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Power

Efficiency

Stability

Accuracy

Control



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Power



Accuracy



Efficiency

# Hakko Warriors



| Control

| Stability

## Soldering

HAKKO FX-100 RF Induction Heating Soldering System .....	1-2
HAKKO T31 Series Tips .....	3
HAKKO FM-2032 Micro Soldering Iron .....	4
HAKKO FM-206 3 Port Rework System .....	5-6
HAKKO FM-203 Soldering System .....	7
HAKKO FX-951 Soldering Station .....	8
HAKKO T15 Series Tips .....	9-13
HAKKO T18 Series Soldering Tips .....	14
HAKKO T22 Series Soldering Tips FM-2030 & FM-2031 Soldering Irons.....	15
HAKKO FX-801 HD Soldering Station & T33 Tips.....	16
Accessories for FX-951, FM-203, FM-206 & FM-204 .....	17-18
HAKKO FX-888D Soldering Station .....	19
HAKKO FX-889 Dual Port Soldering Station .....	20
HAKKO Nitrogen Soldering System .....	21
HAKKO FX-780 & FX-781 N2 Generators & HAKKO FX-901 Soldering Iron .....	22
Hakko FX-600 Soldering Iron.....	23
Hakko FX-650 Soldering Iron & HAKKO T34 Series Soldering Tips .....	24
HAKKO 373 Soldering Self Feeder.....	25
HAKKO 599B & FT-710 Tip Cleaners & FT-700 Tip Polisher.....	26
HAKKO FX-301B & FX-300 Soldering Pots .....	27
HAKKO 485 Soldering System .....	28

## Desoldering

HAKKO FM-204 Desoldering Station.....	29
HAKKO FM-205 Desoldering Station.....	30
HAKKO FM-2024 Desoldering Module.....	31
HAKKO FR-410 Desoldering Tool .....	32
HAKKO FR-4101 & FR-4102 Desoldering Tools .....	33
HAKKO FR-400 HD Desoldering Station .....	34
HAKKO FR-300 Desoldering Tool .....	35
FM-2022 SMD Parallel Remover & FM-2023 SMD Mini Hot Tweezers .....	36

## Rework

HAKKO FR-811 SMD Hot Air Rework Station .....	37-38
HAKKO FR-810B SMD Hot Air Rework Station .....	39-40
HAKKO FR Series Acc., Boom Stand, 394 & FM-2029 Replacement Nozzles .....	41
HAKKO Hot Air & BGA Nozzles.....	42-44
HAKKO FR-872 4-Bank IR Preheater & FR-870B 2-Bank IR Preheater .....	45
FR-860 Preheat Plate & HAKKO FR-830 Preheater .....	46
HAKKO FR-1418 BGA Rework System .....	47-48
HAKKO FX-8804 Hot Tweezer .....	49
HAKKO 851 SMD Rework Station .....	50

## Fume Extraction

HAKKO Purpose of Fume Extraction & HAKKO Fume Extraction Filters .....	51
HAKKO FA-400 Smoke Absorber.....	52
HAKKO FA-430 Fume Extraction System .....	53
HAKKO Fume Extraction Duct Sets.....	54
HAKKO Loc-Line® Kit .....	55
HAKKO FA-430 & HJ3100 Accessories .....	56

## Accessories

HAKKO FG-100 Thermometer .....	57
HAKKO FG-101 Soldering Tester .....	58
HAKKO FT-801 Thermal Wire Stripper & FT-8003 Knife Blade.....	59
Hakko 611 Reel Stand & HJ5000 Heat Gun .....	60
HAKKO Iron Holders .....	61
HAKKO 498 System Tester & Dip Liner .....	62



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U.S. Patent number D703,715.



## SPECIFICATIONS

<b>Part No.</b>	FX100-04
<b>Voltage</b>	120 V
<b>Power Consumption</b>	85 W

### Station

<b>Temperature Stability</b>	±1.1°C (±2.0°F)
<b>Output Power</b>	50 W
<b>Output Frequency</b>	13.56 MHz
<b>Weight (w/o cord)</b>	3 Kg (6.6 lb.)
<b>Outer Dimensions (W x H x D)</b>	127 x 150 x 167 mm (5.0 x 5.9 x 6.6 in.)

### FX1001-01 Handpiece

<b>Tip to ground resistance</b>	<2 Ω
<b>Tip to ground potential</b>	<2 mV
<b>Length of Cord</b>	1.3 m/4.3 ft
<b>Total Length (w/o cord)</b>	193 mm (7.6 in.) w/T31-01D24 tip 190 mm (7.5 in.) w/T31-02D24 tip
<b>Weight (w/o cord)</b>	31 g (0.07 lb.) w/T31-02D24 tip

## CONTENTS

Part No.	Description
N/A	Station
FX1001-51	Handpiece
FH800-51BY	Iron Holder
B5007	Heat Resistant Sleeve - Green color
B5008	Heat Resistant Sleeve - Gray color
B2300	Heat Resistant Pad
B2419	Power Cord/3wired Cord & American Plug
N/A	Instruction Manual

## Features and Benefits

- User selectable Power Activity Display providing constant dynamic feedback to the operator about the thermal load on the soldering iron tip
- T31 Series Tip Cartridges provide HAKKO's renowned tip life with greater power
- Password Lockout prevents unauthorized system setup changes
- Tip Sleep function reduces tip temperature to preserve tip life and reduce oxidation when the iron is not in use
- Large Backlit Display provides a clear and simple interface with the operator
- User Programmable Profiles for tip and solder selection
- Activity Monitor provides cumulative data on tip heater loads and tip running time to aid in process control and managing operating costs
- Auto-Power Off safety feature
- Compact case design minimizes the workbench footprint
- Slender, lightweight, and ergonomically designed handpiece with burn resistant cord allowing for excellent operator dexterity
- Meets or exceeds requirements under IPC J-STD-001, ANSI ESD S20.20 and older MIL-STDs



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## The Hakko FX-100 Soldering System

The FX-100 soldering system brings RF induction heat soldering technology to an even higher performance level. This small, compact station includes microprocessor control that boosts the recovery performance of the soldering iron tip and an Advanced System Design that optimizes performance by reducing the loss of power in the system while maintaining the lowest EMI levels to meet applicable standards, especially for work with sensitive devices.

# FX-100

RF Induction Heating Soldering Station



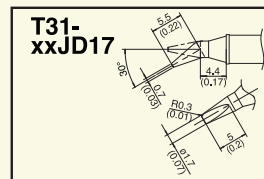
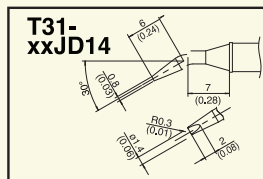
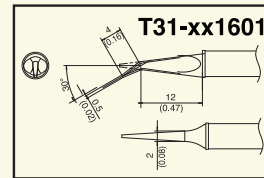
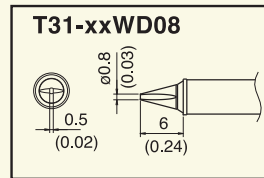
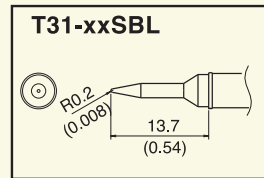
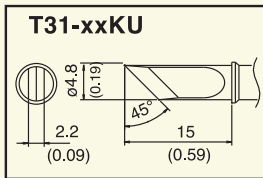
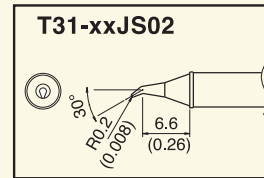
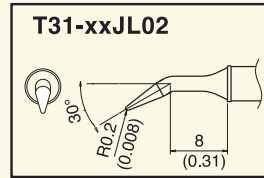
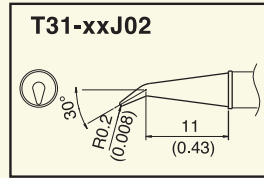
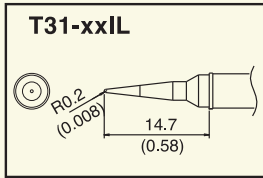
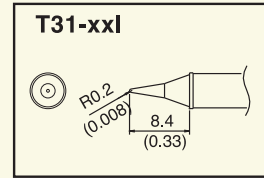
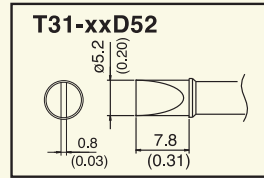
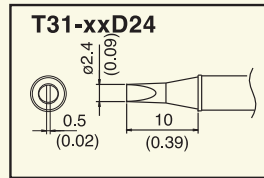
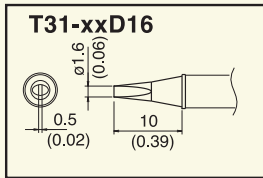
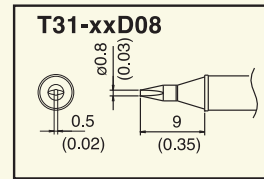
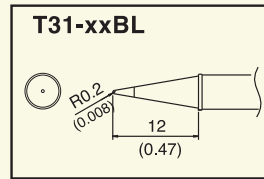
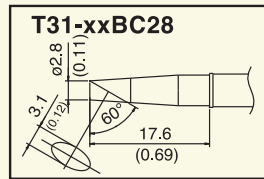
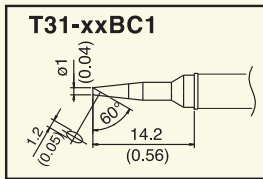
The system is simple to operate  
– just plug it in and turn it on.  
No calibration required.

