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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 90 years of experience have placed JBC at the technological forefront of tools for soldering and rework operations in electronics. Innovation, efficiency and reliability are the key features of a wide range of products which have been designed to satisfy the most demanding requirements of professionals.

## High technology, superior quality

Product perfection is one of the main objectives of JBC's improvement and development program.

The R&D department has created the most innovative soldering technologies, which JBC is proud to present in this catalogue.

## **CE ESD** safe

All JBC products comply with CE standards and ESD recommendations.

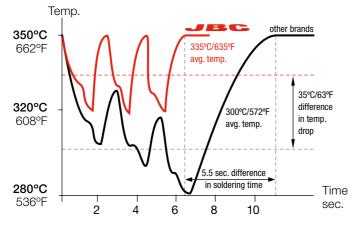


## **JBC** Technology

#### Most Efficient Soldering System

JBC Stations work with JBC Most Efficient Soldering System, which **recovers tip temperature extremely quickly**. This increases work efficiency and allows the user to work with lower temperatures.

### Efficient Temperature Control Comparative process of 3 solder joints



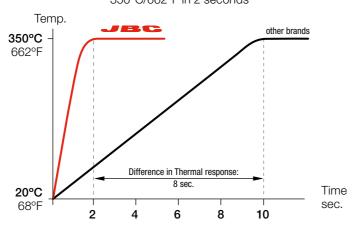
Tips with JBC Technology only drop 30°C (54°F) where others drop as much as 70°C (126°F).



#### **Productivity**

Short tip-to-sensor distance ensures extremely quick temperature recovery and an accurate control.

#### Heating System Principles 350°C/662°F in 2 seconds



#### This graph compares JBC C210 Cartridge Range to the equivalent cartridges of the best competitor.

#### Intelligent Heat Management

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

#### Sleep Mode

Sleep Mode automatically lowers tip temperature below the solder melting point when the tool rests in the stand. It prevents the dissolution of the iron tip coating into molten solder.

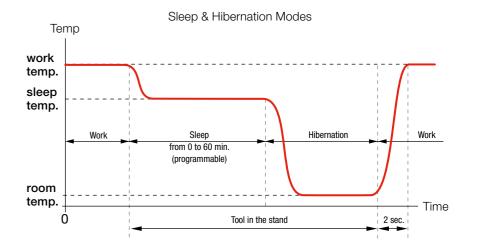
#### **Hibernation Mode**

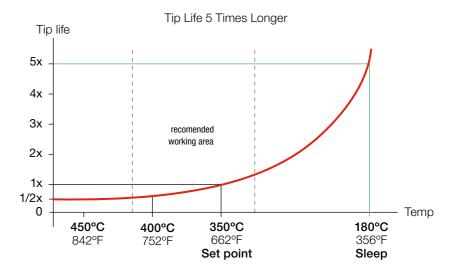
After a configurable period of tool inactivity in the stand, the tool enters Hibernation Mode.

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

#### Longer Tip life

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

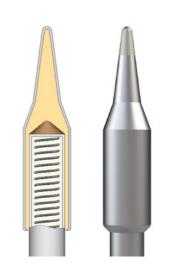




# Cartridges with long life & extended tip life

The essential part of the soldering iron is the tip. Therefore, JBC has over 500 cartridge models of different shapes and sizes to choose from, depending on each application.

JBC has developed the most advanced technology based on the following principles:



#### Excellent Heat Transfer

The compact element reduces thermal barriers.

#### Instantaneous Heating

A fully-integrated thermal sensor in the heater ensures quick temperature recovery.

#### Great Durability

The intelligent algorithm control program extends tip life.

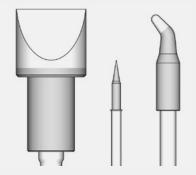


When you start working do not forget:

## Bigger is better

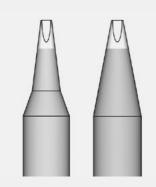
The bigger the solder tip, the better the thermal transfer. Select the tip that has the greatest contact area.

## Over 500 tips of different sizes, shapes and power



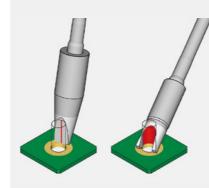
JBC Cartridges range from models for precision work to high power requirement applications.

## Geometry Slimness vs Efficiency



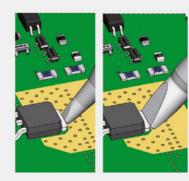
A tip with high-thermal efficiency makes your job up to 40% faster than a tip with a slimmer geometry.

## Increase the contact surface Tip - Application



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

## Largest mass possible



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

## Maintain tip surface clean and tinned



Remember that rusty and dirty surfaces reduce **heat transfer** to the solder joint.

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

## This way you will be able to:

- Work at lower temperatures (350°C / 662°F).
- Obtain better results in less time.
- Improve thermal performance.
- Increase temperature precision.
- Reduce collateral damage (thermal shock on components and PCBs).

# Factors limiting tip life

#### Working temperature

The higher the temperature, the greater the oxidation and corrosion. Work with the **lowest possible temperature** and choose the tip with the greatest contact area for each application. **Use thermally efficient tools** and keep tips clean of oxidation.

#### **Correct techniques**

Too much pressure on the surface to solder can cause tip or plate breakage. Do not use the tip as a pointed object or a screwdriver. Choose the right temperature and tip shape for each application.

#### Iron plate thickness

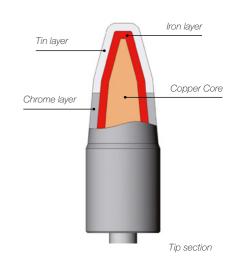
Iron plate wear shortens tip life by hollowing tips out. Do not use mechanical or chemical means to clean the tip. Use the cleaning methods provided by the manufacturer - such as brass wool, automatic tip cleaner or sponges.

#### Oxidization

An oxidized soldering iron does neither wet nor transfer heat well (dewetting). The higher the temperature, the greater the risk of oxidation. Always keep tips tinned while not in use and take advantage of JBC Sleep & Hibernation Modes.

#### Flux and solder alloy

Too much active flux can cause corrosion. IPC recommends: ROL, REL and ORL. Flux quantity inside small diameter solder wires might not be enough. Provide compatible external flux if necessary.



#### Remember:

- Work with the lowest possible temperature.
- Use thermally efficient tools.
- Choose the right temperature and tip shape for each application.
- IPC recommends: ROL, REL and ORL.
- Always keep tips tinned while not in use.
- Take advantage of JBC Sleep & Hibernation Modes.
- on the surface to solder can cause tip or plate breakage.
- Use the cleaning methods provided by the manufacturer.

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## **Cleaning Systems**

For good thermal transfer, keep the tip tinned thus free from oxides.

#### Clean the tip in less than a second



With automatic cleaners you save time and optimize production.

#### Improve heat transfer





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

#### **CL** Manual Tip Cleaner

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

#### Two modes of operation

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



#### **Cleaning Methods**

#### CL6210

#### **Brass Wool**

Very effective cleaning method. It leaves a small layer of solder on the tip to prevent oxidation between cleaning and rewetting.



#### Sponge

The least harmful cleaning method. Keep the sponge moist with distilled water when working to avoid tip wear.



### **CLMS** Junior Tip Cleaner

The ideal partner to any soldering station.



#### Save space

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

#### **Brushes**

#### CL4008

#### **Fiber Brushes**

The composition, size and thickness of the fibers ensure the most efficient cleaning and the least damage while cleaning the tip.





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

#### Easy to empty



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

#### Keep your workspace clean



The locking mechanism on the brushes makes them fast and easy to replace.

#### **CLMUP** Automatic Tip Cleaner with Fiber Brushes (non-metal)

#### **CLMU** Automatic Tip Cleaner with Metal Brushes



These cleaners are excellent for cleaning tips of different shapes and sizes. You can easily switch between sensor and continuous mode by pressing the top buttons.

#### **Brushes**

tip life.

#### CL2008 / CL2007

Fiber Brushes provides a soft cleaning especially recommended for regular usage to improve





#### CL1008 / CL1007

**Metal Brushes** provides a thorough cleaning to recover the tip. increasing heat transfer Supplied with CLMU.









Our Cartridge Range is steadily growing as we are determined to respond to our clients' specific needs, cooperating closely with them to create the right solution.



#### C115 Cartridge Range for NT115, AN115 and NP115 Nano Tools

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C115116	Chisel Cartridge 0.2 x 0.1 mm 0.008 x 0.004 in	(0.197) (0.197) (0.197) (100° x x 8000°0) (0.197) (0.197)	Package 01005, 0201 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115117	Chisel Cartridge 0.4 x 0.2 mm 0.016 x 0.008 in	20 x 0 70 000 00 000 000 000 000 000 000	Package 0402 Very fine pitch 0.65 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115108	Chisel Cartridge 0.6 x 0.3 mm 0.024 x 0.012 in	5 (0.197) (2 to 0.024 x x 0.012) (2 to 0.024 x x 0.012) (2 to 0.024 x x 0.012) (3 to 0.024 x x 0.012) (6 to 0.024 x 0.012)	Package 0603 PLCC, SO, SOT	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115125	Chisel Cartridge 1 x 0.2 mm 0.039 x 0.008 in	(6,0.236) (6,0.2	Package 0805 Difficult to reach	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115113	Chisel Cartridge 1 x 0.3 mm 0.039 x 0.012 in	5 (0.197) (0.197) (0.197) (0.197) (0.197) (0.197)	Package 0805 Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115213	Chisel Cartridge 1 x 0.3 S1 mm 0.039 x 0.012 in	(6.197) 1 (7.1070 × 66000) mm (in)	Package 0805 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115221	Chisel Cartridge 1.3 x 0.3 mm 0.051 x 0.012 in	0.13x 0.3 0.13x 0.3 0.13x 0.03 0.0051 x 0.012 0.013x 0.3 0.013x 0.3 0.013x 0.3 0.013x 0.3 0.013x 0.3 0.013x 0.3 0.012x 0.3 0.013x 0.3 0.01	Package 0805 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115



