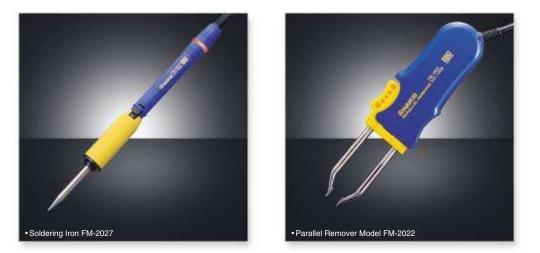


# SOLDERING STATION FM-203

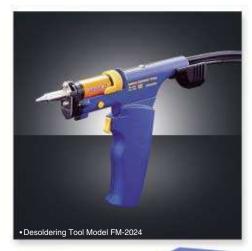
For lead-free soldering



New more-advanced multifunctional station.

Equipped with 2 connection ports to enable a single station to simultaneously play 2 roles.









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# A single station plays multiple roles: Soldering, desoldering and SMD rework. This new station with 2 connection ports allows users to use it more comfortably.



# SOLDERING STATION FM-203 ESD SOLDERING STATION

Station + One Soldering Iron

### Two connection ports

Two soldering irons can be connected at the same time, which allows users to select and use the appropriate one without having to connect them alternatively.

### Powerful thermal recovery

The composite tip provides powerful thermal recovery and stable temperature accuracy.

• Thermal Recovery Graph

## HAKKO FM-203 HAKKO 937 [ Test criteria ] Board: Paper phenol coppe Solder: ø1.6 x 5mm Cycle: Every 3 sed Lead-free solder is used

### Sleep function

After the iron is inserted into the iron holder, the sleep function activates for a user-settable time (0 to 29 min.) and the tip temperature will decrease to approximately 200°C.

### Auto power shut-off function

When 30 minutes have elapsed after inserting the iron into the iron holder, the auto power shut-off function activates and stops to apply power to the heating element.

### Soldering

### HAKOFM-2027 歸

Soldering Iron



### Lightweight grip provides fatiqueless work even for extended iobs. •Four colored sleeves are provided. Using color-coding for tip shape enables convenient work. The lock-type sleeve enables it to be firmly secured.



### N<sub>2</sub> system

 Example setup FM-2026 N2 soldering iron FX-780 N2 generator FX-791 N2 station (N2 airflow meter)

ur further details refer to the N2 system brochure

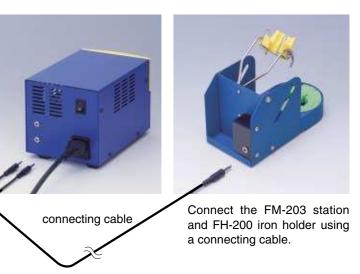


Desoldering Greatly improved workabi-HAKO MODEL ESD FM-2024 SAFE lity **Desoldering Tool** Small ergonomic-style grip and light weight provides fatiqueless work. New design prevents clogging New design with reduced distance between the nozzle and end and filter pipe prevents clogging by sucked-up solder. Easy maintenance Uses disposable paper filter pipes. Allows paper and solder to be disposed of separately. Quick nozzle replacement. Nozzle can be replaced safely with the provided nozzle remover. Safe design Equipped with a nozzle lock function. Inserting a nozzle into the grip automatically locks it in place and prevents the nozzle cartridge from be-DCB (Desoldering Control Box) ing pulled out suddenly. \*Before using the FM-2024 unit, connect Selectable grip

### it to the desoldering control box and compressor

Detachable handle allows two-way use: gun type or straight type.

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\*It is necessary to change unit settings before using sleep and auto power shut-off functions

### **Combination examples of** handpieces which can be connected.

Since all handpieces cannot be connected to each connector port, refer to the following table.



