



- Multi-station that enables soldering, desoldering, and SMD rework all with a single unit
- Supports the N₂ system.

Specifications

Model No. FM203

Power consumption 140W

Temperature range 200-450°C

Temperature stability ±5°C at idle temperature

- Station

Output voltage 24V

Dimensions 120(W)×120(H)×190(D)mm

Weight 2.7kg

- Soldering Iron

Power consumption 70W (24V)

Tip to ground resistance <2Ω

Tip to ground potential <2mV

Heating element Composit heater

Length of cord 1.2m

Total length 188mm (with 2.4D tip)

Weight 30g (with 2.4D tip)

* Length and weight (w/o cord)

Packing List

Model No.
FM-203

Packing List
Station + One Soldering Iron



1. HAKKO FM-203 Station
 2. Soldering iron([HAKKO FM-2027](#))
 3. Control card
 4. Heat resistant pad
 5. Iron holder(No. FH200-01: with HAKKO 599B tip cleaner)
 6. Tip tray
 - *7. Power cord
 - *8. Connecting cable
 - *9. Instruction manual: 1 for each
- * No photos are shown for parts *7 through *9.

* A soldering tip is not included in this product. The tips of desired shape should be purchased separately.

Features

A single station plays multiple roles: Soldering, desoldering, and SMD rework

- ▣ Two handpieces can be selected in various combinations
 - *This station is equipped with one HAKKO FM-2027 handpiece.
- ▣ A wide range of handpiece selection
 - Figures of connectable handpieces are shown on the connectors as well as the indications of "Channel D" and "Channel S".
- ▣ Handpiece combination examples



Simultaneous use

Yes

Channel D



[HAKKO FM-2027](#)

Channel S



[HAKKO FM-2027](#)

No
Either one of
handpieces operates



No
Either one of
handpieces operates



[HAKKO FM-2024^{\(*1\)}](#)

[HAKKO FM-2026^{\(*2\)}](#)

Yes



Yes

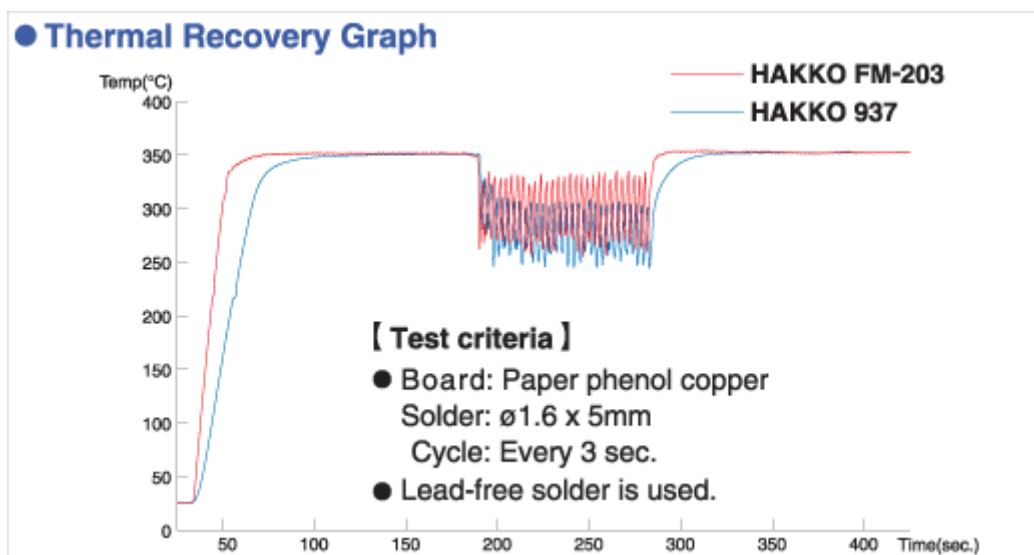


*1 For HAKKO FM-2024, each handpiece needs a desoldering control box and compressor.