Soldering



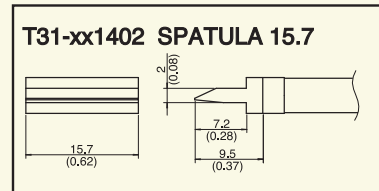
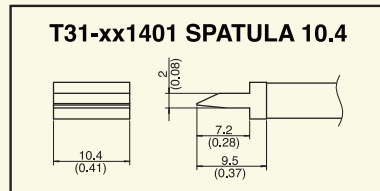
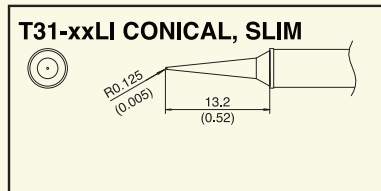
# HAKKO T31 Series Tips

FOR Hakko FX-100 RF Induction Heating Soldering Station



UNIT: mm (inch)  
 xx = 00 = 895°F / 480°C  
 xx = 01 = 840°F / 450°C  
 xx = 02 = 750°F / 400°C  
 xx = 03 = 660°F / 350°C

Not all tips available in every temperature series.





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# FM-2032

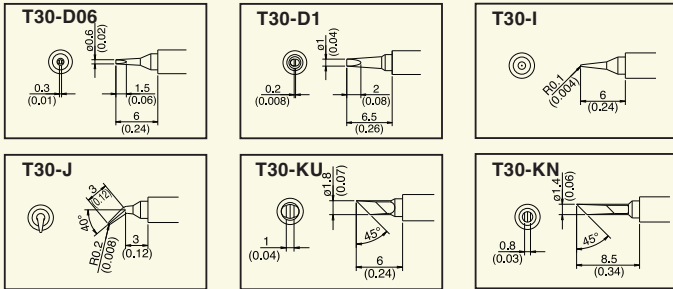
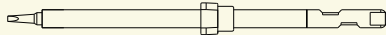
Micro Soldering Iron

Soldering

The FM-2032 micro soldering iron extends precision micro soldering capabilities to a variety of HAKKO soldering and rework systems. The slender, lightweight hand-piece has a tip-to-grip distance optimized for operator dexterity under microscopes and magnifiers while preserving the control one expects when working with 0201 components and smaller. The new T30 Series Composite Micro Tips have geometries engineered for optimal heat transfer and the ability to reach into some of the tightest spots on a board.

### Features and Benefits

- Thin, burn resistant iron cord
- Quick-change T30 Series tips
- Cool running grip even when operating at 450°C for extended periods
- HAKKO renowned tip life and performance
- ESD Safe design



UNIT: mm (inch)

### SPECIFICATIONS

Part No.	FM2032-52 Conversion Kit
Voltage	24 V
Power Consumption	48 W
Temperature Range	200°C ~ 450°C (400°F - 840°F)
Tip to Ground Resistance	<2 Ω
Tip to Ground Potential	<2 mV
Tips	Uses T30 Series Tips (not included)
Length of Cord	1.3 m (4.3 ft)
Total Length (w/o cord)	170 mm (6.7 in.) w/T30-D1
Weight (w/o cord)	14 g (0.03 lb.) w/T30-D1



ACTUAL SIZE

U.S. Patent number D739,696.

### CONTENTS

Part No.	Description
FM2032-51	Handpiece Only
B3253	Connecting Cable
FH200-51	Iron Holder
B2300	Heat Resistant Pad
N/A	Instruction Manual (English, Japanese, Chinese)



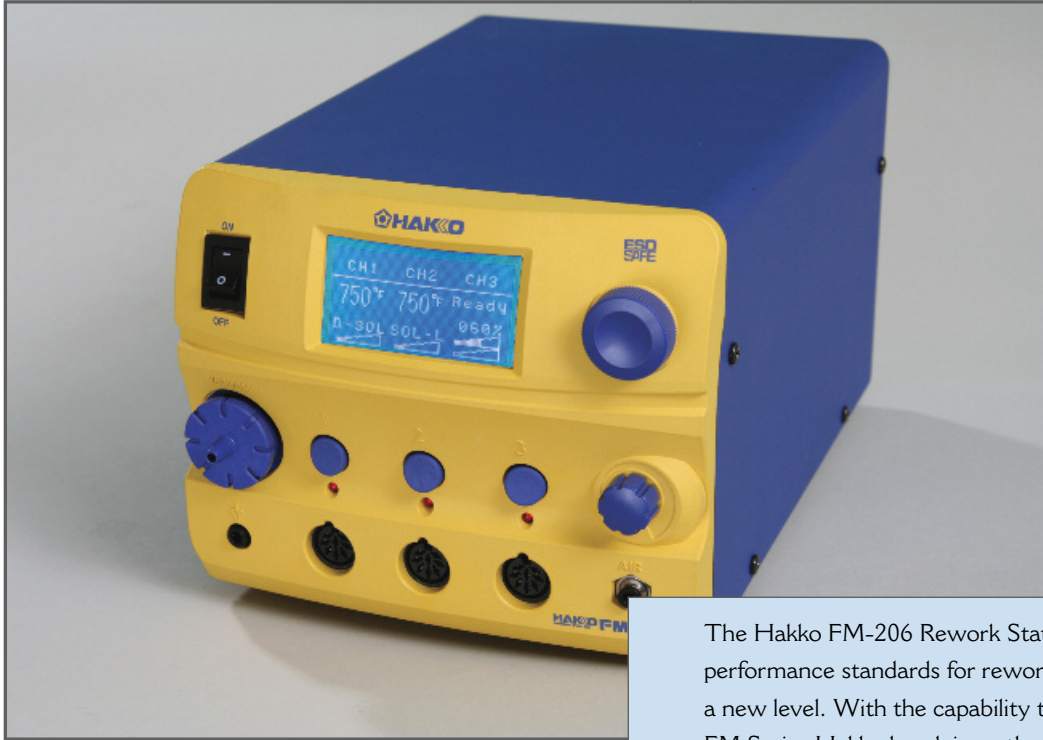
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Soldering



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U.S. Patent number D656,525.



# FM-206

## 3 PORT REWORK STATION

### Features and Benefits

- Graphic User Interface for easy setup and operation
- 3 simultaneously powered ports
- Self contained pump for vacuum and air flow
- Meets or exceeds J-STD-001 requirements
- Password lockout for process control
- Digital airflow indicator
- Can be configured in many ways using all FM Series handpieces
- Sleek compact design minimizes loss of bench space
- High performance hot air handpiece ramps to max temperature in under 20 seconds and maintains heating
- Integrates with Hakko FR-830, FR-870B, and FR-872 Preheaters
- Manual or automatic profile for hot air
- Low cost composite hot air nozzles
- Optional foot switch for pump operation
- Security attachment point
- Quiet pump operation
- Desoldering delay timer
- Configurable display in °C or °F
- Capable of hot air rework of 0201 and 01005
- No calibration required
- ESD Safe by design

The Hakko FM-206 Rework Station raises performance standards for rework systems to a new level. With the capability to power any FM Series Hakko handpiece, the Hakko FM-206 can be tailored to fit your specific rework needs. The sleek compact design minimizes loss of bench space, and the full graphic user interface simplifies setup and operation. Powerful ports allow for the use of the Hakko FM-2029 Single Hot Air handpiece, or simultaneous use of the Hakko FM-2030 Heavy Duty Soldering Iron, making this the ultimate rework station.