		•	•
Handpiece		Channel D connector	Channel S connector
FM-2027		0	0
FM-2022	*1	0	×
FM-2023	*1	0	×
FM-2024	*2	0	0
FM-2026	*3	0	0

- \*1 If the FM-2022 or the FM-2023 handpiece is connected to the channel D connector the other handpiece connected to the channel S connect tor can be used with it at the same time. If either handpiece is used, the non-used handpiece will be automatically subject to sleep mode.
- \*2 If two FM-2024 handpieces are connected to both channel connectors connect each of them to the desolder control box
- \*3 The N2 generator and N2 airflow meter must be connected before using the FM-2026.

Fur further details, refer to the N2 system brochure

### List of Specifications and Example Setups



# 

Station + One Soldering Iron \*Tip is an optional part.

### • HAKKO FM-203 Power Consumption 140W

Temperature Range	200 to 450°C
Temperature Accuracy	±5°C at idle temperature
Station	

Station		
Output	24V	
Dimensions	120(W) x 120(H) x 190(D)mm	
Weight	2.7kg	

#### HAKKO FM-2027 Soldering Iron

Power Consumption	70W (24V)
Tip to Ground Resistance	< 2Ω
Tip to Ground Potential	< 2mV
Total Length (w/o cord)	188mm with 2.4D tip
Weight (w/o cord)	30g with 2.4D tip
Cord	1.2m

\*The temperature was measured using the HAKKO FG-101 thermometer.



### Packing List

(1) Tip tray-
② Iron holder (No.FH200-02) ·······
3 HAKKO FM-203 station
HAKKO FM-2027 soldering iron
-
5 Control card
6 Heat resistant pad
⑦ Power cord (not shown in the photo)
(8) Connecting cable (not shown in the photo)
*Tip is an optional part.

### Soldering

### 

Soldering Iron \*Tip is an optional part.

#### Specifications Power Consumption 70W (24V) Tip to Ground Resistance $< 2\Omega$ Tip to Ground Potential < 2mV Total Length (w/o cord) 188mm with 2.4D tip Weight (w/o cord) 30g with 2.4D tip 1.2m Cord

#### No.FM2027-03 Conversion kit



(1) Connecting cable1
②HAKKO FH-200 iron holder1
3 HAKKO 599B tip cleaner1
(②+③: No.FH200-02)
④HAKKO FM-2027 soldering iron1
5 Heat resistant pad1
*Tip is an optional part.

## SMD rework

### 

**Parallel Remover** \*Tip is an optional part.

#### Specifications

Power Consumption	140W (24V)
Temperature Range	200-400°C
Tip to Ground Resistance	< 2Ω
Tip to Ground Potential	< 2mV
Total Length (w/o cord)	148mm with SOP 25L tip
Weight (w/o cord)	64g with SOP 25L tip
Cord	1.2m

#### No.FM2022-04 Conversion kit



### Packing List

①Connecting cable1
2 HAKKO FH-200 iron holder1
3 Cleaning sponge1
(2+3: No.FH200-03)
Model FM-2022 parallel remover1
5 Heat resistant pad1
*Tip is an optional part.

### MODEL FM-2023 SAFE **Mini Parallel Remover** \*Tips(shape-I) are originally attached

Specifications

140W (24V)
200-400°C
< 2Ω
< 2mV
117mm with I tip
37g with I tip
1.2m
T9-I (Shape-I)

#### No.FM2023-04 Conversion kit



### Packing List

①Connecting cable1
②HAKKO FH-200 iron holder 1
3 Cleaning sponge1
(2+3: No.FH200-04)
Model FM-2023 mini parallel remover1
5 Tips (No.T9-I/2pcs of set)1
6 Heat resistant pad1
⑦Component bed1

# **Desoldering Tool** \*Nozzle is an optional pa

Power Consum Temperature Ra Tip to Ground Pote Tip to Ground Resis Total Length (w/o Weight (w/o co Cord

#### Desolder Control Box Power Consum

Output Vacuum Gener Vacuum Pressure Suction Flow Tip to Ground Pot

#### Applied Air Pres Compressed Air Consu

Dimension Weight (w/o cord &

further information.