*2 For HAKKO FM-2026, each handpiece needs an N2 generator (HAKKO FX-780), flowmeter (HAKKO FX-791), compressor, regulator, etc. For further details, refer to the combination examples.

Powerful thermal recovery performance

- See how much its thermal recovery is improved by using a composite tip

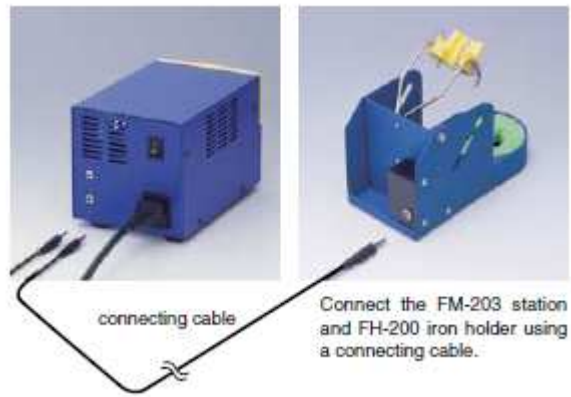


Power save function

- Sleep function

: While the handpiece is being placed on the iron holder (HAKKO FH-200), the sleep function is activated and decreases the temperature of tip on the holder up to approximately 200°C, preventing the tip from being oxidized. In addition, this function can relieve the load applied to the tip due to the high-temperature settings required for lead-free soldering.

- Auto power shut-off function: By connecting the iron holder (HAKKO FH-200) and station with the connecting cable, the auto power shut-off function is activated in the same manner as the sleep function.



- Combined use with an optional handpiece (HAKKO FM-2026, etc.) enables use of the N2 system
- Buzzer ON/OFF setting is available
 - Whether to make the buzzer sound or not when an error occurs or a target temperature is reached is settable.

Replacement Parts

	Part No.	Name	Specifications
	B2756	Tip tray	
	B3216	Sleeve assembly	yellow
	FM2027-02	Connector assembly	
	FH200-01	Iron holder	w/ power-save function
	B3253	Connecting cable	
	B2972	Control card	
	B2300	Heating resistant pad	
	FM2027-01	HAKKO FM-2027 conversion kit	70W (24V)



A1536

Cleaning sponge

green



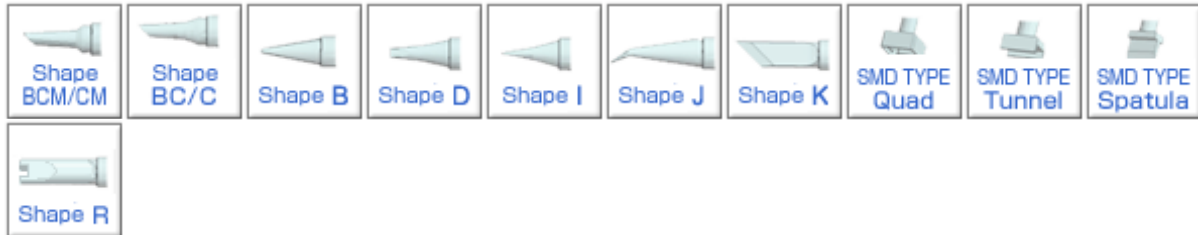
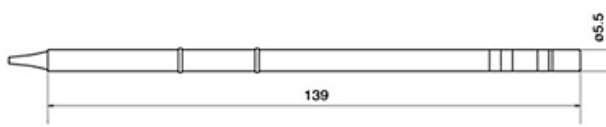
B3215

Connector cover

Option

	Part No.	Name	Specifications
	B3218	Sleeve assembly	blue
	B3219	Sleeve assembly	green
	B3217	Sleeve assembly	orange
	599B-01	HAKKO 599B tip cleaner	
	FM2027-03	HAKKO FM-2027 conversion kit	70W (24V)
	FM2022-05	HAKKO FM-2022 conversion kit	140W (24V), EU
	FM2023-06	HAKKO FM-2023 conversion kit	140W (24V), EU
	FM2024-xx	HAKKO FM-2024 conversion kit	
	FM2026-06	HAKKO FM-2026 conversion kit	70W (24V), EU