### SPECIFICATIONS

<b>Part Number</b>	<b>FM206-55 (Base Unit)</b>
<b>Power Consumption</b>	410 W (Max) / 120 VAC
<b>Temperature Stability</b>	±5°C / ±9°F
<b>Dimensions</b>	162 (W) x 136 (H) x 245 (D) mm (6.38 x 6.38 x 7.48 in.)
<b>Weight</b>	6.2 Kg (13.7 lb.)
<b>Air Flow</b>	6 L/min. Max.
<b>Vacuum Generator</b>	Diaphragm Pump System
<b>Vacuum Pressure (Max.)</b>	80 kPa (600 mmHg)
<b>Suction Flow</b>	14 L/min.

### HANDPIECE CONFIGURATION

Part No.	Port 1	Port 2	Port 3
<b>FM206-DSS</b>	FM-2024	FM-2027	FM-2027
<b>FM206-DTS</b>	FM-2024	FM-2022	FM-2027
<b>FM206-STA</b>	FM-2027	FM-2022	FM-2029
<b>FM206-DSA</b>	FM-2024	FM-2027	FM-2029

Handpiece	Temperature Range	Power Consumption	Tip to Ground Resistance/Potential	Total Length (w/o cord)	Weight (w/o cord)	Length of Cord	Tips/Nozzles
<b>FM-2027 Soldering Iron</b> 	200-450°C/400-840°F	70 W/24 V	<2Ω/<2 mV	188 mm (7.4 in.) (w/tip shape-2,4D)	30 g (1.07 oz.) (w/T15-D24)	1.2 m (4 ft.)	T15 Series  Not Included
<b>FM-2026 N<sub>2</sub> Soldering Iron</b> 	200-450°C/400-840°F	70 W/24 V	<2Ω/<2 mV	205 mm (8.1 in.) (w/tip shape-2,4D)	45 g (1.6 oz.) (w/T17-D24)	1.2 m (4 ft.)	T17 Series  Not Included
<b>FM-2022 Parallel Remover</b> 	200-400°C/400-750°F	140 W/24 V	<2Ω/<2 mV	110 mm (4.3 in.) (w/o tip)	53 g (1.9 oz.) (w/o tip)	1.2 m (4 ft.)	T16 Series  Not Included
<b>FM-2023 Mini Hot Tweezer</b> 	200-400°C/400-750°F	140 W/24 V	<2Ω/<2 mV	75 mm (3.0 in.) (w/o tip)	32 g (1.1 oz.) (w/o tip)	1.2 m (4 ft.)	T9 Series  Includes T9-I
<b>FM-2024 Desoldering Tool</b> 	350-450°C/660-840°F	70 W/24 V	<2Ω/<2 mV	180 mm (7.09 in.) (w/o 1.0mm nozzle)	65 g (2.29 oz.) (w/o 1.0mm nozzle)	1.2 m (4 ft.)	N3 Nozzles  Not Included
<b>FM-2029 Hot Air Handpiece</b> 	100-550°C/200-1030°F	140 W/24 V	N/A	167 mm (6.6 in.) (w/o nozzle)	42 g (1.48 oz.) (w/o nozzle)	1.2 m (4 ft.)	N4 Nozzles  Not Included
<b>FM-2030 HD Soldering Iron</b> 	200-500°C/400-930°F	140 W/24 V	<2Ω/<2 mV	224 mm (8.8 in.) (w/o cord)	41 g (1.4 oz.) (w/o cord)	1.3 m (4.3 ft.)	T22 Series Tips  Not Included
<b>FM-2031 HD N<sub>2</sub> Soldering Iron</b> 	200-500°C/400-930°F	140 W/24 V	<2Ω/<2 mV	231 mm (9.1 in.) (w/o cord)	47 g (1.7 oz.) (w/o cord)	1.3 m (4.3 ft.)	T22 Series Tips  Not Included
<b>FM-2032 Micro Iron</b> 	200-450°C/400-840°F	48 W/24 V	<2Ω/<2 mV	170 mm (6.7 in.) (w/o cord) (w/T30-D1)	14 g (0.49 oz.) (w/o cord) (w/T30-D1)	1.3 m (4.3 ft.)	T30 Series Tips  Not Included



The Hakko FM-203 brings more soldering functionality to your workbench while delivering the heat you need to the soldering area FAST. Select any soldering temperature you want without changing the tip—one tip, any soldering temperature. ESD Safe.

# FM-203

## SOLDERING STATION

### SPECIFICATIONS

#### FM-203 SOLDERING STATION

Power Consumption	140 W (120 V)
Temperature Range	200°C - 450°C (400°F - 840°F)
Temperature Stability	±5°C (±9°F) at idle temperature
Station Output	24 V
Dimensions	120 (W) x 120 (H) x 190 (D) mm (4.72 x 4.71 x 7.50 in.)
Weight	2.7kg (5.9 lbs.)

#### FM-2027 Soldering Iron

Power Consumption	70 W (24 V)
Tip to ground resistance	< 2 Ω
Tip to ground potential	< 2 mV
Total Length (w/o cord)	188 mm (7.4 in.) with T15-D24 tip
Weight (w/o cord)	30g (1.07 oz.) with T15-D24 tip
Length of Cord	1.2 m (4 ft.)
Tips	T15 Series Tips

### CONTENTS

Part No.	Description
FM203-01	FM-203 soldering station Green sleeve assembly (P/N: B3219) Connector (P/N: FM2027-02) Iron holder with 599B tip cleaner (P/N: FH200-01) Key card (P/N: B2972) Heat pad (P/N: B2300) Tip tray (P/N: B2756) Connector cord (P/N: B3253) Power cord (P/N: B2419)

Tips and Nozzles NOT included

### Features and Benefits

- Dual soldering iron ports
- Excellent thermal recovery
- Meets or exceeds J-STD-001 requirements
- Low temperature alarm
- Auto power shutoff after lapse of 30 minutes
- Lock Out key card prevents unauthorized or accidental temperature settings
- Composite tips—heating element and sensor are integrated with ceramic
- Locking sleeve assembly (grip)
- No calibration required
- Optional “Sleep Mode” functionality with iron holder (P/N: FH200-01)
- **Placing the iron into the iron holder activates the sleep mode**
- Adjustable “sleep mode” settings (0-29 minutes)
- Adjustable iron holder angle

#### NOTE:

P/N: **FM203-01** ships with one (1) FM-2027 soldering handpiece.  
P/N: **FM203-DP** ships with two (2) FM-2027 soldering handpieces.  
P/N: **FM203-HD** ships with one (1) FM-2030 soldering handpiece.

### FM-203 Available Accessories

For additional FM-203 accessories please see pages 17-18.



The Hakko FG-100 Thermometer



FM-2030 HD Soldering Iron



FM-2032 Micro Iron



FM-203 Back Sleep Ports



FM-2024 - Page 31 Desoldering Tools



FM203-DP



FM-2027 Soldering Irons

Bring a new design to your workbench with the stylish Hakko FX-951 soldering station. The FX-951 delivers the same superior heat transfer and thermal recovery as the FM-203 and uses the same quick-change composite tips as the FM-203.

### Features and Benefits

- Compact, space-saving design
- Meets or exceeds J-STD-001 requirements
- Excellent thermal recovery
- Lock Out key card prevents unauthorized or accidental temperature settings
- Low temperature alarm
- Composite tips—heating element and sensor are integrated with ceramic
- Locking sleeve assembly (grip)
- Optional “Sleep Mode” functionality with iron holder (P/N: FH200-01)
- **Placing the iron into the iron holder activates the sleep mode**
- Adjustable “sleep mode” settings (0-29 minutes)
- Auto power shutoff after lapse of 30 minutes
- Adjustable iron holder angle

### FX-951 Available Accessories



FM-2026  
N<sub>2</sub> Soldering Iron



FM-2032 Micro Iron



The Hakko FG-100  
Thermometer



U.S. Patent number D530,349.



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# FX-951

## SOLDERING STATION

### SPECIFICATIONS

#### FX-951 SOLDERING STATION

Power Consumption	75 W (120 V)
Temperature Range	200°C - 450°C (400°F - 840°F)
Temperature Stability	±5°C (±9°F) at idle temperature
Station Output	24 V
Dimensions	80 (W) x 130 (H) x 131 (D) mm (3.15 x 5.12 x 5.16 in.)
Weight	1.2kg (2.65lbs.)