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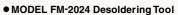
•	•	
Part No.	Name/Description	Applicable
B3216	Sleeve assembly, yellow	FM-2027
B3218	Sleeve assembly, blue	FM-2027
B3217	Sleeve assembly, orange	FM-2027
B3219	Sleeve assembly, green	FM-2027
599B-02	Tip cleaner	FH-200
B3253	Connecting cable	FM-203, FH-200
A1514	Ceramic paper filter / 10pcs	FM-2024
A1512	Front holder	FM-2024
A1511	Filter pipe assembly	FM-2024
B2756	Tip tray	FM-2027



**Tip Tray** \*Tips are no included.







	•
ption	70W (24V)
ange	350-450°C
tential	< 2mV
stance	< 2Ω
cord)	180mm with ø1.0 nozzle
ord)	65g with ø1.0 nozzle
	1.2m

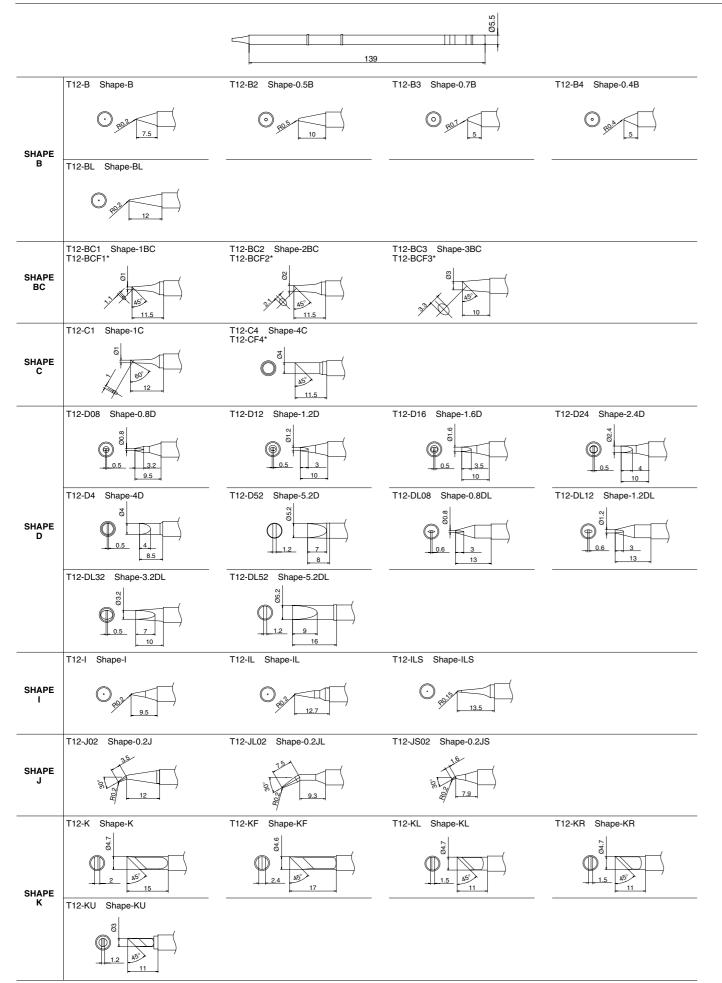
ption	12W
	24V
rator	Ejector type
(max.)	93kPa (700mmHg)
	28L/min.
tential	< 2mV
ssure	490kPa (5.0kgf/cm2) when in use
	(trigger or button is pressed)
umption	1.62 c.f.m. (46L/min.)
	119(W) x 45(H) x 172(D)mm
hose)	1.2kg