#### C115 Cartridge Range for NT115, AN115 and NP115 Nano Tools

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C115222	Chisel Cartridge 1.6 x 0.3 mm 0.063 x 0.012 in	5 (0.197) (2100 × 8 (200 × 8 (200 × 8 (200 × 8) (200 × 8	Package 0805 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115114	Chisel Cartridge 1.8 x 0.5 mm 0.071 x 0.020 in	20 x 871 (0.197) (0.197) (0.197) (0.197) (0.197) (0.197)	Package 0805 Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115214	Chisel Cartridge 1.8 x 0.5 mm S1 0.071 x 0.020 in	0000 × 14000 0000 × 14000	Package 1206, 1210 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115131	Chisel Cartridge 2 x 0.35 mm 0.079 x 0.014 in	4.5 (0.177) 980 00 × 6.00 0) 980 00 × 6.00 0) (in)	LED SMD 2727, 1921, 1415	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115223	Chisel Cartridge 2.4 x 0.6 mm 0.094 x 0.024 in	5 (0.197) (0.200 x x peoco o x peoco o x peoco o x peoco o o x peoco o o o o o o o o o o o o o o o o o o	Package 0805 Through-hole High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
2	C115109	Bevel Cartridge Ø 0.6 mm Ø 0.024 in	(0.197) (0.197) (1.197	Drag soldering SMD Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115127	Bevel Cartridge Ø 1 mm Ø 0.039 in	4.5 (0.177) (6600'0 ())	Drag soldering SMD Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115128	Spoon Cartridge Ø 1 mm Ø 0.039 in	4.5 (0.177)	Drag soldering SMD Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115



#### C115 Cartridge Range for NT115, AN115 and NP115 Nano Tools

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C115126	Conical Cartridge Ø 0.1 mm S1 Ø 0.004 in	5 (0.197) (0.000 (in)	Package 01005 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115101	Conical Cartridge Ø 0.1 mm Ø 0.004 in	5 (0.197)	Package 01005 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115103	Conical Cartridge Ø 0.3 mm S1 Ø 0.012 in	5 (0.197) (7.10° 9) (7.10° 9) (7.10° 9) (7.10° 9) (7.10° 9) (7.10° 9) (7.10° 9)	Package 0201, 0402 Very fine pitch 0.65 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115106	Conical Cartridge Ø 0.5 mm Ø 0.020 in	5 (0.197) (0.197) (0.197) (0.197)	Package 0603 QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115107	Conical Cartridge Ø 0.8 mm Ø 0.031 in	5 (0.197) (1.0000) (1.0000) (1.0000) (1.0000) (1.0000) (1.0000)	General use	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115124	Conical Bent Cartridge Ø 0.1 mm S1 Ø 0.004 in	4.5 (0.177) (0.177) (in)	Package 01005 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115118	Conical Bent Cartridge Ø 0.1 mm Ø 0.004 in	4.5 (0.177)	Package 01005 Very fine pitch 0.4 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
C115105	Conical Bent Cartridge Ø 0.3 mm Ø 0.012 in	4.5 (0.177)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115

#### C115 Cartridge Range for NT115, AN115 and NP115 Nano Tools

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C115110	Conical Bent Cartridge Ø 0.5 mm Ø 0.020 in	4.5 (2.177)	Package 0603 QFP, IC	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115120	Knife Cartridge 1 x 0.2 mm 0.039 x 0.008 in	(0.197) - (0.197	Drag soldering SMD Package 0805 Through-hole	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115112	Knife Cartridge 2.5 x 0.3 mm 0.098 x 0.012 in	(0.236) (0.236)	Drag soldering SMD SO, SOT Package 1210, 1812, 2010, 2512	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115212	Knife Cartridge 2.5 x 0.3 mm S1 0.098 x 0.012 in	6 (0.236) (0.236)	Drag soldering SMD SO, SOT Package 1210, 1812, 2010, 2512 High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115129	Knife Cartridge 2.8 x 0.2 mm 0.110 x 0.008 in	(a)	IC, Difficult to reach	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115111	Blade Cartridge 3.5 x 0.7 mm 0.138 x 0.028 in	5 (0.197) (mm	Package 1210, 1812 SO, SOT	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115211	Blade Cartridge 3.5 x 0.7 mm S1 0.138 x 0.028 in	5.5 (0.217)	Package 1210, 1812 SO, SOT High-thermal performance	Stations: NASE, NANE Tools: NT115, AN115, NP115
TO	C115132	Chip Components Cartridge 0.7 mm 0.028 in	(0.016) (0.	Package 0201	Stations: NASE, NANE Tools: NT115, AN115, NP115
	C115115	Conformal Coating Removal Steel Cartridge 1 mm 0.039 in	6 (0.236) (0.236)	Stainless Steel Remove underfill encapsulants	Stations: NASE, NANE Tools: NT115, AN115, NP115



#### C120 Cartridge Range for PA120 and AM120 Micro Tweezers

			Suggested	
Ref.	Description	Image and dimensions	components	Compatible with
C120001	Conical Bent Cartridge Ø 0.2 mm Ø 0.008 in	000000 mm (in)	Package 0201, 0402	Stations: CP, DI, DDE, DME Tools: AM120, PA120
C120002	Conical Bent Cartridge Ø 0.2 mm Ø 0.008 in	TO THE PARTY OF TH	Package 0201, 0402	Stations: CP, DI, DDE, DME Tools: AM120, PA120
C120902	Conical Bent Cartridge Ø 0.3 mm Ø 0.012 in	1.5 mm (in)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CP, DI, DDE, DME Tools: AM120, PA120
C120006	Conical Bent Cartridge Ø 0.5 mm Ø 0.020 in	15 (n) (n) (n)	Package 0603 QFP, IC	Stations: CP, DI, DDE, DME Tools: AM120, PA120
C120004	Conical Bent Cartridge Ø 0.7 mm S1 Ø 0.028 in	Total Part of the	SMD capacitors QFP, IC Through-hole	Stations: CP, DI, DDE, DME Tools: AM120, PA120
C120012	Conical Bent Cartridge Ø 0.7 mm S2 Ø 0.028 in	(0.197) TINNED  mm (in)	SMD capacitors QFP, IC Through-hole Tip with an extra tinned surface	Stations: CP, DI, DDE, DME Tools: AM120, PA120
C120011	Chisel Bent Cartridge 0.6 x 0.3 mm 0.024 x 0.012 in	6.5 (0.256)	Package 0603	Stations: CP, DI, DDE, DME Tools: AM120, PA120



#### C120 Cartridge Range for PA120 and AM120 Micro Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C120013	Blade Cartridge 2 mm 0.079 in	(8) 3 (0.099)	LED SMD 2727, 1921, 1415	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120003	Blade Cartridge 3 mm 0.118 in	(a) 1.18 (b) 1.18 (c)	Package 1210, 1812 SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120007	Blade Cartridge 3.5 mm Right 0.138 in	C120007 C120008 C120008 C120008	Package 1210, 1812 SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120008	Blade Cartridge 3.5 mm Left 0.138 in	C120007 C120008 Mm (in)	Package 1210, 1812 SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120005	Blade Cartridge 5 mm 0.197 in	(a) (b) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120009	Blade Cartridge 6 mm Right 0.236 in	C120010 C120009 Mm (in)	SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120
	C120010	Blade Cartridge 6 mm Left 0.236 in	C120010 C120009 mm (in)	SO, SOT	Stations: CP, DI, DDE, DME Tools: AM120, PA120



## C210 Cartridge Range for T210 Precision Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C210020	Conical Cartridge Ø 0.1 mm Ø 0.004 in	(0.236) - (0.236	Package 01005, 0201 Very fine pitch 0.4 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210009	Conical Cartridge Ø 0.2 mm Ø 0.008 in	(0.236) (0.236) (0.0000 (0.0000) (0.0000) (0.0000)	Package 01005, 0201 Very fine pitch 0.4mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210016	Conical Cartridge Ø 0.3 mm S1 Ø 0.012 in	4.5 (0.177) (0.177) (0.177) (0.177) (0.177)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210001	Conical Cartridge Ø 0.3 mm S2 Ø 0.012 in	4.6 (0.181)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210013	Conical Cartridge Ø 0.5 mm Ø 0.020 in	(0.236) (0.236) (0.236) (0.236) (0.236) (0.236)	Package 0603 QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210003	Conical Cartridge Ø 0.6 mm Ø 0.024 in	4.5 (0.177) (0.177) (n)	General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210005	Conical Cartridge Ø 1 mm Ø 0.039 in	4.5 (0.177)	General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N



#### C210 Cartridge Range for T210 Precision Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C210002	Conical Bent Cartridge Ø 0.2 mm Ø 0.008 in	6.5 (0.217)	Package 0201, 0402	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210010	Conical Bent Cartridge Ø 0.3 mm Ø 0.012 in	5.5 (0.217)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210014	Conical Bent Cartridge Ø 0.5 mm Ø 0.020 in	5.5 (0.217)	Package 0603 QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210004	Conical Bent Cartridge Ø 0.7 mm Ø 0.028 in	5.5 (0.217)	General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210036	Bevel Cartridge Ø 0.6 mm Ø 0.024 in	4.6 (0.181)	Drag Soldering General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210006	Bevel Cartridge Ø 1 mm Ø 0.039 in	4.6 (0.181) (0.181) (mm)	Drag Soldering General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210027	Bevel Cartridge Ø 1.5 mm Ø 0.059 in	4.6 (0.181) (6900 0) (mm)	Drag Soldering General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
	C210031	Bevel Cartridge Ø 2 mm Ø 0.079 in	4.6 (0.181)  (0.181)  (0.181)  (0.181)  (0.181)	Drag Soldering General use	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N