T15 széria

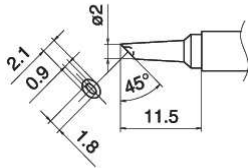


Shape BCM/CM

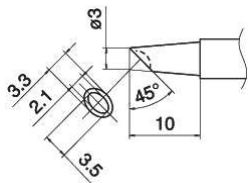
This type differs from Shape BC by the addition of a hollow to its cut face, providing high solder retention capability.

It is used for drag soldering and correction of bridging.

* Shape BCM/CM are not available for sale or use in the U.S.A.



T15-BCM2 Shape-2BC Bevel with indent

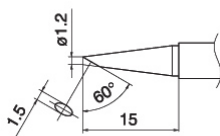


T15-BCM3 Shape-3BC Bevel with indent

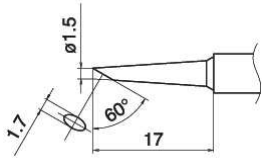
Shape BC/C

This type has a shape like a cone or column cut at a slant, which allows users to select the cut surface size depending on the workpiece.

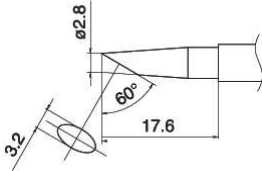
It is used for drag soldering and pre-tinning of lead wires.



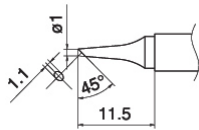
T15-BC12 Shape-1.2BC



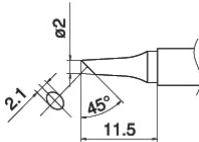
- T15-BC15 Shape-1.5BC



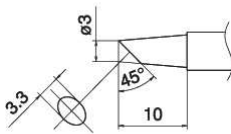
- T15-BC28 Shape-2.8BC



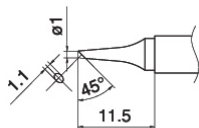
- T15-BC1 Shape-1BC



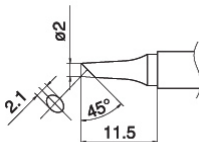
- T15-BC2 Shape-2BC



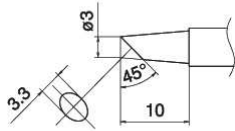
- T15-BC3 Shape-3BC



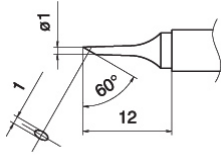
- T15-BCF1 Shape-1BC
Tinned cut surface only



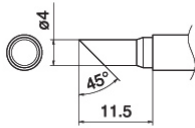
- T15-BCF2 Shape-2BC
Tinned cut surface only



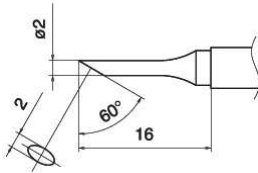
- T15-BCF3 Shape-3BC
Tinned cut surface only



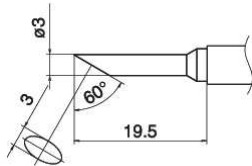
- T15-C1 Shape-1C



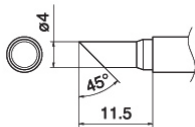
- T15-C4 Shape-4C



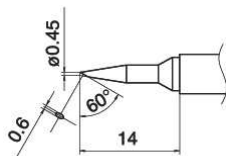
- T15-CF2 Shape-2C



- T15-CF3 Shape-3C



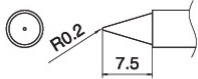
- T15-CF4 Shape-4C
Tinned cut surface only



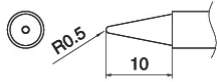
- T15-SBC04 Shape-0.4SBC

Shape B

All-round type which can be used from any direction and is easy to hold at any position.
Possible to solder any surface from small to large.