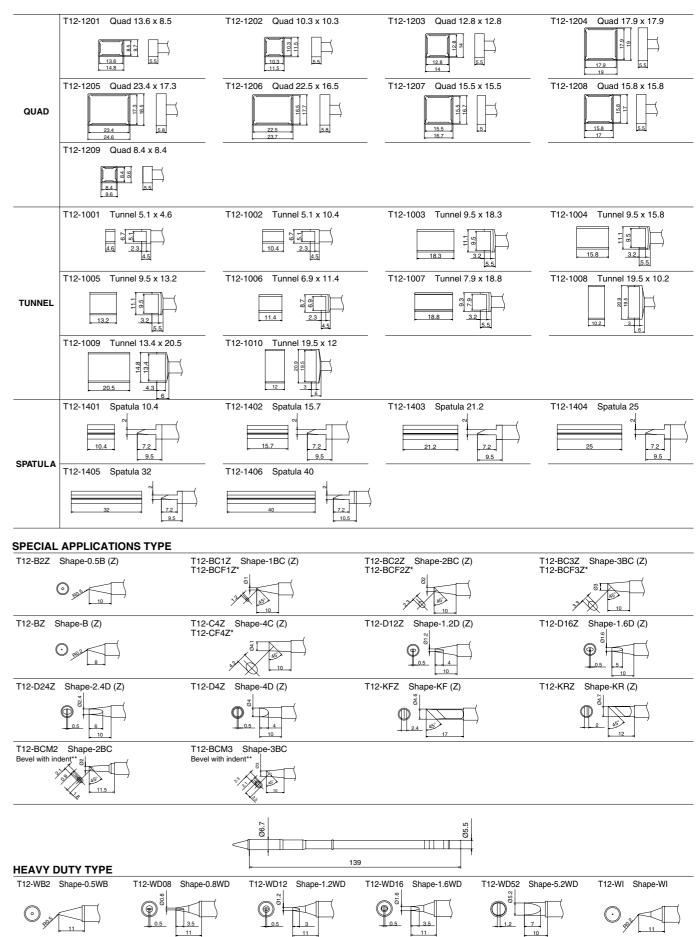
For smooth setup, we recommend to order "Conversion kit" as shown by the photo. The part number of "Conversion kit" varies from the input voltage. Please contact with the nearest representative for the

