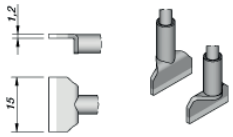
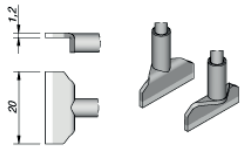
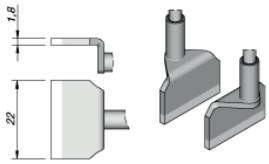
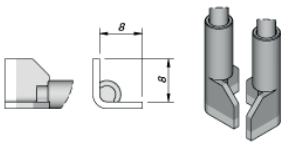
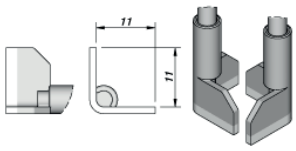
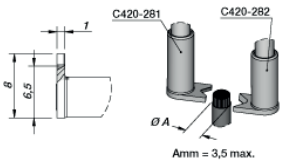
C420 Cartridges range

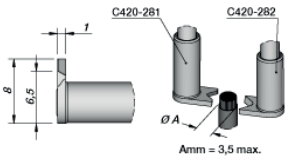
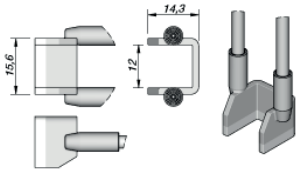
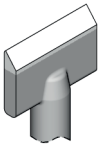
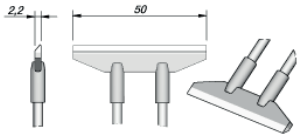
for HT420 Thermal Tweezers

	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

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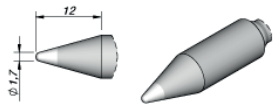
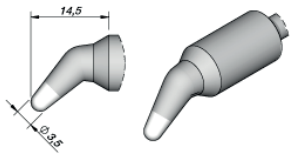
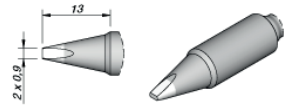
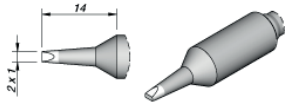
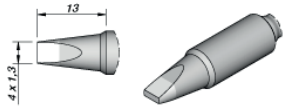
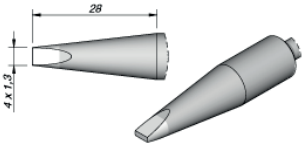
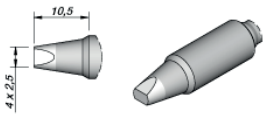
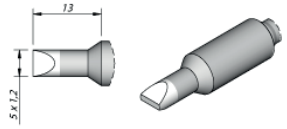
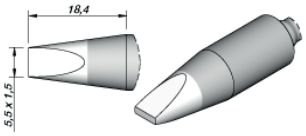
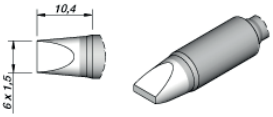
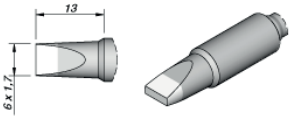
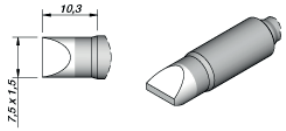
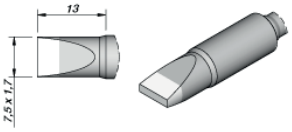
C470 Cartridges range

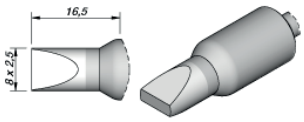
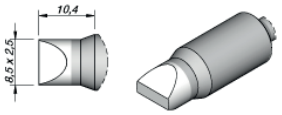
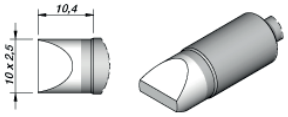
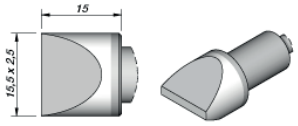
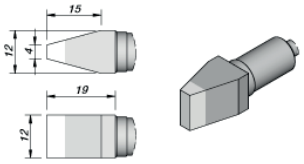
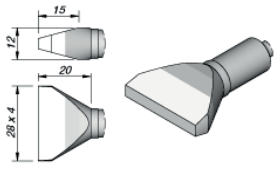
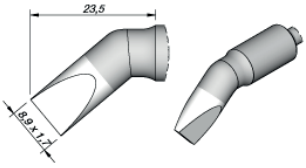
for **T470** HD Handles and **HT470** HD Thermal Tweezers