#### C210 Cartridge Range for T210 Precision Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C210028	Spoon Cartridge Ø 1 mm Ø 0.039 in	(68200 ) (68200 ) (68200 ) (68200 ) (68200 ) (68200 ) (68200 )	Drag soldering	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210029	Spoon Cartridge Ø 1.5 mm Ø 0.059 in	5.6 (0.220) (68000 0) (mm (m)	Drag soldering	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210030	Spoon Cartridge Ø 2 mm Ø 0.079 in	5.6 (0.220)	Drag soldering	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210038	Barrell Cartridge Ø 8 mm Ø 0.031 in	0.04 0.04 0.04 0.142) 0.142) 0.142) 0.142)	Through- hole Cable soldering / desoldering	Stations: CDS, CDES, DI, DDE, DME Tools: T210 handles
C210019	Chisel Cartridge 0.2 x 0.1 mm 0.008 x 0.004 in	6 (0.236) 10000 x x 800000 20000 mmm (m)	Package 01005, 0201 Very fine pitch 0.4 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210023	Chisel Cartridge 0.4 x 0.2 mm 0.016 x 0.008 in	6 (0.236) 70 × × 1000 70 × 1	Package 0402 Very fine pitch 0.65 mm QFP, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210021	Chisel Cartridge 0.6 x 0.3 mm 0.024 x 0.012 in	5 (0.197) 800 x x peque 0 (m)	Package 0603	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210024	Chisel Cartridge 0.8 x 0.3 mm 0.032 x 0.012 in	5 (0.197) (210°0 x 280°0) (20°0 x 280°0) (20°0 x 280°0) (20°0 x 280°0)	Package 0805 Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210022	Chisel Cartridge 1.3 x 0.4 mm 0.051 x 0.016 in	3 x 6.000 (an)	Package 0805 Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N

#### C210 Cartridge Range for T210 Precision Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C210008	Chisel Cartridge 1.3 x 0.6 mm 0.051 x 0.024 in	4.5 (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177)	Package 0805 Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210007	Chisel Cartridge 2.3 x 0.7 mm 0.091 x 0.028 in	4 (0.158) (0.158) (0.200 × 150 0) (0.158) (0.158) (0.158) (0.158) (0.158)	Package 0805 Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210017	Pin Cartridge Ø 0.7 mm Ø 0.028 in	6 (2.236) -4.57 - (3.177) -(3.	Through-hole	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210015	Pin/Connector Cartridge Ø 0.8 mm Ø 0.032 in	0.8 (0.032) B (0.032) B (0.032) B (0.032)	Through-hole Coaxial connector	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210025	Pin/Connector Cartridge Ø 1.1 mm Ø 0.043 in		Through-hole Coaxial connector	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210012	Pin/Wire Cartridge Ø 1 mm Ø 0.039 in	0.1 (0.197) - (0	Cables Connectors	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210033	Knife Cartridge 2.5 x 0.3 mm 0.098 x 0.012 in	7.6 (0.299)  mm (in)	Drag soldering SMD SO, SOT Package 1210, 1812, 2010, 2512	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210018	Knife Cartridge 3.4 x 0.3 mm 0.134 x 0.012 in	7.6 (0.299)	Drag soldering SMD SO, SOT Package 1210, 1812, 2010, 2512	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N
C210034	Conformal Coating Removal Steel Cartridge 1 x 0.1 mm 0.039 x 0.004 in	6.6 (0.260) (6500) (610)	Stainless Steel Remove underfill encapsulants	Stations: CDS, CDES, DI, DDE, DME Tools: T210, T210P, T210N









C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245957	Conical Cartridge Ø 0.8 mm Ø 0.031 in	13.5 (0.531) (0.531) (0.531) (0.531)	Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245903	Conical Cartridge Ø 1 mm S1 Ø 0.040 in	10.5 (0.413)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245041	Conical Cartridge Ø 1 mm S2 Ø 0.040 in	10.5 (0.413) Tinned (68000)	General use Tip with an extra tinned surface	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245803	Conical Cartridge Ø 1 mm L Ø 0.040 in	10.5 (0.413)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245403	Conical Cartridge Ø 1 HT mm Ø 0.040 in	10.5 (0.413)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245943	Conical Cartridge Ø 1.7 mm Ø 0.070 in	12 (0.472) (0.472) (0.472) (0.472) (0.472) (0.472)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245933	Conical Cartridge Ø 2.2 mm Ø 0.090 in	12 (0.472) (0.672) (0.672) (0.672) (0.672)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245107	Conical Cartridge Ø 3 mm HT Ø 0.118 in	12 (0.472)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245034	Conical Bent Cartridge Ø 0.4 mm S1 Ø 0.016 in	8 (0.315)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245234	Conical Bent Cartridge Ø 0.4 mm S1 L Ø 0.016 in	8 (0.315) (mm (in)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245029	Conical Bent Cartridge Ø 0.4 mm S2 Ø 0.016 in	9.5 (0.374)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245126	Conical Bent Cartridge Ø 0.4 mm S3 Ø 0.016 in	16 (0.630)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245786	Conical Bent Cartridge Ø 0.4 mm S4 Ø 0.016 in	14 (0.551)	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245929	Conical Bent Cartridge Ø 0.6 mm Ø 0.024 in	9.5 (0.374) — — — — — — — — — — — — — — — — — — —	Package 0603 QFP, IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245935	Conical Bent Cartridge Ø 0.8 mm Ø 0.031 in	13 (0.512)	Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245904	Conical Bent Cartridge Ø 1 mm Ø 0.039 in	9.5 (0.374) mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245804	Conical Bent Cartridge Ø 1 mm L Ø 0.039 in	9.5 (0.374) mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245259	Conical Bent Cartridge Ø 1.5 mm Ø 0.059 in	11 (0.433)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245260	Conical Bent Cartridge Ø 2 mm HT Ø 0.079 in	10 (0.394) (m)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245627	Conical Bent Cartridge Ø 3 mm Ø 0.118 in	11.5 (0.453) mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245628	Conical Bent Cartridge Ø 4 mm HT Ø 0.157 in	11.5 (0.453) mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
8	C245731	Chisel Cartridge 0.6 x 0.3 mm 0.024 x 0.011 in	10.5 (0.413) (1100 × × × × × × × × × × × × × × × × × ×	Package 0603	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245773	Chisel Cartridge 0.8 x 0.3 mm 0.031 x 0.011 in	10 (0.394) (1.000 x 15000) (in)	Package 0805 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245673	Chisel Cartridge 0.8 x 0.3 mm L 0.031 x 0.011 in	10 (0.394) (1100 × 1500) (1100 × 1500) (1100 × 1500) (1100 × 1500) (1100 × 1500)	Package 0805 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245742	Chisel Cartridge 0.8 x 0.6 mm HT 0.032 x 0.024 in	900 x 2500 0) 1000 x 2500 0) 1000 x 2500 0)	Package 0805 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245774	Chisel Cartridge 1.2 x 0.3 mm 0.047 x 0.012 in	10 (0.394) (7:10:00 × 240:00) (7:10:00 × 27:10 (m)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245906	Chisel Cartridge 1.2 x 0.7 mm 0.047 x 0.027 in	10 (0.394) 1 (0.394) 1 (in) (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245806	Chisel Cartridge 1.2 x 0.7 mm L 0.047 x 0.028 in	10 (0.394) (0.394) (0.394) (0.394) (0.394)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245406	Chisel Cartridge 1.2 x 0.7 mm HT 0.047 x 0.028 in	10 x 27 x (0.394)   (0.394)   (mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245768	Chisel Cartridge 1.5 x 0.3 mm 0.059 x 0.012 in	10 (0.394) (0.394) (0.394) (0.394) (0.394) (0.394) (0.394)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245944	Chisel Cartridge 1.8 x 0.8 mm 0.070 x 0.031 in	13.5 (0.531) (1.600 × 2000) (1.600 × 2000) (1.600 × 2000) (1.600 × 2000) (1.600 × 2000) (1.600 × 2000)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245844	Chisel Cartridge 1.8 x 0.8 mm L 0.071 x 0.031 in	13.5 (0.531) (0.531) (0.531) (0.531) (1.500 × × × × × × × × × × × × × × × × × ×	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245907	Chisel Cartridge 2.2 x 1 mm 0.087 x 0.039 in	10 (0.394) (0.394) (mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245807	Chisel Cartridge 2.2 x 1 mm L 0.087 x 0.039 in	10 (0.394) (0.394) (mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245407	Chisel Cartridge 2.2 x 1 mm HT 0.087 x 0.039 in	10 (0.394)   (0.394)   (0.394)   (0.394)   (0.394)   (0.394)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245770	Chisel Cartridge 2.4 x 0.3 mm 0.094 x 0.012 in	0.034 x 0.03 0.034 x 0.012 mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245759	Chisel Cartridge 2.4 x 0.5 mm HT 0.094 x 0.019 in	10 (0.394) (6.000 x peoco) (6.000 x peoco) (6.000 x peoco) (6.000 x peoco) (6.000 x peoco)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245741	Chisel Cartridge 2.4 x 0.6 mm HT 0.095 x 0.024 in	8 (0.315) (0.000 × 0.000) (0.000) (0.000) (0.000) (0.000) (0.000)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245729	Chisel Cartridge 2.7 x 1 mm 0.106 x 0.039 in	10.5 (0.413) 1x x 2 (0.413) (6800 x x 2 2010) (600) (600) (600) (600)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245061	Chisel Cartridge 3 x 1 mm 0.118 x 0.039 in	15 (0.591) (6500 x x 81110) (6700 x x 81110) (6700 x x 81110)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245261	Chisel Cartridge 3 x 1 mm L 0.118 x 0.039 in	15 (0.591) (68000 x 81110) (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245911	Chisel Cartridge 3.2 x 1.2 mm 0.126 x 0.047 in	10 (0.394)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245775	Chisel Cartridge 3.2 x 1.2 mm S1 0.126 x 0.047 in	77 x 2 c c c c c c c c c c c c c c c c c c	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245811	Chisel Cartridge 3.2 x 1.2 mm L 0.125 x 0.047 in	10 (0.394) (0.394) (0.394) (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245755	Chisel Cartridge 4 x 0.8 mm HT 0.157 x 0.031 in	10 (0.394) (1850 0 × L51 0) (10.394) (10.394) (10.394) (10.394)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245756	Chisel Cartridge 4.8 x 1 mm HT 0.189 x 0.374 in	9.5 (0.374)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245908	Chisel Cartridge 4.8 x 1.5 mm HT S1 0.189 x 0.059 in	(65000 x 681.0) (65000 x 681.0) (671 x 679 x 681.0)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245808	Chisel Cartridge 4.8 x 1.5 mm HT L 0.189 x 0.059 in	7 (0.276) (0.276) (0.276) (0.276) (0.276) (0.276) (0.276) (0.276)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245708	Chisel Cartridge 4.8 x 1.5 mm HT S2 0.189 x 0.059 in	13.5 (0.531) 91. x 8 681 0) mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245967	Chisel Cartridge 5 x 1 mm HT 0.197 x 0.039 in	8.8 (0.346) (0.346) (0.346) (0.346) (0.346) (0.346)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245069	Chisel Cartridge 5 x 1.7 mm HT 0.197 x 0.067 in	7.7.5 (0.295) L1300 x L610 (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245966	Chisel Cartridge 6.6 x 1.8 mm HT 0.259 x 0.071 in	6 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245866	Chisel Cartridge 6.6 x 1.8 mm HT L 0.259 x 0.071 in	(in) (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245962	Chisel Bent Cartridge 1.2 x 0.7 mm 0.047 x 0.027 in	9 (0.354) Total	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245862	Chisel Bent Cartridge 1.2 x 0.7 mm L 0.047 x 0.028 in	(0.354) (0.354) (0.354) (0.354) (0.354) (0.354) (0.354) (0.354)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245963	Chisel Bent Cartridge 1.8 x 0.8 mm 0.071 x 0.031 in	12 (0.472)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