#### FM-2027 Handpiece

Power Consumption	70 W (24 V)
Tip to ground resistance	< 2 Ω
Tip to ground potential	< 2 mV
Length (w/o cord)	188 mm (7.4 in.) with T15-D24
Weight (w/o cord)	30g (1.07 oz.) with T15-D24
Length of Cord	1.2 m (4 ft.)
Tips	T15 Series Tips

### CONTENTS

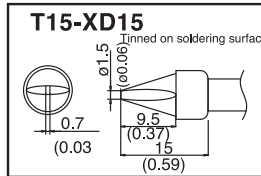
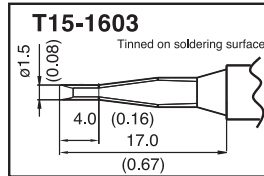
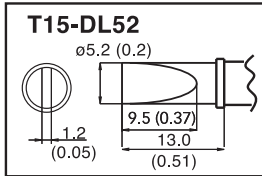
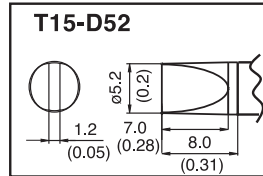
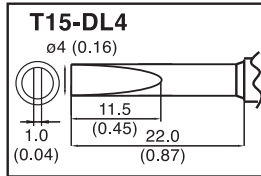
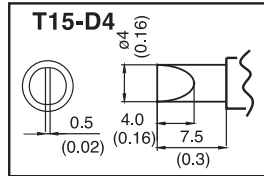
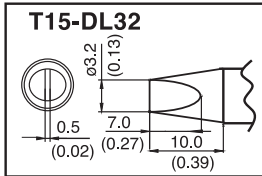
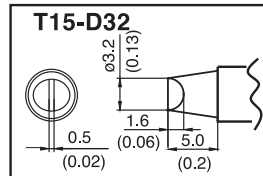
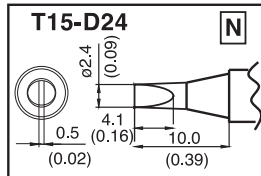
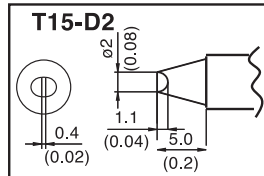
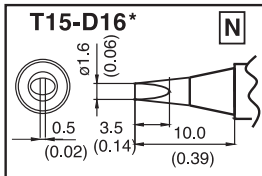
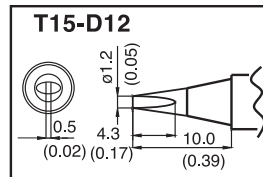
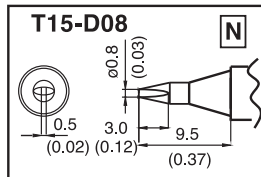
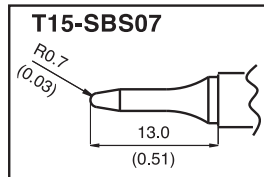
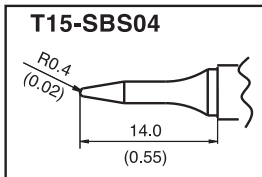
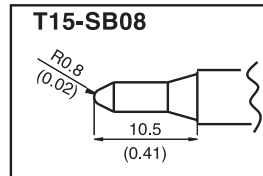
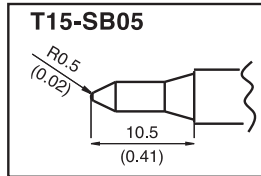
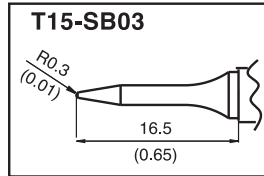
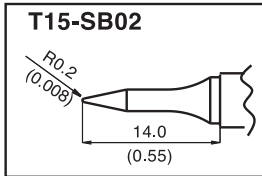
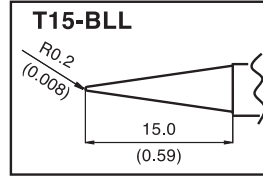
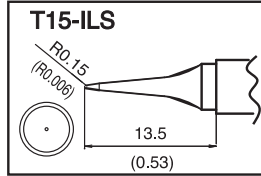
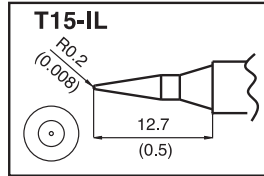
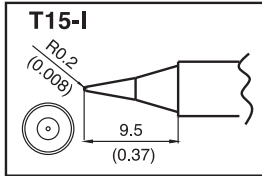
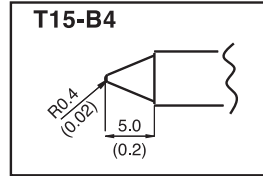
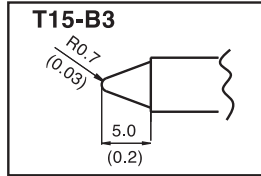
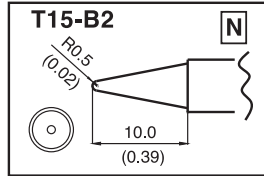
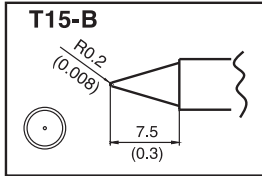
Part No.	Description
FX951-66	FX-951 soldering station Green sleeve assembly (P/N: B3219) Connector (P/N: FM2027-02) Iron holder with 599B tip cleaner (P/N: FH200-01) Key card (P/N: B2972) Heat resistant pad (P/N: B2300) Tip tray (P/N: B2756) Connector cord (P/N: B3253) Power cord (P/N: B2419)

*Tips and Nozzles NOT included*



# T15 SERIES TIPS

FOR FM-203, FM-204, FM-205, FX-951 and FM-206 STATIONS



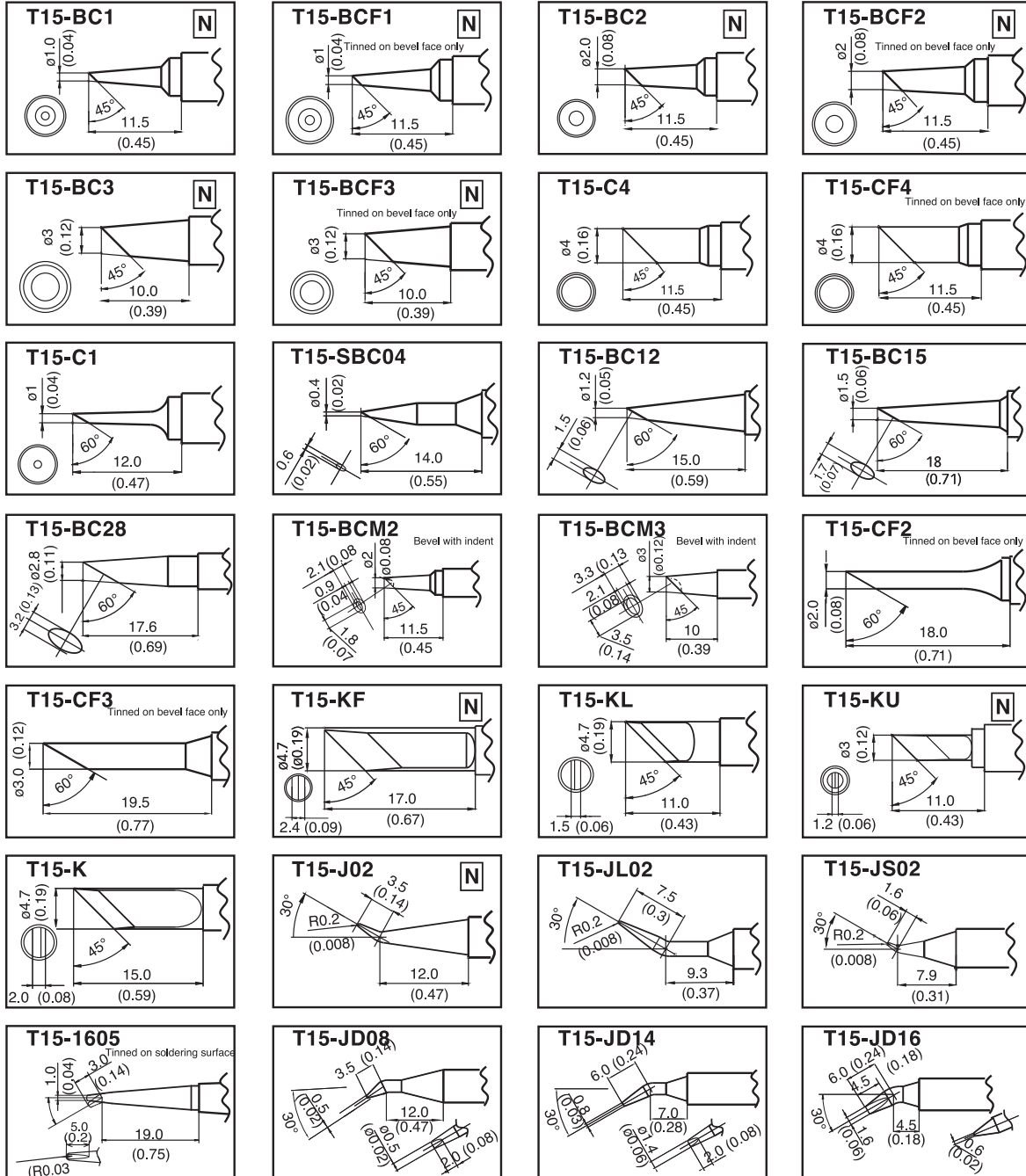
UNIT: mm (inch)