T15-B Shape-B



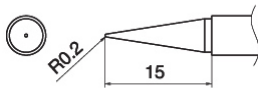
- T15-B2 Shape-0.5B



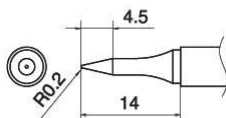
- T15-B3 Shape-0.7B



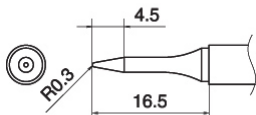
- T15-B4 Shape-0.4B



- T15-BLL Shape-BL Long



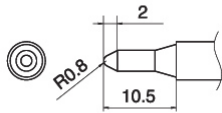
- T15-SB02 Shape-0.2SB



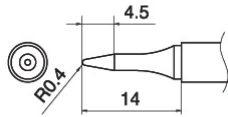
- T15-SB03 Shape-0.3SB



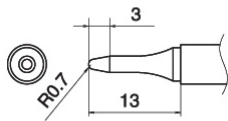
- T15-SB05 Shape-0.5SB



- T15-SB08 Shape-0.8SB



- T15-SBS04 Shape-0.4SBS

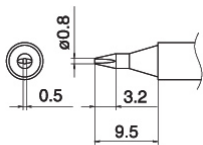


- T15-SBS07 Shape-0.7SBS

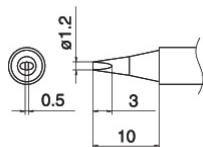
Shape D

This type has a shape like a flat-blade screwdriver and is capable of soldering by applying the tip in 2 ways: line and face.

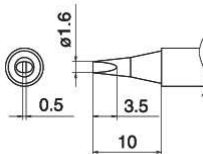
The width (size of tip) suitable for the workpiece can be selected, and it can be used for any soldering work.



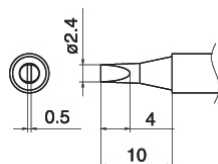
T15-D08 Shape-0.8D



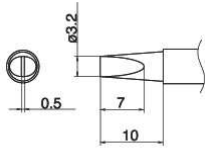
- T15-D12 Shape-1.2D



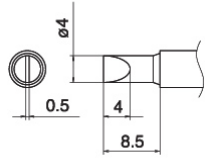
- T15-D16 Shape-1.6D



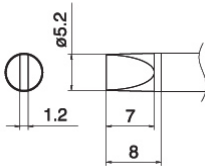
- T15-D24 Shape-2.4D



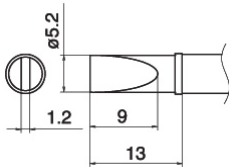
- T15-DL32 Shape-3.2D Long
Just joined as standard tip.



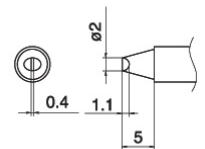
- T15-D4 Shape-4D



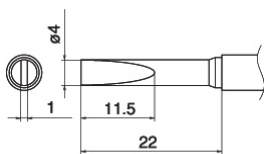
- T15-D52 Shape-5.2D



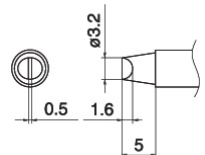
- T15-DL52 Shape-5.2D Long



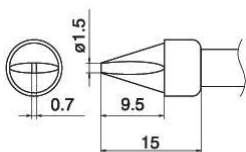
- T15-D2 Shape-2D



- T15-DL4 Shape-4D Long



- T15-D32 Shape-3.2D



- T15-XD15 Shape-1.5XD

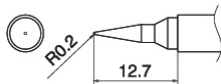
Shape I

This type has a thin conical end and is an ultrafine tip which is best suited for soldering at narrow pitches, etc.