02 10 Gui ilia	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C245863	Chisel Bent Cartridge 1.8 x 0.8 mm L 0.071 x 0.031 in	12 (0.472) day day day mm (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245946	Chisel Bent Cartridge 2.2 x 1 mm 0.087 x 0.039 in	(0.354) - (0.354	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245846	Chisel Bent Cartridge 2.2 x 1 mm L 0.087 x 0.039 in	9 (0.354)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245732	Chisel Bent Cartridge 3.2 x 1.5 mm 0.126 x 0.059 in	11.5 (0.453)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245761	Chisel Bent Cartridge 3 x 1 mm 0.118 x 0.039 in	7.3 (0.512) 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3 7.3	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245747	Bevel Cartridge Ø 0.6 mm Ø 0.024 in	13.5 (0.531) 18200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Package 0603 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245710	Bevel Cartridge Ø 1.2 mm Ø 0.047 in	12 (0.472)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245064	Bevel Cartridge Ø 1.3 mm Ø 0.051 in	9.5 (0.374) (1.800 ©) (1.000 ©) (1.000 ©) (1.000 ©) (1.000 ©)	Drag soldering Through-hole Hoof tip with reduced tinned surface, ideal for touch-up	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
8	C245905	Bevel Cartridge Ø 1.5 mm Ø 0.059 in	9.5 (0.374)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245405	Bevel Cartridge Ø 1.5 mm HT Ø 0.059 in	9.5 (0.374) (685010 (b) (in)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245102	Bevel Cartridge Ø 2 mm Ø 0.079 in	9.5 (0.375)	Drag soldering Through-hole Hoof tip with reduced tinned surface, ideal for touch-up	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245945	Bevel Cartridge Ø 2.2 mm Ø 0.087 in	10 (0.394)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245845	Bevel Cartridge Ø 2.2 mm L Ø 0.087 in	10 (0.394) (0.394) (0.394) (0.394) (0.394)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245795	Bevel Cartridge Ø 2.5 mm L Ø 0.098 in	30.6 (1.205) 5 (0.197) 9.660 660 600 600 600 600 600 600 600 600	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245784	Bevel Cartridge Ø 2.8 mm Ø 0.110 in	10 (0.394) (0.157) TINNED mm (in)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245793	Bevel Cartridge Ø 2.8 mm - 60° Ø 0.110 in - 60°	12 (0.472)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245912	Bevel Cartridge Ø 3 mm Ø 0.118 in	8 (0.315) (0.315) (in)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245812	Bevel Cartridge Ø 3 mm L Ø 0.118 in	8 (0.315)   (0.3	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245056	Bevel Cartridge Ø 3.5 mm HT Ø 0.138 in	10.5 (0.413)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245256	Bevel Cartridge Ø 3.5 mm HT L Ø 0.138 in	10.5 (0.413)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245797	Bevel Cartridge Ø 3.8 mm Ø 0.149 in	10.5 (0.413) (68+10) (69+10) (	Hoof Tip with reduced tinned surface, ideal for touch-up	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245951	Bevel Cartridge Ø 3.8 mm HT Ø 0.149 in	10.5 (0.413)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245766	Bevel Cartridge Ø 5 mm Ø 0.197 in	12 (0.472)	Wide area	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245301	Bevel Cartridge Ø 8.8 mm Ø 0.346 in	19.1 (0.751)	Wide area	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245748	Bevel Bent Cartridge Ø 0.6 mm S1 Ø 0.024 in	13 (0.512)	Package 0603 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245749	Bevel Bent Cartridge Ø 0.6 mm S2 Ø 0.024 in	13 (0.512)	Package 0603 Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245965	Spoon Cartridge Ø 1.9 mm Ø 0.075 in	13.5 (0.531)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245067	Spoon Cartridge Ø 2.3 mm Ø 0.091 in	11.5 (0.453) (0.453) (0.453) (0.453)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245931	Spoon Cartridge Ø 2.7 mm Ø 0.106 in	10 (0.394)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245938	Spoon Cartridge Ø 3.8 mm Ø 0.149 in	10.5 (0.413)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245790	Barrel Cartridge Ø 0.8 mm Ø 0.031 in	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Through-hole Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245785	Barrel Cartridge Ø 1.5 mm Ø 0.059 in	(0.157) (8) (8) (8) (8) (8) (8) (8) (8) (8) (8)	Through-hole Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245763	Barrel Cartridge Ø 2.5 mm Ø 0.098 in	(ii) (iii) (	Through-hole Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245760	Barrel Cartridge Ø 3.5 mm Ø 0.138 in	0.0.15 (m)	Through-hole Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245762	Round Connector Cartridge R. 4.5 mm R. 0.177 in	(1.20 × +92 · 0)    R4.5   (1.20 × +92 · 0)   (1.17)   (1	Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245662	Round Connector Cartridge R. 4.5 mm L R. 0.177 in	(0.235) (0.235) (1.200 x 1982 0) (1.200 x 1982 0) (1.200 x 1982 0) (1.200 x 1982 0) (1.200 x 1982 0)	Cable sold/desol	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245789	Knife Cartridge 3.8 x 0.3 mm 0.150 x 0.012 in	10.6 (0.417)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245939	Knife Cartridge 6.0 x 0.4 mm 0.236 x 0.016 in	13.5 (0.531)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245765	Knife Cartridge 6.0 x 0.4 mm S1 0.236 x 0.016 in	13.5 (0.531)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245955	Knife Cartridge 13 x 0.5 mm 0.512 x 0.020 in	16.5 (0.650)	Drag Soldering Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245914	Blade Cartridge 10 mm S1 0.394 in	10 (0.394) (0.394) (in)	Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245752	Blade Cartridge 15 mm 0.591 in	10 (0.394) (0.394) (0.087) (0.087)	Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245913	Blade Cartridge 21 mm 0.827 in	10 (0.394) (0.394) (10 (10 (10) (10) (10) (10) (10) (10)	Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245949	Blade Cartridge 32 mm 1.260 in	10 (0.394) (0.394) (0.394) (0.394) (0.394)	Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245776	Blade Cartridge 37 mm 1.457 in	10 (0.394) (1.800) (1.	Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245792	Blade Cartridge 40 mm 1.575 in	10 (0.394) (0.394) (60.00) (60.00) (60.00) (60.00) (60.00) (60.00) (60.00)	Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245730	Blade Cartridge 10 mm S2 0.394 in	7 (0.276) (1.68.0) (1.68.0) (1.68.0) (1.68.0) (1.68.0) (1.68.0) (1.68.0) (1.68.0)	Pad cleaning Connector desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245728	Multipad Blade Cartridge 10.1 mm 0.398 in	10.1 10.1 10.398) 10.1 10.	Connector sold / desold	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