N T17 tips and nozzles can be used with the Nitrogen Soldering System (see page 21).

\*T15-D16 available in pure nickel construction as T15-1608 for soldering with specialized alloys

# T15 SERIES TIPS

FOR FM-203, FM-204, FM-205, FX-951 and FM-206 STATIONS



UNIT: mm (inch)

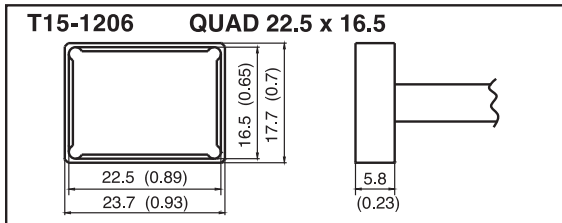
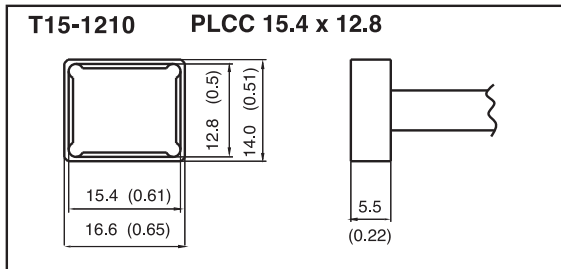
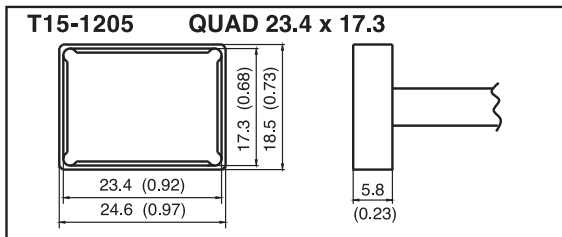
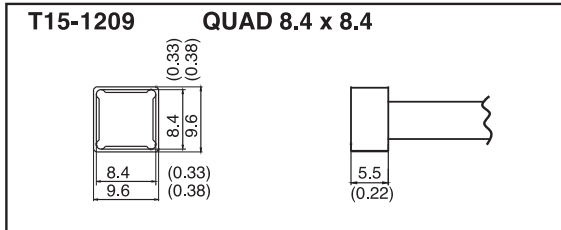
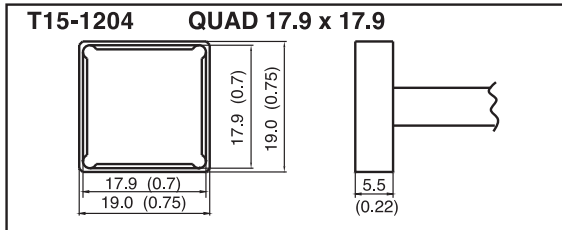
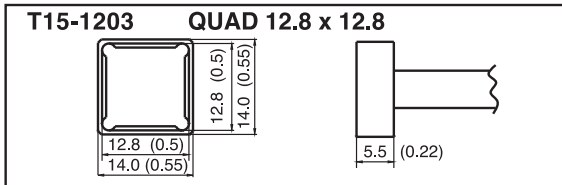
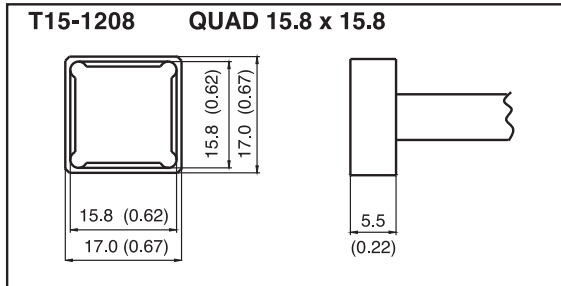
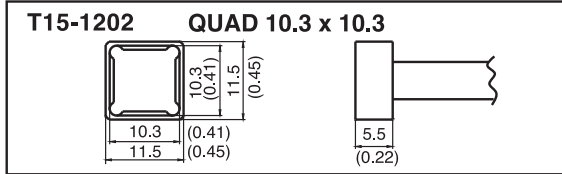
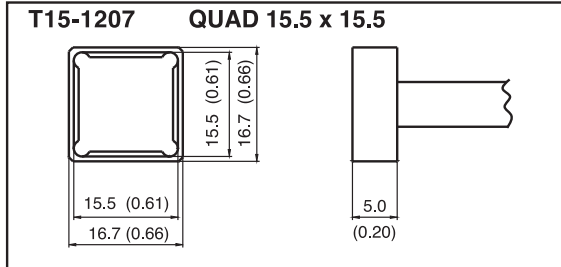
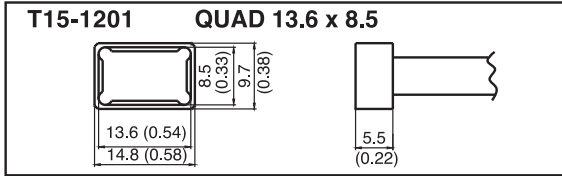
**N** T17 tips and nozzles can be used with the Nitrogen Soldering System (see page 21).