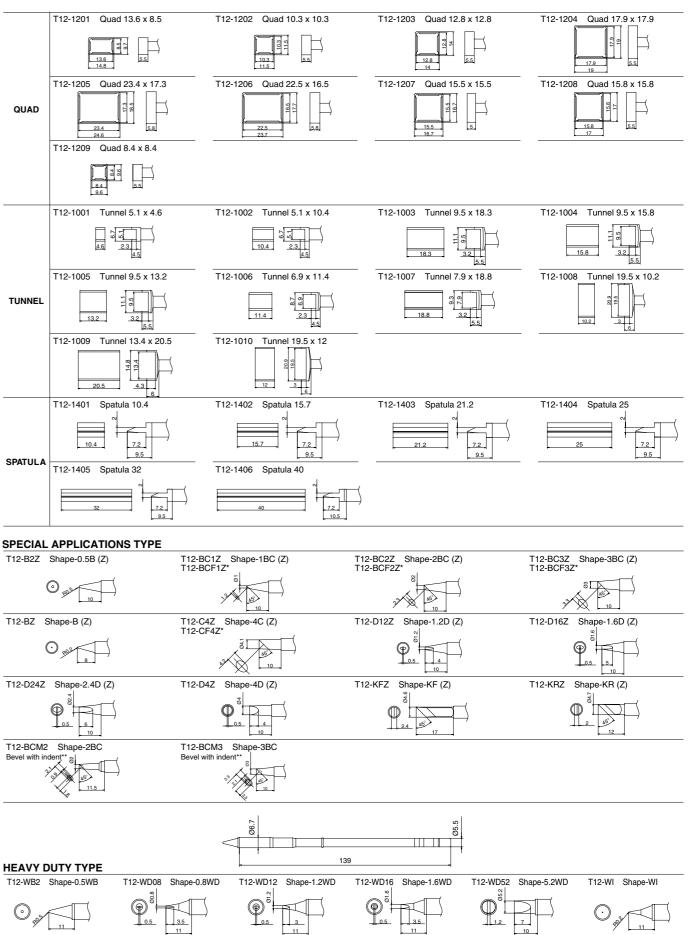


#### Packing List

### T12 series For HAKKO FM-2027





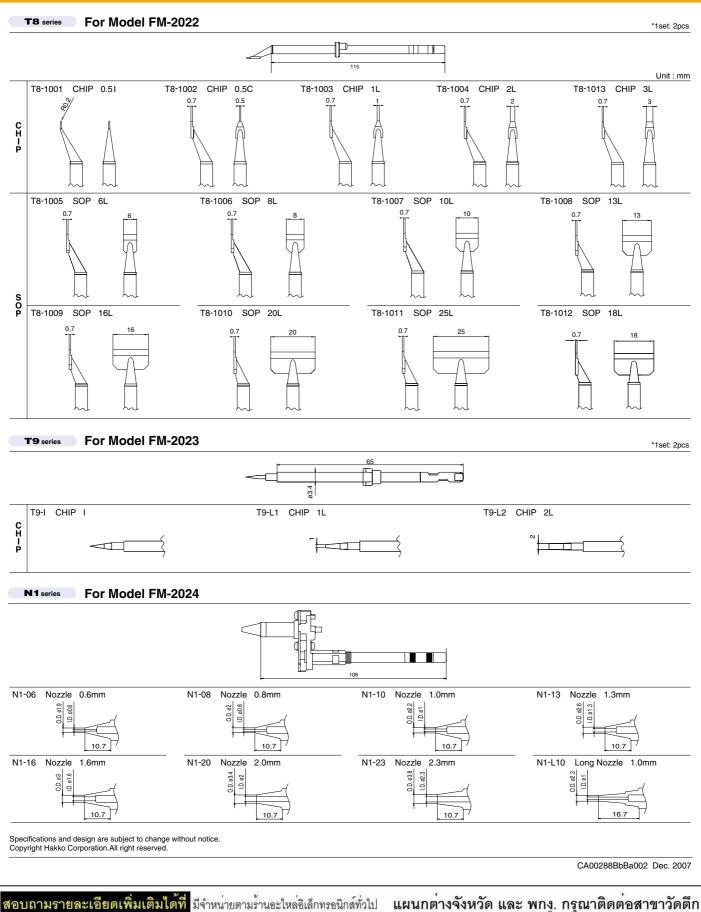


\* Tinned on the soldering surface only. \*\*The part numbers T12-BCM2 and T12-BCM3 are not available for sale or use in the U.S.A.

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Unit : mm

### **Replacement Tips and Nozzles**



### บริษัท สหรุ่งโรจน์ (ประเทศไทย) จำกัด

 1034 ถนนเจริญนคร แขวงบางลำภูลาง เขตคลองสาน กรุงเทพฯ 10600

 โทร. (02) 438-7783 (อัตโนมัติ)
 แฟ็กซ์. (02) 438-4166, 862-6740

 http://www.srt.co.th
 E-mail. srtcoltd@anet.net.th

 srthe02@truemail.co.th

 แผนกตางจังหวัด และ พกง. กรุณาติดตอสาขาวัดตีก
 โทร. (02) 225-7076 แฟ็กซ์. (02) 225-2979
 สาขาวัดตึก 67,69,71,73 ถนนจักรวรรดิ์ แขวง/เขตสัมพันธวงศ์
 กรุงเทพฯ 10100
 โทร. (02) 225-7070 (อัตโนมัติ), 622-7311-5
 แฟ็กซ์. (02) 225-2979, 222-0052
 E-mail. srtcoltd@anet.net.th srtwt02@truemail.co.th