	Ref.	Description	Image and dimensions	Suggested components	Compatible with
CO.	C245757	Chip Cartridge 1.25 mm 0.049 in	13.5 (0.690) 37 x 25 (0.055) (0.055) (0.055) (0.055)	SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245016	Chip Cartridge 1.9 mm 0.075 in	(6500) (6500)	SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245758	Chip Cartridge 2 mm 0.079 in	14.5 (0.571) (6.0000 × 6.000 ×	SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245658	Chip Cartridge 2.0 mm L 0.078 in	14.5 (0.571) (0.571) (0.098) (0.098) (0.098) (0.098)	SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245017	Chip Cartridge 2.3 mm S1 0.091 in	(8) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245150	Chip Cartridge 2.2 mm S2 0.087 in	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245018	Chip Cartridge 3.4 mm 0.134 in	(LLO Q X 5 PAC Q) (88:10) (88:10) (88:10) (88:10)	SMD resistors SMD capacitors	Stations: CDS, CDES, DI, DDE, DME Tools: T245, T245G, T245P, T245N
	C245019	Chip Cartridge 4.5 mm 0.177 in	2.5 (0.098) 5.5 (0.217) (0.217) (0.217) (0.217)	SMD resistors SMD capacitors	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245754	Drag Cartridge 0.75 mm 0.029 in	3 (0.118) (0.236) (0.236) (0.236)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245654	Drag Cartridge 0.75 mm L 0.029 in	(6,118) (6,118) (6,236) (6,236) (7,118) (6,236) (7,118) (8,210) (7,118) (8,210) (7,118) (7,118) (8,210) (7,118	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245751	Drag Cartridge 1.25 mm 0.049 in	66-8000 66-	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245651	Drag Cartridge 1.25 mm L 0.049 in	3.118) 6.6000 6.0.236) 6.0.236) 6.0.236)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245667	Drag Cartridge 1.25 mm S1 L 0.049 in	3 (0.118) 3 (0.118) 3 (0.472) mm (in)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245669	Drag Cartridge 1.25 mm S2 L 0.049 in	(0.197) (0.197) (0.472) (0.472) (0.472) (0.472)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245796	Drag Cartridge 2.2 x 0.75 mm 0.087 x 0.029 in	(0.236) (0.236) (0.276) (0.276) (0.276)	Drag soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245220	Tunnel Cartridge 5.4 x 6 mm 0.213 x 0.236 in	3 (0.118) 4.5 (0.177) 8820 8620 8620 8620 8620 8620 8620 8620	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245250	Tunnel Cartridge 5.4 x 8 mm 0.213 x 0.315 in	3 (0.118) 4.5 (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177)	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245221	Tunnel Cartridge 5.4 x 10 mm 0.213 x 0.394 in	3 (0.118) 4.5 (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177)	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245303	Tunnel Cartridge 6.5 x 6 mm 0.256 x 0.236 in	3 (0.118) 4.5 (0.1777) (0.2270) (0.228) (0.238	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245222	Tunnel Cartridge 7.1 x 13 mm 0.279 x 0.512 in	3 (0.177) 4.5 (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177)	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245306	Tunnel Cartridge 9.6 x 10 mm 0.378 x 0.394 in	3 (0.118) 4.5 (0.177) (0.378) (0.378) (0.378) (0.378) (0.378) (0.378)	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245305	Tunnel Cartridge 9.6 x 12 mm 0.378 x 0.472 in	3 (0.118) 4.5 (0.177) 988 6 2 (0.177) 10 3 10 10 10 10 10 10 10 10 10 10 10 10 10	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245304	Tunnel Cartridge 9.6 x 15 mm 0.378 x 0.591 in	3 (0.118) 4.5 (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177)	Dual in Line, IC	Stations: CDS, CDES, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245215	Tunnel Cartridge 9.6 x 18 mm 0.378 x 0.709 in	3 (0.118) 4.5 (0.177) 9 (0.177) 9 (0.177) 9 (0.177) 9 (0.177) 9 (0.177) 9 (0.177)	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245226	Tunnel Cartridge 15.2 x 29 mm 0.598 x 1.142 in	3 (0.118) 4.5 (0.177) (0.6669) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177) (0.177)	Dual in Line IC	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245223	QFP Cartridge 8.5 x 8.5 mm 0.335 x 0.335 in	01 5 (0.118) 01 5 (0.118) 01 0 5 (0.1197) 01 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245224	QFP Cartridge 12 x 12 mm 0.472 x 0.472 in	3 (0.118) 5 (0.197) 10 10 10 10 10 10 10 10 10 10 10 10 10	QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245351	QFP Cartridge 12.3 x 12.3 mm 0.484 x 0.484 in	5.5 (0.216) 7.7 (0.303) 9.00 9.00 9.00 9.00 9.00 9.00 9.00 9.0	QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245228	QFP Cartridge 12.4 x 15 mm 0.488 x 0.591 in	66.2 (0.117) 12.4 × (0.256) (0.256) (0.486) mm (in)	QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245315	QFP Cartridge 15 x 15 mm 0.591 x 0.591 in	3.5 (0.138) 6 (0.236) 10 (0.236) 10 (0.236) 10 (0.236)	QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245352	QFP Cartridge 15.4 x 15.4 mm 0.606 x 0.606 in	3.5 (0.391) 5.4 (0.213) 20 21 21 21 21 21 21 21 21 21 21 21 21 21	QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245227	QFP Cartridge 17.5 x 17.5 mm 0.689 x 0.689 in	5.5 (0.217) 7.5 (0.295) 82 8 82 8 83 8 (n)	QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245344	QFP Cartridge 26 x 26 mm 1.024 x 1.024 in	3.5 (0.138) (0.236) (0.236) (0.236) (0.236) (0.236) (0.236)	QFP	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245248	Socket Cartridge 11.9 x 14.4 mm 0.469 x 0.571 in	N. OF CONTACT POSITIONS = 32	PLCC sockets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245247	Socket Cartridge 17 x 17 mm 0.669 x 0.669 in	N. OF CONTACT POSITIONS = 44	PLCC sockets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245053	Heat Staking Cartridge Ø 3.8 mm Ø 0.149 in	3.5 (0.138) 0.9 (0.035) V= 5.5mm <sup>3</sup> V= 5.5mm <sup>3</sup> (in)	Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245052	Heat Staking Cartridge Ø 4.9 mm Ø 0.193 in	4.5 (0.177) VOLUME V = 23mm <sup>3</sup> (682 9 9 9 0 mm (in)	Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245054	Heat Staking Cartridge Ø 6.5 mm Ø 0.256 in	4.5 (0.177) RIVET VOLUME V = 39mm V = 39mm (in)	Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245798	Heat Staking Cartridge Ø 8 mm Ø 0.315 in	7 (0.276) 4 (0.157) VOLUME V = 130mm <sup>3</sup> V = 130mm <sup>3</sup> (in)	Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245791	Heat Staking Cartridge Ø 9.8 mm Ø 0.386 in	7 (0.276) 4 (0.157)  RIVET VOLUME V= 180mm <sup>3</sup> 1 (0.157)  1 (0.157)  1 (0.157)  1 (0.157)  1 (0.157)  1 (0.157)	Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245143	Double Heat Staking Cartridge Ø 1.8 mm Ø 0.071 in	1.2 rover volume v-2mm (m)	Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245163	Hollow Heat Staking Cartridge Ø 2.5 mm Ø 0.098 in	(100 000 000 000 000 000 000 000 000 000	Chrome finish, design for plastic rivets	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245166	Plastics Inox. Cartridge Ø 1.7 mm Ø 0.067 in	9 (0.354) (0.079) (0.079) (0.079) (0.079) (0.079) (0.079) (0.079) (0.079) (0.079)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245167	Thermal Hole-Punch Cartridge for Plastic Ø 2.1 mm Ø 0.083 in	13.5 (0.531)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245168	Thermal Hole-Punch Cartridge for Plastic Ø 3.1 mm Ø 0.122 in	13.5 (0.531)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245688	Heat Staking Bend Cartridge Ø 3.2 mm Ø 0.125 in	9.5 (0.374)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245312	Heat Staking Cartridge Ø 3.2 mm Ø 0.126 in	9.5 (0.374)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245313	Cartridge for Plastics Ø 4.1 mm Ø 0.161 in	9.5 (0.374)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245123	Cartridge for Plastics 4 x 4 mm 0.157 in	12 (0.472) - (0.	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245124	Cartridge for Plastics 4.25 x 2 mm 0.167 x 0.079 in	(c)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245311	Cartridge for Plastics 20 x 6 mm 0.787 x 0.256 in	6 0.256 0.256 0.256 mm (m)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245109	Conformal Coating Removal Cartridge 4.3 x 0.1 mm 0.169 x 0.004 in	12.5 (0.492)	Remove underfill encapsulants	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245138	Cutter Cartridge 12 mm 0.472 in	12 (0.472)	Plastic Rubber cutter	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245121	Cutter Cartridge 13 mm 0.512 in	16 0.629 mm	Plastic Rubber cutter	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245119	Conical Teflon Cartridge Ø 1 mm Ø 0.039 in	10.5 (0.413) (66000) (mm)	Plastics	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245116	Pin/Connector Cartridge R. 1 mm R. 0.039 in	madag D madag	Through-hole Coaxial connector	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245122	Pin/Connector Cartridge 1.5 x 0.5 mm 0.059 x 0.019 in	13.5 (0.531) (6.50 × 650 0) (70 × 650 0) (70 × 650 0)	Cylinder parts	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245764	Fine Pitch Cartridge Ø 0.5 mm Ø 0.019 in	12 (0.472) (61.070) (61.070) (61.070) (61.070) (61.070)	Package 0603 QFP, IC Fine pitch	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N

#### C245 Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245771	Bent Cartridge 1 x 0.1 mm 0.039 x 0.004 in	To the second se	Cable soldering to connector Fine pitch	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245117	Flat Cartridge Ø 1.4 mm Ø 0.055 in	7.1 (0.279) (0	Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245118	Pin/Wire Cartridge 0.4 mm 0.016 in	10 (0.394) (0.394) (0.394) (0.394) (0.394) (0.394) (0.394) (0.394)	Through-hole Wire tinning	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245268	Pin/Wire Cartridge 1.5 mm 0.059 in	S (6.591) mm (in)	Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245136	Micro Stick Switch Cartridge 7.1 x 6.5 mm 0.279 x 0.256 in	Micro Stick Panasonic EVOWH  Base  (in)	Micro Stick desoldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245772	Nickel Cartridge Ø 1.4 x 0.7 mm S1 Ø 0.055 x 0.028 in	10 (0.394) (0.394) (0.394) (0.394) (0.394) (0.394)	HMP Soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245009	S-Lead Cartridge 4.5 x 1.8 mm 0.177 x 0.071 in	9 (L) (0.197) (0.296) (0.197)	Drag Soldering	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245010	J-Lead Cartridge 4.4 x 1.8 mm 0.177 x 0.071 in	8.6 (0.359) (0.359) (0.359) (0.359)	Drag Soldering J-lead	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245SP01	Solder Pot Cartridge 15 x 18 mm 0.591 x 0.709 in	01 (66E 0) (60L 0) (60	Tinning wires, Desoldering and Through-hole Multipin components	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



### C245E Extended Tip Life Cartridge Range

for **T245** General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245736E	Conical Cartridge Ø 1 mm Ø 0.039 in	(0.439) (0.439) (0.439) (0.439)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245159E	Chisel Cartridge 0.8 x 0.4 mm 0.031 x 0.016 in	10.8 (0.425) Pro x 800 00 (0.425)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245158E	Chisel Cartridge 1.2 x 0.4 mm 0.047 x 0.016 in	10.8 (0.425)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245160E	Chisel Cartridge 1.6 x 0.5 mm 0.063 x 0.020 in	10.8 (0.425) (0.425) (0.425) (0.425) (0.425) (0.425) (0.425)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245155E	Chisel Cartridge 2.4 x 0.8 mm 0.094 x 0.031 in	7.4 (0.291) 80 x x 6000) mm (n)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245735E	Chisel Cartridge 2.7 x 1 mm 0.106 x 0.039 in	10.5 (0.413) (	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245161E	Chisel Cartridge 3.2 x 0.8 mm 0.126 x 0.031 in	11 (0.433) 80 x x 20 20 0 7 0 0 (0.433)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