# T15 SERIES TIPS

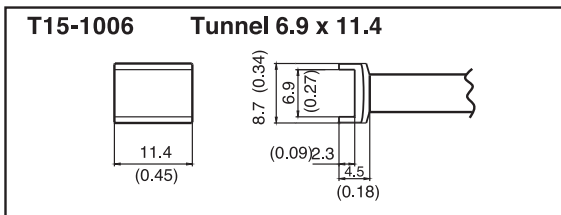
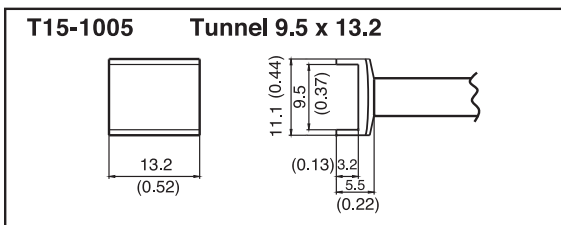
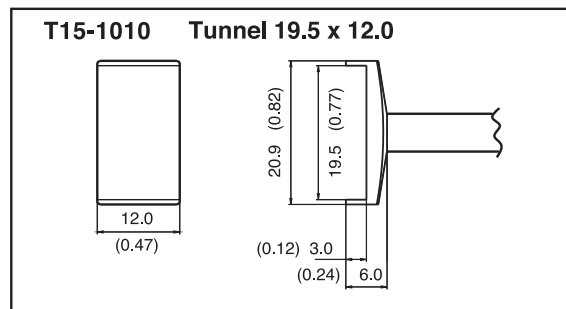
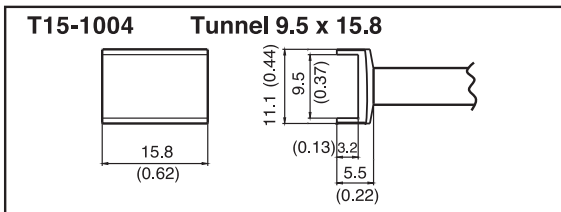
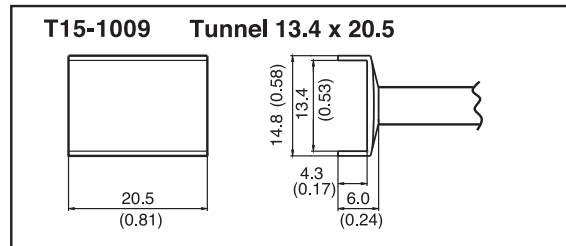
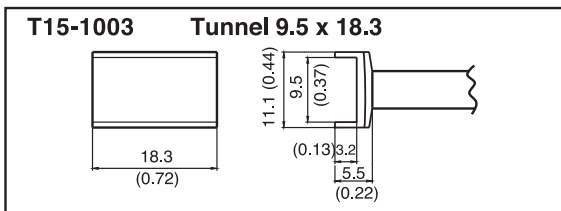
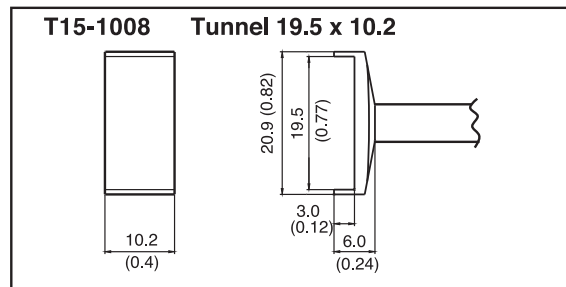
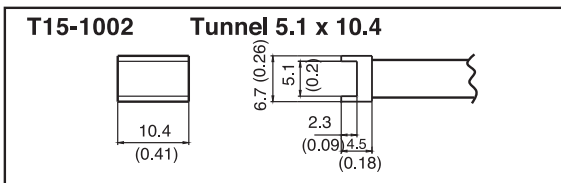
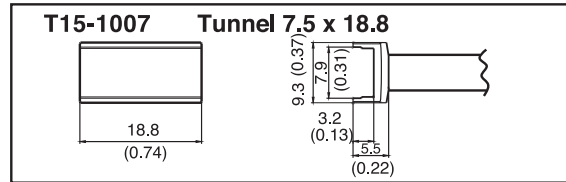
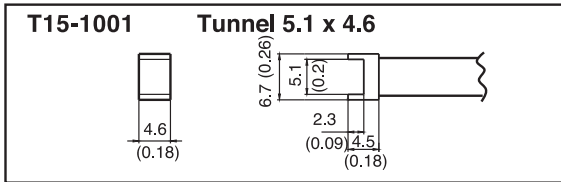
FOR FM-203, FM-204, FM-205, FX-951 and FM-206 STATIONS



UNIT: mm (inch)

# T15 SERIES TIPS

FOR FM-203, FM-204, FM-205, FX-951 and FM-206 STATIONS

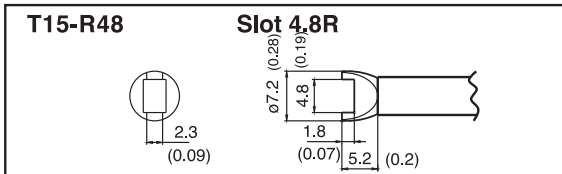
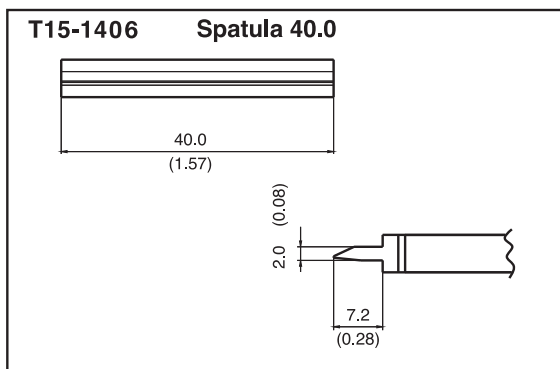
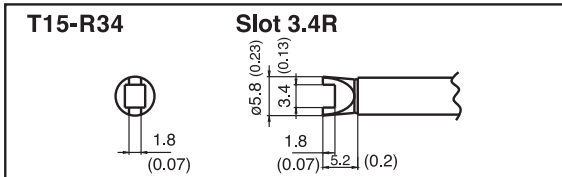
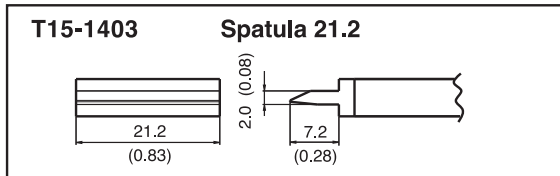
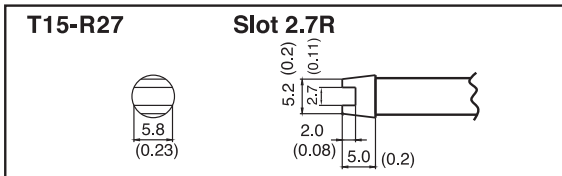
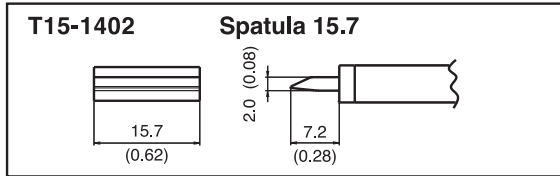
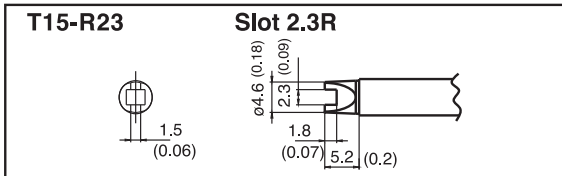
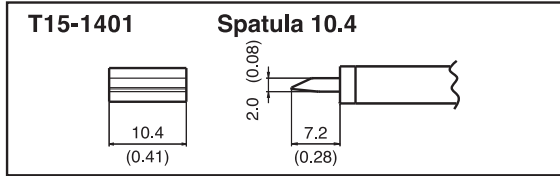
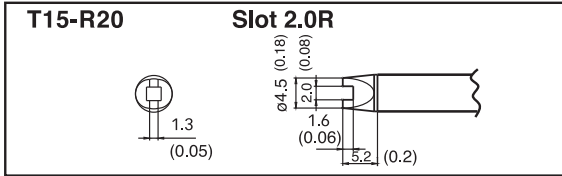


UNIT: mm (inch)



# T15 SERIES TIPS

FOR FM-203, FM-204, FM-205, FX-951 and FM-206 STATIONS



UNIT: mm (inch)

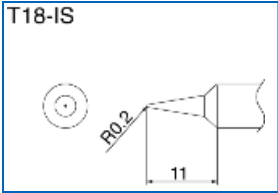
**N** Cross Reference Guide for T17 Tips and N2 Nozzles

T17 TIP		N2 NOZZLE	
Tip Shape	Part Number	Part No.	Part Name
2BC, 2BCF	T17-BC2, T17-BCF2	B2706	Nozzle assembly A
0.2J	T17-J02	B2707	Nozzle assembly B
1.6D, 0.5B, 2.4D	T17-D16, T17-B2, T17-D24	B2708	Nozzle assembly C
0.8D	T17-D08	B2709	Nozzle assembly D
1BC, 1BCF	T17-BC1, T17-BCF1	B2899	Nozzle assembly F
3BC, 3BCF	T17-BC3, T17-BCF3	B2900	Nozzle assembly G
KU	T17-KU	B2901	Nozzle assembly H
KF	T17-KF	B2923	Nozzle assembly J
KR	T17-KR	<b>B2902</b>	Nozzle assembly I