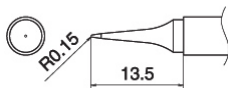
It is the best for soldering micro components such as 0603, etc. and for repairing high-density-mounting P.W.Bs. such as in cellular phones, etc.



T15-I Shape-I



- T15-IL Shape-IL

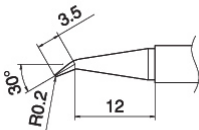


- T15-ILS Shape-ILS

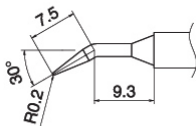
Shape J

This type differs from Shape B and I by bending the tip end and is capable of soldering by applying the tip in 2 ways: face and point.

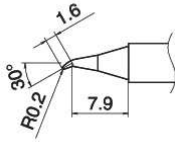
It is used for drag soldering and correction of bridging.



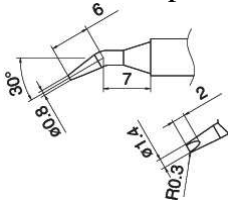
T15-J02 Shape-0.2J (Shape-0.2RSB)



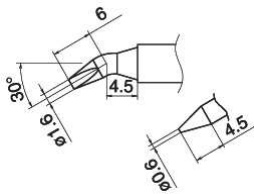
- T15-JL02 Shape-0.2JL (Shape-0.2RLB)



- T15-JS02 Shape-0.2JS (Shape-0.2RSSB)



- T15-JD14 Shape-1.4JD

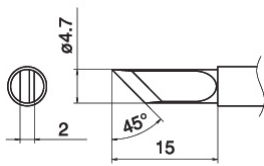


- T15-JD16 Shape-0.6JD

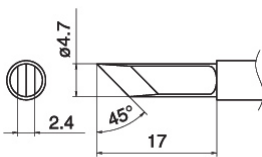
Shape K

This type has a shape like a knife and is capable of soldering by applying the tip in 3 ways: line, face and point.

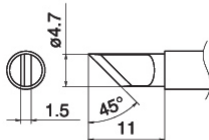
It is used for soldering at narrow pitches, correction of bridging and drag soldering.



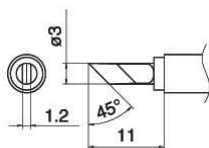
T15-K Shape-K



- T15-KF Shape-KF



- T15-KL Shape-KL
For drag soldering for left-handed.

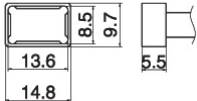


- T15-KU Shape-KU

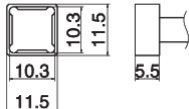
SMD Type : Shape Quad

This type is capable of heating plural pins or lead wires at once and is used for rework of SMDs.

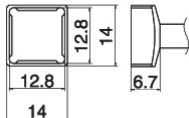
It is used for removal of QFP.



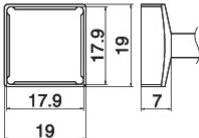
T15-1201 Quad
Size 13.6 x 8.5



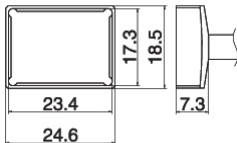
- T15-1202 Quad
Size 10.3 x 10.3



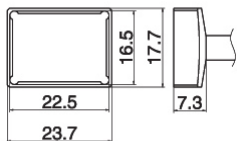
- T15-1203 Quad
Size 12.8 x 12.8



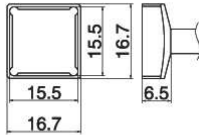
- T15-1204 Quad
Size 17.9 x 17.9



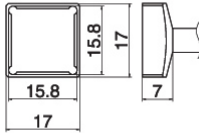
- T15-1205 Quad
Size 23.4 x 17.3



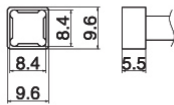
- T15-1206 Quad
Size 22.5 x 16.5



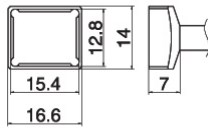
- T15-1207 Quad
Size 15.5 x 15.5



- T15-1208 Quad
Size 15.8 x 15.8



- T15-1209 Quad
Size 8.4 x 8.4

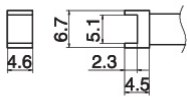


- T15-1210 Quad
Size 15.4 x 12.8

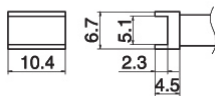
SMD Type : Shape Tunnel

This type is capable of heating plural pins or lead wires at once and is used for rework of SMDs.