	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

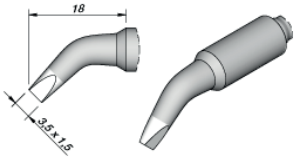
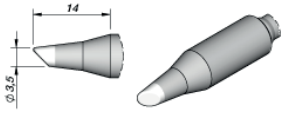
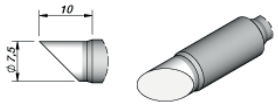
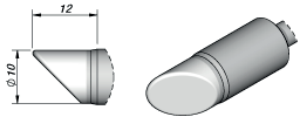
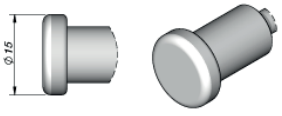
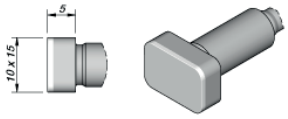
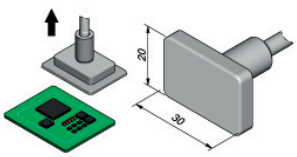
C470 Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

	Ref.	Cartridge & Tip description	Image	Suggested components	Tip dimensions	Connectables
	C470-035	Cartridge Chisel 4X2,5		General use	4x2,5m	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

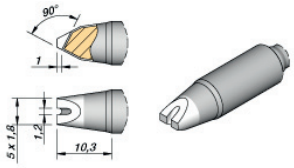
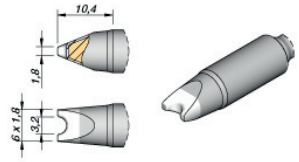
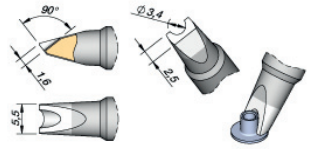
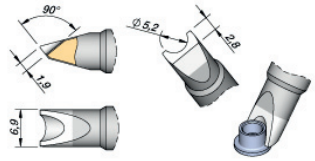
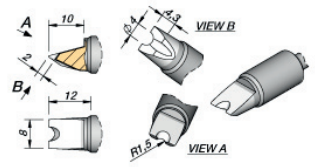
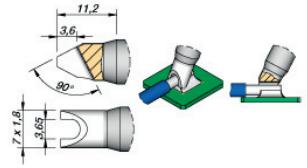
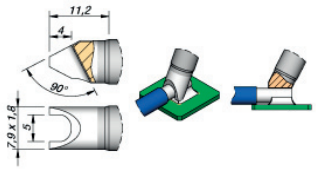
C470 Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

	Ref.	Cartridge & Tip description	Image	Suggested components	Tip dimensions	Connectables
	C470-058	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

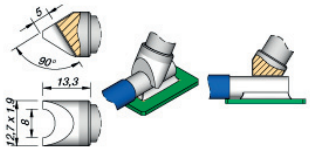
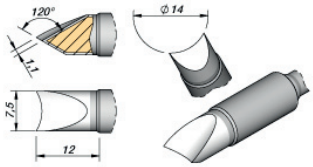
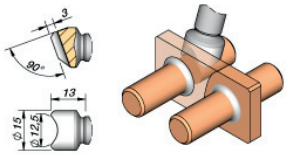
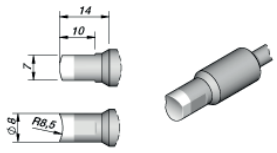
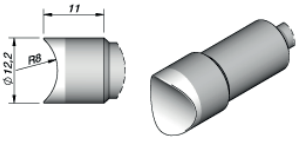
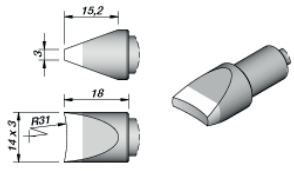
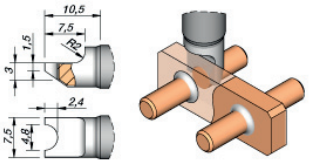
C470 Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