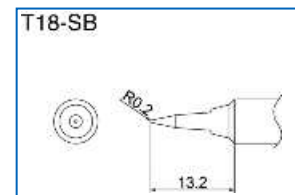
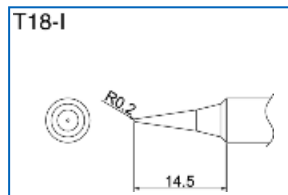
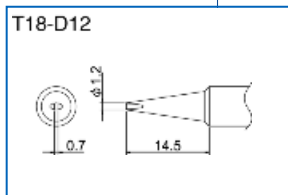
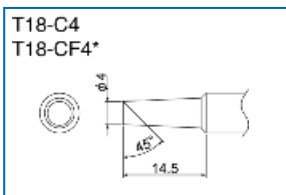
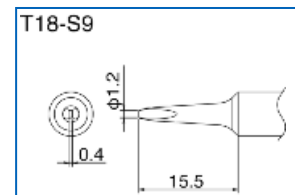
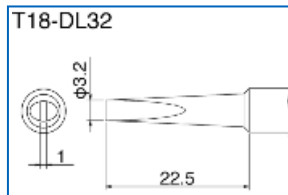
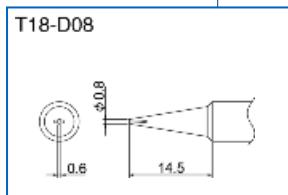
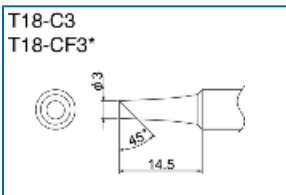
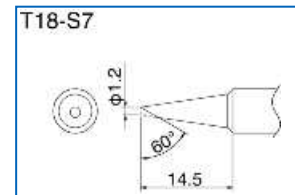
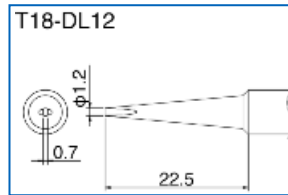
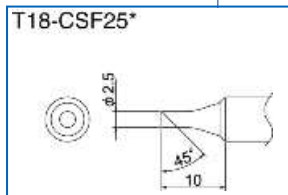
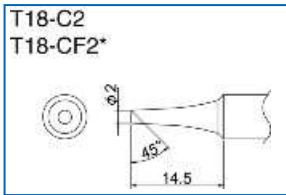
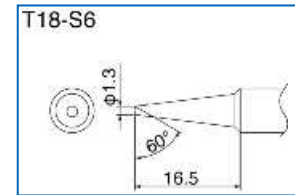
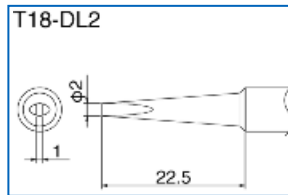
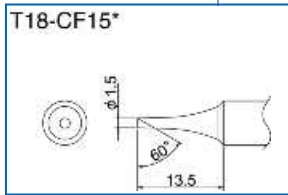
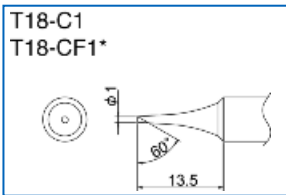
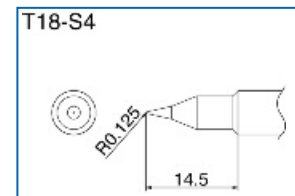
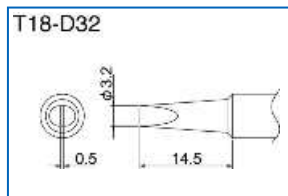
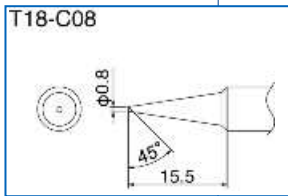
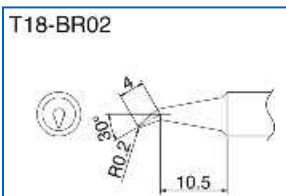
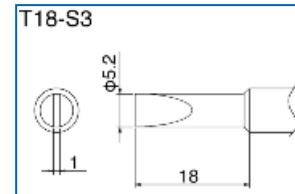
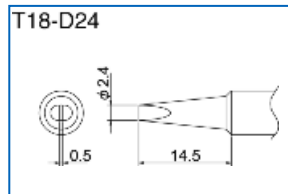
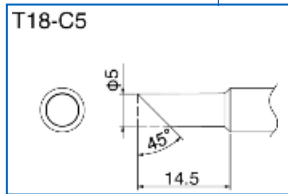
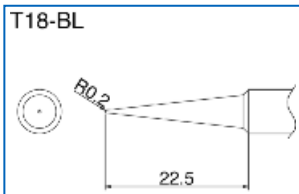
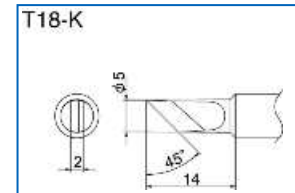
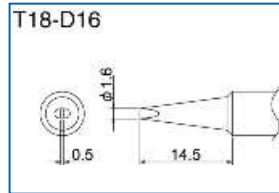
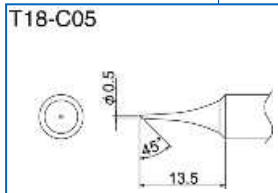
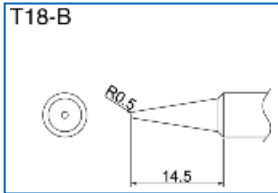
UNIT: mm (inch)

# T18 SERIES TIPS

FOR 900M-ESD, 907-ESD, 913, FX-600  
FX-8801, FX-8802, FX-8803



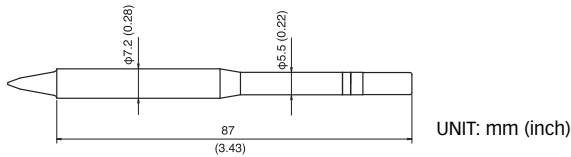
UNIT: mm (inch)



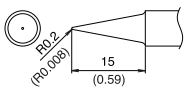
# T22 SERIES TIPS

---FOR Hakko FM-2030 and FM-2031 Heavy Duty Soldering Iron\*

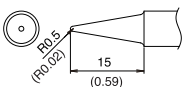
\* Nozzle assembly required when using Nitrogen (see table below).



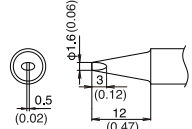
T22-BL SHAPE-BL



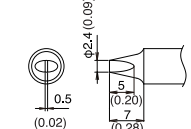
T22-BL2 SHAPE-2BL



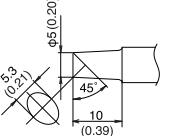
T22-D16 SHAPE-1.6D



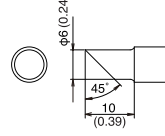
T22-D24 SHAPE-2.4D



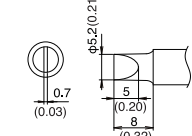
T22-C5 SHAPE-5C



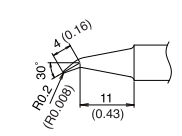
T22-C6 SHAPE-6C



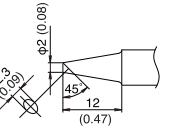
T22-D52 SHAPE-5.2D



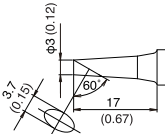
T22-J02 SHAPE-0.2J



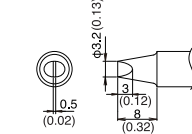
T22-BC2 SHAPE-2BC



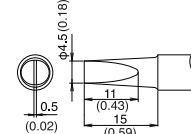
T22-C3 SHAPE-3C



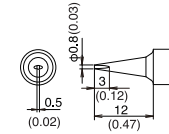
T22-D32 SHAPE-3.2D



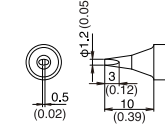
T22-D45 SHAPE-4.5D



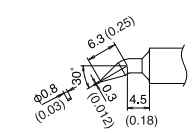
T22-D08 SHAPE-0.8D



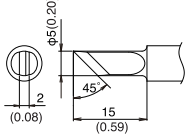
T22-D12 SHAPE-1.2D



T22-JD08 SHAPE-0.8JD



T22-K SHAPE-K



*Tip P/N	Nozzle Assy P/N	Nozzle Assy
T22-BL T22-BL2 T22-BC2 T22-C3 T22-D12 T22-J02	B3121	Nozzle Assy A
T22-D08 T22-D16 T22-K	B3123	Nozzle Assy C
T22-C5 T22-C6 T22-D32 T22-D45 T22-D52	B3124	Nozzle Assy D
T22-D24 T22-JD08	B3561	Nozzle Assy E

# FM-2030

HEAVY DUTY SOLDERING IRON

For use with FM-203 and FM-206

U.S. Patent number D660,667.



The Hakko FM-2030 Soldering Iron provides a higher mass tip with double the power of conventional T15 tips.