#### C245E Extended Tip Life Cartridge Range for T245 General Purpose Handles

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C245070E	Chisel Cartridge 5 x 1.7 mm 0.197 x 0.067 in	(0.295) (0.295) (0.295) (0.295)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245968E	Chisel Cartridge 6.6 x 1.8 mm 0.260 x 0.071 in	(1.200 x 0.071) (1.700 x 0.071) (in)	General use	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245156E	Bevel Cartridge Ø 2.4 mm Ø 0.094 in	12 (0.472) (mm (in)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245354E	Bevel Cartridge Ø 3.5 mm L Ø 0.138 in	10.5 (0.413)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N
C245157E	Knife Cartridge 7.2 mm 0.283 in	14.9 (0.567)  0.567)  mm (in)	Drag soldering Through-hole	Stations: CDB, CDEB, DI, DDE, DME Tools: T245, T245G, T245P, T245N



C250 Cartridge Range for ALE250 Auto-Feed Iron and AP250 Solder Feed Iron

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Ref.	Description	Image and dimensions	Suggested components	Compatible with
C250420	Conical Bent Cartridge Ø 0.4 mm Ø 0.016 in	9.5 0.374) 0.374) mm	Package 0201, 0402 Fine pitch 0.65 mm QFP, IC	Stations: ALE, CA Tools: ALE250, AP250
C250401	Conical Bent Cartridge Ø 0.6 mm Ø 0.023 in	9.6 0.378) 	Package 0603 QFP, IC	Stations: ALE, CA Tools: ALE250, AP250
C250402	Conical Bent Cartridge Ø 0.8 mm Ø 0.031 in	13 0.512) mm	General use	Stations: ALE, CA Tools: ALE250, AP250
C250403	Conical Bent Cartridge Ø 1 mm Ø 0.039 in	9.7 (0.582) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00) (0.00)	General use	Stations: ALE, CA Tools: ALE250, AP250
C250409	Conical Bent Cartridge Ø 1.7 mm Ø 0.067 in	11 0.433 100 0.433 100 100 100 100 100 100 100 100 100 1	General use	Stations: ALE, CA Tools: ALE250, AP250
C250410	Conical Bent Cartridge Ø 2.2 mm Ø 0.087 in	(0.433) (0.433) (0.433) (0.433) (0.433) (0.433)	General use	Stations: ALE, CA Tools: ALE250, AP250
C250404	Chisel Bent Cartridge 1.2 x 0.7 mm 0.047 x 0.028 in	0.354	General use	Stations: ALE, CA Tools: ALE250, AP250

#### C250 Cartridge Range for ALE250 Auto-Feed Iron and AP250 Solder Feed Iron

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C250405	Chisel Bent Cartridge 1.8 x 0.8 mm 0.071 x 0.032 in	12 0.472) 10.072, 2.08 10.072, 2.08 (in)	General use	Stations: ALE, CA Tools: ALE250, AP250
C250406	Chisel Bent Cartridge 2.2 x 1 mm 0.087 x 0.039 in	0.354) 10.354) 10.354) 10.354) 10.354) 10.354) 10.354) 10.354) 10.354)	General use	Stations: ALE, CA Tools: ALE250, AP250
C250418	Chisel Bent Cartridge 3.2 x 1.5 mm 0.126 x 0.059 in	12 (0.472) (0.	General use	Stations: ALE, CA Tools: ALE250, AP250
C250412	Chisel Bent Cartridge 4.8 x 1.5 mm 0.189 x 0.059 in	12.4 (0.488)	General use	Stations: ALE, CA Tools: ALE250, AP250
C250407	Chisel Cartridge 1.2 x 0.7 mm 0.047 x 0.028 in	Registration of the second of	General use	Stations: ALE, CA Tools: ALE250, AP250
C250408	Chisel Cartridge 2.2 x 1 mm S1 0.087 x 0.039 in	10.2 (R)	General use	Stations: ALE, CA Tools: ALE250, AP250
C250413	Chisel Cartridge 2.2 x 1 mm S2 0.087 x 0.039 in	10 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	General use	Stations: ALE, CA Tools: ALE250, AP250
C250411	Chisel Cartridge 4.8 x 1.5 mm 0.189 x 0.059 in	To a diagram and	General use	Stations: ALE, CA Tools: ALE250, AP250

#### C250 Cartridge Range for ALE250 Auto-Feed Iron and AP250 Solder Feed Iron

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C250426	Bevel Cartridge Ø 1.3 mm Ø 0.051 in	9.5 TAI	Drag soldering Through-hole	Stations: ALE, CA Tools: ALE250, AP250
C250414	Bevel Cartridge Ø 2.2 mm Ø 0.087 in	10 gall	Drag soldering Through-hole	Stations: ALE, CA Tools: ALE250, AP250
C250424	Bevel Cartridge Ø 3 mm Ø 0.118 in	B. S.	Drag soldering Through-hole	Stations: ALE, CA Tools: ALE250, AP250
C250415	Bevel Cartridge Ø 3.8 mm Ø 0.149 in	10.5 (0.413)	Drag soldering Through-hole	Stations: ALE, CA Tools: ALE250, AP250

C420 Cartridge Range for AT420 and HT420 Thermal Tweezers



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C420271	Chip Cartridge 1.5 mm 0.059 in	90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	SMD resistors SMD capacitors	Stations: DI, DDE, DME Tools: AT420, HT420
C420287	Chip Cartridge 2 mm 0.079 in	(6,200) (0,354) (6,200) (0,276) (mm (m)	Customized	Stations: DI, DDE, DME Tools: AT420, HT420
C420272	Chip Cartridge 2.6 mm 0.102 in	90 (0.413) 5 (0.197) mm (in)	SMD resistors SMD capacitors	Stations: DI, DDE, DME Tools: AT420, HT420
C420279	QFP Cartridge 8 mm 0.315 in	8 (0.315) 8.2 (0.322) 8.5 8.5 8.5 8.7 (in)	QFP PLCC	Stations: DI, DDE, DME Tools: AT420, HT420
C420280	QFP Cartridge 11 mm 0.433 in	82 (0.322) mm (in)	QFP PLCC	Stations: DI, DDE, DME Tools: AT420, HT420
C420288	QFP Cartridge 14.5 mm 0.571 in	14.5 (0.571) 5 Fr (0.322)	QFP PLCC	Stations: DI, DDE, DME Tools: AT420, HT420
C420273	Blade Cartridge 4 mm 0.157 in	(iv) (iv) (iv) (iv) (iv) (iv) (iv) (iv)	Package 1210, 1812 SO, SOT DIP	Stations: DI, DDE, DME Tools: AT420, HT420

#### C420 Cartridge Range for AT420 and HT420 Thermal Tweezers

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C420274	Blade Cartridge 6 mm 0.236 in	(i) (ii) (iii) (ii	DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
C420275	Blade Cartridge 8 mm 0.315 in	8 1.2 0 0.0477 0	DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
C420276	Blade Cartridge 10 mm 0.394 in	10 0.394) (0.047)	DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
C420277	Blade Cartridge 15 mm 0.591 in	1.2 (0.5.591)	DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
C420278	Blade Cartridge 20 mm 0.787 in	(a. 7877) (a. 7877) (a. 7877) (a. 7877) (b. 7877) (b. 7877) (c. 78	DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
C420285	Blade Cartridge 22 mm 0.866 in	(0.866) 1.8 (0.077) 1.8 (0.077) 1.8	DIP IC	Stations: DI, DDE, DME Tools: AT420, HT420
C420283	Blade Cartridge 50 mm 1.968 in	(1.968) (0.087) mm (in)	Pad cleaning Connector desoldering	Stations: DI, DDE, DME Tools: AT420, HT420
C420286	"U" Shape Cartridge 15.6 x 14.3 mm 0.614 x 0.563 in	14.3 (0.563) (1.500) (	Customized	Stations: DI, DDE, DME Tools: AT420, HT420

C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

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Ref.	Description	Image and dimensions	Suggested components	Compatible with
C470001	Conical Cartridge Ø 1.7 mm Ø 0.067 in	12 (0.472)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470008	Conical Bent Cartridge Ø 3.5 mm Ø 0.138 in	14.5 (0.571)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470013	Chisel Cartridge 2 x 0.9 mm 0.079 x 0.035 in	13 (0.512) 670 x 2000 mm (in)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470036	Chisel Cartridge 2 x 1 mm 0.079 x 0.039 in	14 (0.551) (6800 x x 82000) mm (in)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470014	Chisel Cartridge 4 x 1.3 mm S1 0.157 x 0.051 in	13 (0.512) (1.80.0.0 × 7.70.10) (1.80.0.0 × 7.70.10) (1.80.0.0 × 7.70.10) (1.80.0.0 × 7.70.10) (1.80.0.0 × 7.70.10)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470040	Chisel Cartridge 4 x 1.3 mm S2 0.157 x 0.051 in	(1.102) (1.102) (1.102) (1.102) (1.102) (1.102) (1.102)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470035	Chisel Cartridge 4 x 2.5 mm 0.157 x 0.098 in	10.5 (0.413) (8800 x x x x x x x x x x x x x x x x x x	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N