	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

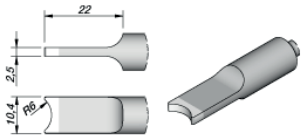
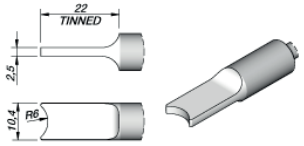
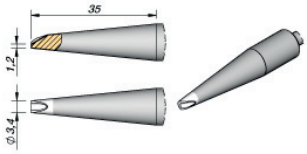
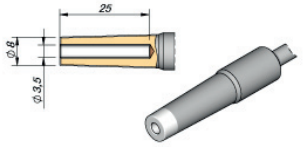
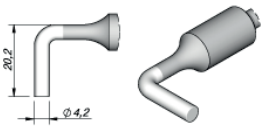
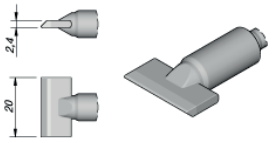
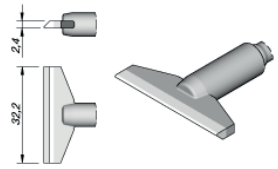
C470 Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

	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

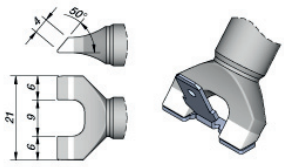
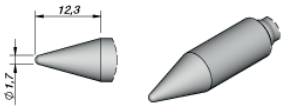
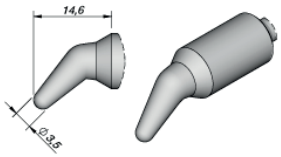
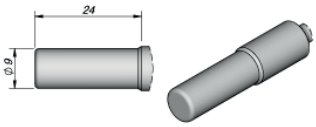
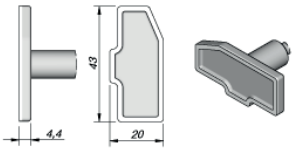
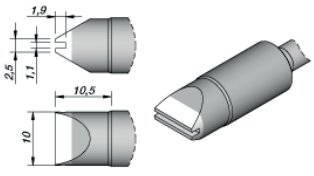
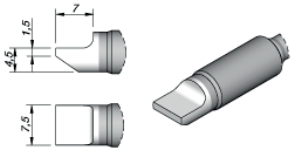
C470 Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

	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

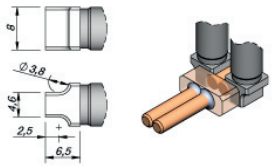
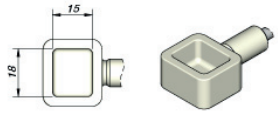
C470 Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

	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
	C470-059	Cartridge Blade 20,0		Pad cleaning Connector desoldering	20mm	Station: HDE Tools: T470 range
	C470-023	Cartridge Blade 32,0		Pad cleaning Connector desoldering	32mm	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
	C470-051	Cartridge Blade Split 21,0		Connectors	21mm	Station: HDE Tools: T470 range
	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 Cartridges for **T470** HD Handles and **HT470** HD Thermal Tweezers

	Ref.	Cartridge & Tip description	Image	Suggested components	Tip dimensions	Connectables
	C470-050	Cartridge Pin/ Connector Ø3,8		Cable Connectors	Ø3,8mm	Station: HDE Tools: T470 range HT470-A
	C470-SP01	Solder Pot Cartridge 15x18		Tinnig wires Desoldering Through Hole Multipin components	15x18mm	Station: HDE Tools: T470 range