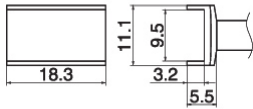
It is used for removal of SOP.



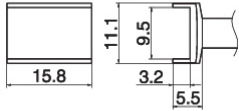
T15-1001 Tunnel
Size 5.1 x 4.6



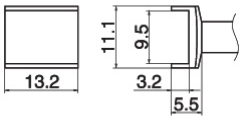
- T15-1002 Tunnel
Size 5.1 x 10.4



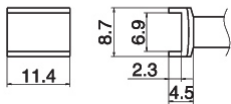
- T15-1003 Tunnel
Size 9.5 x 18.3



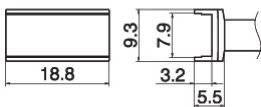
- T15-1004 Tunnel
Size 9.5 x 15.8



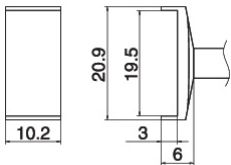
- T15-1005 Tunnel
Size 9.5 x 13.2



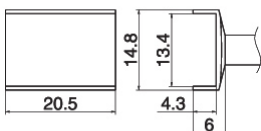
- T15-1006 Tunnel
Size 6.9 x 11.4



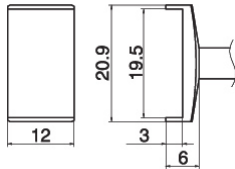
- T15-1007 Tunnel
Size 7.9 x 18.8



- T15-1008 Tunnel
Size 19.5 x 10.2



- T15-1009 Tunnel
Size 13.4 x 20.5

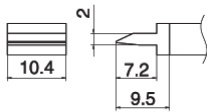


- T15-1010 Tunnel
Size 19.5 x 12

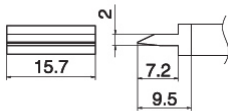
SMD Type : Shape Spatula

This type is capable of heating plural pins or lead wires at once and is used for rework of SMDs.

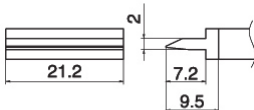
Soldering for thermal compression of flexible P.W.B., shield cases, connector, etc.



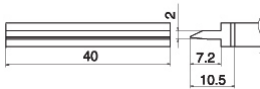
- T15-1401 Spatula
Size 10.4



- T15-1402 Spatula
Size 15.7



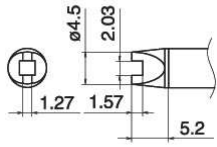
- T15-1403 Spatula
Size 21.2



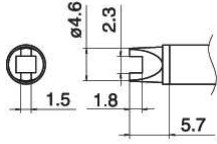
- T15-1406 Spatula
Size 40

Shape R

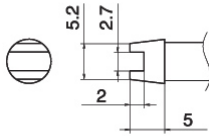
This type has a groove at the tip end.
It is suitable for removing ICs.



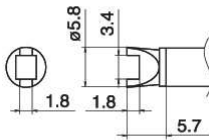
T15-R20 Shape-2.0R



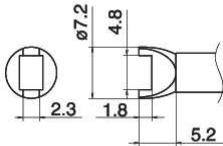
- T15-R23 Shape-2.3R



- T15-R27 Shape-2.7R



- T15-R34 Shape-3.4R



- T15-R48 Shape-4.8R