#### C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C470017	Chisel Cartridge 5 x 1.2 mm 0.197 x 0.047 in	13 (0.512) (2.17x 0 (2.17x 0 (2.17x 0 (2.17x 0) (2.17x 0	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470009	Chisel Cartridge 5.5 x 1.5 mm 0.216 x 0.059 in	18.4 (0.724) (0.724) (6.500 x x 9.12 to (in))	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470002	Chisel Cartridge 6 x 1.5 mm 0.236 x 0.059 in	10.4 (0.409) (0.409) (0.409) (0.409) (0.409)	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470015	Chisel Cartridge 6 x 1.7 mm 0.236 x 0.067 in	13 (0.512) (0.512) (0.512) (mm (in)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470004	Chisel Cartridge 7.5 x 1.5 mm 0.295 x 0.059 in	10.3 (0.406) (0.500) × \$682.0 (in)	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470016	Chisel Cartridge 7.5 x 1.7 mm 0.295 x 0.067 in	13 (0.512) 13 (0.512) 13 (0.512) 14 (0.512) 15 (0.512)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470058	Chisel Cartridge 8 x 2.5 mm 0.315 x 0.098 in	16.5 (0.650) 16.5 (0.650) 16.5 (0.650) 16.5 (0.650) 16.5 (0.650)	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470039	Chisel Cartridge 8.5 x 2.5 mm 0.335 x 0.098 in	10.4 (0.409) 10.20 x 928 8 92 x 9 28 (in)	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N

#### C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	C470006	Chisel Cartridge 10 x 2.5 mm 0.394 x 0.098 in	10.4 52 x 01. (0.394 x 0.099) (10.409) (10.409) (10.409) (10.409) (10.409)	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470007	Chisel Cartridge 15.5 x 2.5 mm 0.610 x 0.098 in	15 (0.591) (0.591) (0.591) (0.610 × 0.501) (0.610 × 0.501) (0.610 × 0.610) (0.610 × 0.610) (0.	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470021	Chisel Cartridge 12 x 4 mm 0.472 x 0.157 in	19 (0.748) mm (in)	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470067	Chisel Cartridge 15.5 X 2.5 mm 0.610 x 0.098 in	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
	C470022	Chisel Cartridge 28 x 4 mm 1.102 x 0.157 in	15 15 16 17 18 18 18 18 18 18 18 18 18 18	Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470034	Chisel Bent Cartridge 3.5 x 1.5 mm 0.138 x 0.059 in	18 (0.709)   mm (in)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470018	Chisel Bent Cartridge 8.9 x 1.7 mm 0.350 x 0.067 in	23.5 (0.925)	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
8	C470019	Bevel Cartridge Ø 3.5 mm Ø 0.138 in	14 (0.551) (0.551) (0.551) (0.551) (0.551)	General use	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N



#### C470 Cartridges Range for T470 HD Handles and HT470 HD Thermal Tweezers

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C470003	Bevel Cartridge Ø 7.5 mm Ø 0.295 in	(0.394) (0.394) (0.394) (0.394) (0.394) (0.394)	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470056	Bevel Cartridge Ø 10 mm Ø 0.394 in	12 (0.472) (0.472) (mm (in)	Wide area Shield desoldering Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470005	Flat Cartridge Ø 15 mm Ø 0.591 in	4.5 (0.177) (168° 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470044	Flat Cartridge 10 x 15 mm 0.394 x 0.591 in	10.1394 x 0.5391 x 0.5394 x 0.5391 mm (in)	Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470057	Flat Cartridge 20 x 30 mm 0.787 x 1.181 in	Serving (in)	Shield desoldering Metal PCB Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470027	Shield Cartridge 43 x 20 mm 1.693 x 0.787 in	4.4 (0.173) (0.787) mm (in)	Shield desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470031	Pin/Connector Cartridge Ø 3.3 mm Ø 0.126 in	(0.067) (0.067) (0.007) (0.007) (0.007) (0.007) (0.007) (0.007) (0.007) (0.007) (0.007)	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470050	Pin/Connector Cartridge Ø 3.8 mm Ø 0.150 in	(1810) (2.5) (2.6) (0.098) (0.256) (0.256)	Cable Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470

#### C470 Cartridges Range for T470 HD Handles and HT470 HD Thermal Tweezers

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C470042	Pin/Connector Cartridge Ø 4.8 mm Ø 0.189 in	10.5 10.413) 7.5 10.295) (0.	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
C470066	Pin/Connector Cartridge Ø 5.5 mm Ø 0.216 in	13.7 (0.539) (0.539) (0.639) (0.639) (0.639) (0.639) (0.639) (0.639) (0.639) (0.639) (0.639) (0.639) (0.639) (0.639)	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470065	Pin/Connector Cartridge Ø 8.5 mm Ø 0.335 in	12.7 (0.500) (0.500) (0.500) (0.500) (0.500) (0.600) (0.500) (0.500)	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470047	Pin/Connector Cartridge Ø 14 mm Ø 0.551 in	120° (0.551) 12 (0.472) 12 (0.472) 12 (0.472) 12 (0.472) 12 (0.472)	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470012	Pin/Connector Cartridge R. 6 mm S1 R. 0.236 in	22 (0.866) (800 to) (800 to) (	Cables Connectors	Station: HDE TOOIs: T470, T470S, T470F, T470M, T470Z, T470N
C470038	Pin/Connector Cartridge R. 6 mm S2 R. 0.236 in	22 (0.966) TINNED VOI (60 to 0) (60 to 0) (70 236)	Wide area Cables Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470010	Pin/Connector Cartridge R. 8 mm R. 0.315 in	11 (0.433) (6087 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Cables connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470052	Pin/Connector Cartridge R. 8.5 mm R. 0.335 in	14 (0.551) 10 (0.551) 10 (0.394) 8 (0.651) (0.335) (0.335) (0.335) (0.335)	Cables connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N



#### C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C470029	Pin/Connector Cartridge R. 31 mm R. 1.220 in	15.2 (0.598) (0.709) (0.709) (0.709) (0.709) (0.709)	Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470028	Barrel Cartridge Ø 1.2 mm Ø 0.047 in	(u)	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470020	Barrel Cartridge Ø 2.4 mm Ø 0.094 in	35 (1.378) (1.378) (1.378) (1.378) (1.378) (1.378) (1.378)	Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470048	Barrel Cartridge Ø 3.4 mm Ø 0.134 in	Service of the servic	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470033	Barrel Cartridge Ø 3.65 mm Ø 0.144 in	3.66 (0.1741) (0.275 x 0.071) www.	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470055	Barrel Cartridge Ø 4 mm Ø 0.157 in	B <sub>1</sub> 12 (10 VIEW A VIEW B (in)	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470049	Barrel Cartridge Ø 5.2 mm Ø 0.205 in	The state of the s	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470030	Barrel Cartridge Ø 5 mm Ø 0.197 in	6.79.1.8 (0.31.1.0.0.7) (1.5.0.7.1.9	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N

#### C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C470037	Barrel Cartridge Ø 8 mm Ø 0.315 in	818 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470041	Barrel Cartridge Ø 12.5 mm Ø 0.492 in	12.7 (0.500) (0.501) (0.354) (0.354)	Cable Through-hole	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470064	Blade Cartridge 10 mm 0.394 in	12 (0.472) (0.472) (1.662.0)	Pad cleaning Connector desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
C470059	Blade Cartridge 20 mm 0.787 in	20 00000 (C.0000)	Pad cleaning Connector desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
C470023	Blade Cartridge 32 mm 1.260 in	25 U 2500	Pad cleaning Connector desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
C470063	Blade Cartridge 37 mm 1.457 in	37 (0.094) (6.0094) (8.0094)	Pad cleaning Connector desoldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
C470046	Single Flat Cartridge 7.5 mm 0.295 in	10 27 8 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	General use Sheet metal	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N, HT470
C470025	Cartridge for Plastics Ø 1.7 mm Ø 0.067 in	12.3 (0.464)	Plastics	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470026	Cartridge for Plastics Ø 3.5 mm Ø 0.138 in	14.6 (0.575) — — — — — — — — — — — — — — — — — — —	Plastics	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
	C470037         C470041         C470064         C470059         C470023         C470046         C470046	C470041 Barrel Cartridge Ø 8 mm Ø 0.315 in  C470041 Barrel Cartridge Ø 12.5 mm Ø 0.492 in  C470059 Blade Cartridge 10 mm 0.394 in  C470023 Blade Cartridge 20 mm 0.787 in  C470023 32 mm 1.260 in  C470046 Single Flat Cartridge 7.5 mm 0.295 in  C470025 Cartridge for Plastics Ø 1.7 mm Ø 0.067 in	C470037   Barrel Cartridge	C470037 Barrel Cartridge O 8 mm O 0.319 in  C470041 Blanel Cartridge O 12.5 mm O 0.492 in  C470059 Blade Cartridge 10 mm O 787 in  C470059 Blade Cartridge 32 mm O 787 in  C470050 Blade Cartridge 32 mm O 787 in  C470063 Single Flat Cartridge 37 mm O 295 in  C470064 C470065 Single Flat Cartridge O 12.5 mm O 295 in  C470065 Pad cleaning Connector desoldering  Pad cleaning Connector desoldering  Pad cleaning Connector desoldering  Cartridge for Plastics O 1.7 mm O 295 in  C470026 Cartridge for Plastics O 1.7 mm O 0.067 in  Pastics  Pastics

#### C470 Cartridge Range for T470 HD Handles and HT470 HD Thermal Tweezers

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C470032	Cartridge for Plastics Ø 9 mm Ø 0.354 in	24 (0.945)	Plastics	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470043	Groove Cartridge 1.1 x 10 mm 0.043 x 0.394 in	1.9 (0.075) (0	Wire soldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470061	Knife Cartridge 10.6 mm 0.417 in	20.9 (0.823) mm	Drag Soldering	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470051	Blade Split Cartridge 21 mm 0.827 in	(0.236) (0.236) (0.236)	Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470070	Faston Terminal Cartridge 21 mm 0.827 in	7.23 (0.387) (0.453) (0.453) (0.453) (0.453)	Connectors	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470045	Pin Cartridge Ø 3.5 mm Ø 0.138 in	25 (0.984) (68.67 0 0) (68.67 0 0) (69.67 0 0)	Through-hole Male connector	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470011	Hook Cartridge Ø 4.2 mm Ø 0.165 in	\$682.00 (\$\phi 0.165) \frac{\phi 4.2}{(\phi 0.165)}	Difficult to reach	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470SP01	Solder Pot Cartridge 15 x 18 mm 0.591 x 0.709 in	15 (0.59T) (60.70) (60.70) (60.70) (60.70) (60.70)	Tinnig wires Desoldering Through- hole Multipin components	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N
C470SP42	Solder Pot Cartridge 40 x 40 mm 1.575 x 1.575 in	04 04 (1.575) (1.575) (1.575) (1.575) (1.575)	Tinnig wires Desoldering Through- hole Multipin components	Station: HDE Tools: T470, T470S, T470F, T470M, T470Z, T470N