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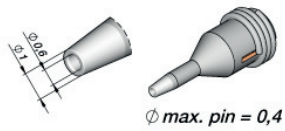
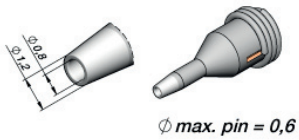
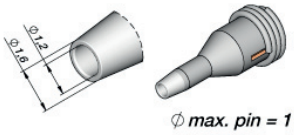
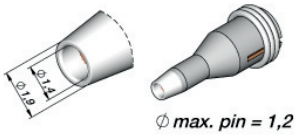
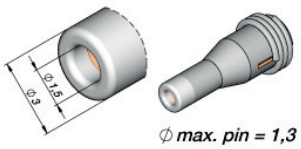
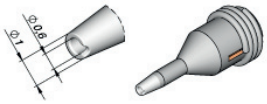
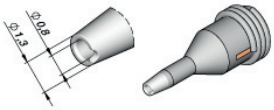
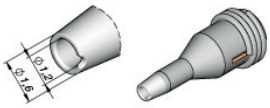
C360 Tips range
for DS360 Micro Desoldering Iron

	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)

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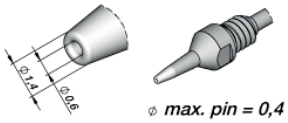
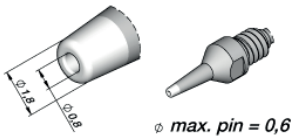
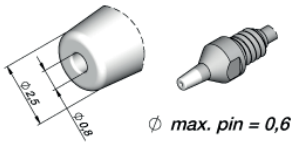
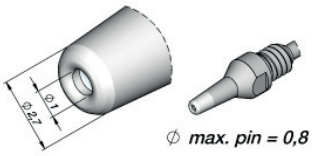
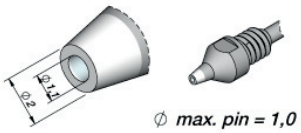
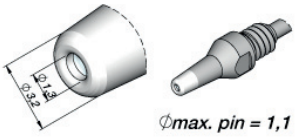
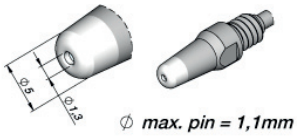
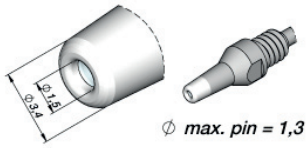
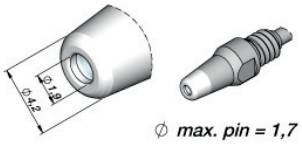
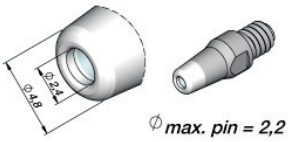
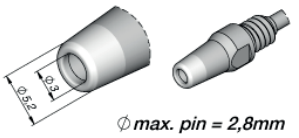
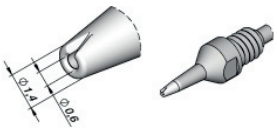
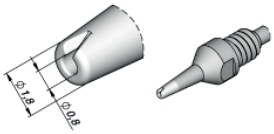
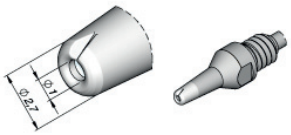
C560 Tips range
for DR560 Desoldering Iron

	Ref.	Cartridge & Tip description	Image	Suggested components	Tip dimensions	Connectables
	C560-001	Desoldering Tip Ø0,6 HT		Through hole Desoldering	Ø0,6	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-002	Desoldering Tip Ø0,8 HT		Through hole Desoldering	Ø0,8	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-014	Desoldering Tip Ø0,8		Through hole Desoldering	Ø0,8	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-003	Desoldering Tip Ø1		Through hole Desoldering	Ø1	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-017	Desoldering Tip Ø1,1		Through hole Desoldering	Ø1,3	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-004	Desoldering Tip Ø1,3		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		Through hole Desoldering	Ø1,3	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-005	Desoldering Tip Ø1,5		Through hole Desoldering	Ø1,5	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-006	Desoldering Tip Ø1,9		Through hole Desoldering	Ø1,9	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-007	Desoldering Tip Ø2,4		Through hole Desoldering	Ø2,4	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-015	Desoldering Tip Ø3		Through hole Desoldering	Ø3	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-011	Desoldering Tip Ø0,6 HT PADS		Pad desoldering	Ø0,6	Control Units: DI, DDE, DME Tool: DR560 Modules: MVE / MSE (Pump)
	C560-012	Desoldering Tip Ø0,8 HT PADS		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)

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