### C360 Tip Range for DS360 Micro Desoldering Iron



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C360001	Micro Desoldering Tip Ø 0.6 mm Ø 0.024 in	$\phi \text{ max. pin} = \frac{0.4}{(0.016)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
C360002	Micro Desoldering Tip Ø 0.8 mm Ø 0.032 in	$\phi$ max. pin = $\frac{0.6}{(0.024)}$ $\frac{mm}{(in)}$	Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
C360003	Micro Desoldering Tip Ø 1 mm Ø 0.039 in	$\phi \text{ max. pin} = \frac{0.8}{(0.032)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
C360004	Micro Desoldering Tip Ø 1.2 mm Ø 0.047 in	$\phi \text{ max. pin} = \frac{1}{(0.039)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
C360007	Micro Desoldering Tip Ø 1.4 mm Ø 0.055 in	$\phi \max. pin = \frac{1.2}{(0.047)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
C360006	Micro Desoldering Tip Ø 1.5 mm Ø 0.059 in	$\phi \text{ max. pin} = \frac{1.3}{(0.051)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
C360011	Micro Desoldering Tip Ø 0.6 mm Pad Ø 0.024 in	The second secon	Pad desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS

#### C360 Tip Range for DS360 Micro Desoldering Iron

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C360012	Micro Desoldering Tip Ø 0.8 mm Pad Ø 0.032 in	all	Pad desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
C360013	Micro Desoldering Tip Ø 1 mm Pad Ø 0.039 in	The second secon	Pad desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS
C360014	Micro Desoldering Tip Ø 1.2 mm Pad Ø 0.047 in	Solo la commanda de l	Pad desoldering	Stations: CS, DI, DDE, DME Tool: DS360 Modules: MSE, MS

C560 Tip Range for DR560 Desoldering Iron



Ref.	Description	Image and dimensions	Suggested components	Compatible with
C560001	Desoldering Tip Ø 0.6 mm HT Ø 0.024 in	$\phi$ max. pin = $\frac{0.4}{(0.016)}$ mm (in)	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560014	Desoldering Tip Ø 0.8 mm Ø 0.032 in	$\phi \max. pin = \frac{0.6}{(0.024)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560002	Desoldering Tip Ø 0.8 mm HT Ø 0.032 in	$\phi \max. pin = \frac{0.6}{(0.024)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560003	Desoldering Tip Ø 1 mm Ø 0.039 in	$\phi \text{ max. pin} = \frac{0.8}{(0.032)} \frac{mm}{(m)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560017	Desoldering Tip Ø 1.1 mm Ø 0.043 in	$\phi \max.pin = \frac{1.0}{(0.039)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560004	Desoldering Tip Ø 1.3 x Ø 3.2 mm Ø 0.052 x Ø 0.126 in	$\phi \max. pin = \frac{1.1}{(0.043)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560009	Desoldering Tip Ø 1.3 x Ø 5 mm Ø 0.052 x Ø 0.197 in	$\phi \text{ max. pin} = \frac{1.1}{(0.043)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS

#### C560 Tip Range for DR560 Desoldering Iron

Ref.	Description	Image and dimensions	Suggested components	Compatible with
C560005	Desoldering Tip Ø 1.5 mm Ø 0.059 in	$\phi \max. pin = \frac{1.3}{(0.051)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560006	Desoldering Tip Ø 1.9 mm Ø 0.075 in	$\phi$ max. pin = $\frac{1.7}{(0.067)}$ $\frac{mm}{(in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560018	Desoldering Tip Ø 2.2 mm Ø 0.087 in	$\phi \text{ max. pin} = \frac{2}{(0.079)} \frac{\text{mm}}{(\text{in})}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560007	Desoldering Tip Ø 2.4 mm Ø 0.095 in	$\phi \text{ max. pin} = \frac{2.2}{(0.087)} \frac{\text{mm}}{\text{(in)}}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560015	Desoldering Tip Ø 3 mm Ø 0.118 in	$\phi \text{ max. } pin = \frac{2.8}{(0.110)} \frac{mm}{(in)}$	Through-hole Desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560011	Desoldering Tip Ø 0.6 mm HT Pad Ø 0.024 in	mm (in)	Pad desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560012	Desoldering Tip Ø 0.8 mm HT Pad Ø 0.032 in	mm (in)	Pad desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS
C560013	Desoldering Tip Ø 1 mm Pad Ø 0.039 in	The state of the s	Pad desoldering	Stations: DI, DDE, DME Tool: DR560 Modules: MSE, MS

#### W140 Blade Cartridge Range for WS140 High-Temperature Precision Wire Stripper Tweezers



Ref.	Description	Image and dimensions	Suggested components	Compatible with
W14014G	Single-Hole Cartridges Solid Wire 14 AWG	STRANDED 16 (7 x 24) AWG SOLID 14 AWG 10.5 (0.413)  STRANDED 16 (7 x 24) AWG  TO THE STREET OF THE S	Wire insulation stripping	Station: WSS Tool: WS140
W14016G	Single-Hole Cartridges Solid Wire 16 AWG	STRANDED 18 (19 x 30) AWG SOLID 16 AWG  10.5 (0.354)	Wire insulation stripping	Station: WSS Tool: WS140
W14018G	Single-Hole Cartridges Solid Wire 18 AWG	20 (42 x 36) AWG STRANDED 20 (19 x 32) AWG 20 (7 x 28) AWG SOLID 18 AWG SOLID 18 AWG (0.354)	Wire insulation stripping	Station: WSS Tool: WS140
W14020G	Single-Hole Cartridges Solid Wire 20 AWG	STRANDED 22 (19 x 34) AWG SOLID 20 AWG  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Wire insulation stripping	Station: WSS Tool: WS140
W14022G	Single-Hole Cartridges Solid Wire 22 AWG	STRANDED 24 (19 x 35) AWG 24 (7 x 32) AWG SOLID 22 AWG  9 (0.354)	Wire insulation stripping	Station: WSS Tool: WS140
W14024G	Single-Hole Cartridges Solid Wire 24 AWG	STRANDED 26 (19 x 38) AWG 26 (19 x 38) AWG SOLID 24 AWG  9 (0.354)  mm (in)	Wire insulation stripping	Station: WSS Tool: WS140
W14026G	Single-Hole Cartridges Solid Wire 26 AWG	STRANDED 28 (19 x 40) AWG 27 (7 x 39) AWG SOLID 26 AWG  9 (0.354)	Wire insulation stripping	Station: WSS Tool: WS140
W14028G	Single-Hole Cartridges Solid Wire 28 AWG	STRANDED 30 (19 x 42) AWG 30 (7 x 39) AWG SOLID 28 AWG (0 0.013) 9 (0 0.054)	Wire insulation stripping	Station: WSS Tool: WS140

W140 Blade Cartridge Range for WS140 High-Temperature Precision Wire Stripper Tweezers

	Ref.	Description	Image and dimensions	Suggested components	Compatible with
	W14030G	Single-Hole Cartridges Solid Wire 30 AWG	STRANDED 32 (19 x 44) AWG SOLID 30 AWG	Wire insulation stripping	Station: WSS Tool: WS140
	W14032G	Single-Hole Cartridges Solid Wire 32 AWG	STRANDED 34 (7 x 42) AWG SOLID 32 AWG	Wire insulation stripping	Station: WSS Tool: WS140
	W14034G	Single-Hole Cartridges Solid Wire 34 AWG	STRANDED   36 (7 x 44) AWG SOLID   34 AWG 0.16 (0.006) 9 (0.354)	Wire insulation stripping	Station: WSS Tool: WS140
	W14036G	Single-Hole Cartridges Solid Wire 36 AWG	SOLID 36 AWG  © 0.13  (© 0.005)  9  (0.354)	Wire insulation stripping	Station: WSS Tool: WS140
	W14037G	Single-Hole Cartridges Solid Wire 37 AWG	SOLIO 37 AWG  0 0.11 (0 0.004)  9 (0.354)	Wire insulation stripping	Station: WSS Tool: WS140
	W14038G	Single-Hole Cartridges Solid Wire 38 AWG	\$0.10 38 AWG \$\tilde{Q} \cdot 0.039 \rightarrow \frac{10}{(\tilde{Q} \cdot 0.039)} \rightarrow \frac{mm}{(\tilde{q} \cdot 0.354)}	Wire insulation stripping	Station: WSS Tool: WS140
	W14040G	Single-Hole Cartridges Solid Wire 40 AWG	\$0.00 40 AWG \$\phi 0.003\) \$\phi 0.003\) \$\phi  \qquad	Wire insulation stripping	Station: WSS Tool: WS140
	W14003F	Flat Cartridges 3 mm	9 (0.354) Policy (in)	Wire insulation stripping	Station: WSS Tool: WS140
	W14005F	Flat Cartridges 5 mm	10.5 (0.413) mm (n)	Wire insulation stripping	Station: WSS Tool: WS140

#### W440 Blade Cartridge Range for WS440 High-Temperature Wire Stripper Tweezers



Ref.	Description	Image and dimensions	Suggested components	Compatible with
W440021	Multi-Hole Cartridges Solid Wire 34 - 22 AWG	AWG mm  34 0.16 30 0.25 28 0.32 26 0.40 24 0.51 22 0.64  15.6 (0.614)  mm (m)	Wire insulation stripping	Station: WSB Tool: WS440
W440023	Multi-Hole Cartridges Solid Wire 26 -16 AWG	AWG mm 26 0.40 24 0.51 22 0.64 20 0.81 18 1.02 16 1.29  15.6 (0.614)  mm (m)	Wire insulation stripping	Station: WSB Tool: WS440
W440025	Flat Cartridges 12.5 mm	FLAT BLADE (0.614) 15.6 (0.614) mm (m)	Wire insulation stripping	Station: WSB Tool: WS440

Notes	Notes