### Features and Benefits

- Uses T22 tips (not included)
- Compatible with the Hakko FM-203 soldering station and FM-206 rework system
- Includes holder (with sleep functionality), tip cleaner and other affiliated parts

Part Number: FM2030-02 = Conversion Kit  
Part Number: FM2030-01 = Handpiece ONLY

### SPECIFICATIONS

Part No. (Handpiece only)	FM2030-01	FM2031-01
Power Consumption	140 W 24 V	
Temperature Range	200-500°C / 400-930°F	
IPC J-STD-001	Meets or exceeds requirements	
Total Length (w/o cord)	224 mm (8.8 in.)	231 mm (9.1 in.)
Weight (w/o cord)	41 g (1.4 oz.)	47 g (1.7 oz.)
Cord/Reach	1.3 m (4.3 ft.)	
Tips	T22 Series (not included)	

**IMPORTANT:** The FM-2030 and the FM-2031 can only be attached to the Hakko FM-203 "D" port, and the Hakko FM-206 CH2 or CH3 ports. If you attach the iron to any other port, a grip error or connector error (C-E) will occur.

### CONTENTS

Part No.	Description
FM2030-02 or FM2031-02	Handpiece (P/N: FM2030-01 or FM2031-01)
	Handpiece Holder with Sleep Function— (P/N: FH200-01)
	Connecting Cable (P/N: B3253)
	Heat Resistant Pad (P/N: B2300)

# FM-2031

NITROGEN COMPATIBLE HEAVY DUTY SOLDERING IRON



### Features and Benefits

- Uses T22 tips (not included)
- Compatible with the Hakko FM-203 soldering station and FM-206 rework system

Part Number: FM2031-02 = Conversion Kit  
Part Number: FM2031-01 = Handpiece ONLY

The Hakko FM-2031 Soldering Iron provides double the power of T17 tips.

The FX-801 is the ideal soldering station for extremely large mass components such as, high current inductor coils, heat sinks, large transformers, shields and other difficult to solder applications where there is a significant amount of thermal inertia that must be overcome.

The station uses T33 Series Tips, which feature 260W composite ceramic heating elements. These heating elements have a top controlled temperature of 940°F (500°C) and high mass shapes, enabling you to solder some of the most challenging solder joints at only 750°F (400°C) and without preheating!

### Features and Benefits

- Up to 6 user programmable preset temperatures
- Process control lockout with password protection
- Lightweight (50g) heavy duty 260W soldering iron
- Sleep/Power-off function — station automatically enters sleep/power-off function when handpiece is placed in iron holder
- Large LED display
- Integrated handles on station make it easy to move or carry
- Low temperature alarm
- ESD Safe



Experience the Power of Ultra Heavy Duty Soldering!

U.S. Patent numbers D480,522, D542,110, D660,667.

# FX-801

Ultra Heavy Duty Soldering Station

## T33 SERIES TIPS

---FOR Hakko FX-801

### SPECIFICATIONS

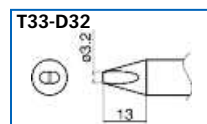
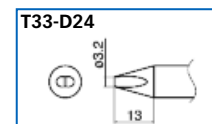
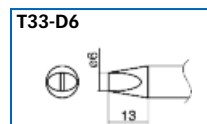
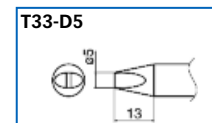
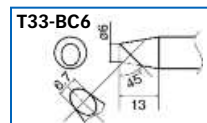
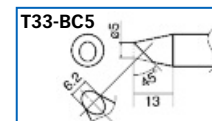
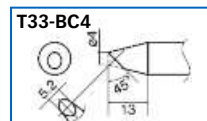
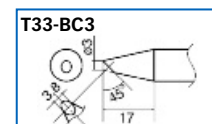
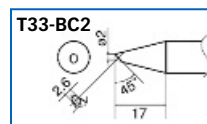
<b>Model Name</b>	FX-801
<b>Part Number</b>	FX801-02
<b>Voltage</b>	120 VAC 50/60 Hz
<b>Output Voltage</b>	29 V
<b>Power Consumption</b>	300 W
<b>Temperature Range</b>	120°F - 940°F (50°C - 500°C)
<b>Temperature Stability</b>	±9°F (±5°C)
<b>Outer Dimensions</b>	5.7 x 4.2 x 8.3 in. (145 x 107 x 211 mm)
<b>Weight (w/o Cord)</b>	8.3 lb. (3.9 kg)
<b>ESD Safe</b>	Yes

### Soldering Iron - Handpiece

<b>Model Number</b>	FX-8002
<b>Part Number</b>	FX8002-81
<b>Power Consumption</b>	260 W (29 V)
<b>Tip-to-Ground Resistance</b>	< 2 ohms
<b>Tip-to-Ground Potential</b>	< 2 mV
<b>Heater</b>	HAKKO Composite Ceramic™
<b>Tips†</b>	T33 Series (not included)
<b>Cord Length‡</b>	4 ft. (1.2 m)
<b>Total Length (w/o cord)‡</b>	9.0 in. (288 mm)
<b>Weight (w/o cord)</b>	0.11 lb. (50 g)

† Tips not included



































‡ As measured with T33-BC4 tip installed









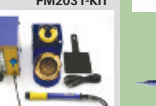







UNIT: mm (inch)

### CONTENTS

Part No.	Description	Part No.
<b>FX801-02</b>	FX-8002 Soldering Handpiece FH-200 Holder w/599B Tip Cleaner Sleep Connection Cable Heat Resistant Pad Power Cord Instruction Manual	<b>FX8002-81</b> <b>FH200-83</b> <b>B3253</b> <b>B2300</b> <b>B2419</b>

	SOLDERING	MICRO SOLDERING	DESOLDERING
 <p><b>FX-951 Soldering Station</b> P/N: FX951-66</p>	 <p>T15 Series Tips</p>  <p>FM2027-02 Connector (only)</p>  <p>Sleeve Assembly B3216 - yellow B3217 - orange B3218 - blue B3219 - green</p>  <p>FH200-01</p>	 <p>FM2032-52 (Kit)</p> <p>FM-2032 Handpiece FH200-51 Handpiece Holder with Sleep Function B2300 Heat Resistant Pad B3253 Connecting Cable</p>  <p>T30 Series Tips</p>	
 <p><b>FM-203 Dual Port Soldering System</b> P/N: FM203-01</p>	 <p>T15 Series Tips</p>  <p>FM2027-02 Connector (only)</p>  <p>Sleeve Assembly B3216 - yellow B3217 - orange B3218 - blue B3219 - green</p>  <p>FH200-01</p>  <p>FM2027-03</p>	 <p>FM2032-52 (Kit)</p> <p>FM-2032-01 Handpiece FH200-51 Handpiece Holder with Sleep Function B2300 Heat Resistant Pad B3253 Connecting Cable</p>  <p>T30 Series Tips</p>	<p><b>FM2024-21 Desoldering Conversion Kit</b></p>  <ul style="list-style-type: none"> <li>• FM2024-02 handpiece</li> <li>• C1492 control box</li> <li>• FH200-05 holder</li> <li>• B2873 cleaning drill</li> <li>• B2876 nozzle remover</li> <li>• A1514 ceramic filter, 10 pk</li> <li>• A1511 filter pipe assembly</li> </ul> <p><b>N3 series nozzles (not included)</b></p> <p>+ 999-216 shop air hose kit (not incl.)</p>
 <p><b>FM-206 3 Port Rework System</b> P/N: FM206-55</p>	 <p>T15 Series Tips</p>  <p>FM2027-02 Connector (only)</p>  <p>Sleeve Assembly B3216 - yellow B3217 - orange B3218 - blue B3219 - green</p>  <p>FH200-01</p>  <p>FM2027-06</p>	 <p>FM2032-52 (Kit)</p> <p>FM-2032-01 Handpiece FH200-51 Handpiece Holder with Sleep Function B2300 Heat Resistant Pad B3253 Connecting Cable</p>  <p>T30 Series Tips</p>	 <p><b>FM2024-42 (Kit)</b></p> <ul style="list-style-type: none"> <li>• FM2024-02 handpiece</li> <li>• FH200-05 holder</li> <li>• B2873 cleaning drill</li> <li>• B2876 nozzle remover</li> <li>• A1514 ceramic filter, 10 pk</li> <li>• A1511 filter pipe assembly</li> </ul> <p><b>N3 series nozzles (not included with station)</b></p>
 <p><b>FM-204 Desoldering and Soldering Station</b> P/N: FM204-01</p>	 <p>T15 Series Tips</p>  <p>FM2027-02 Connector (only)</p>  <p>Sleeve Assembly B3216 - yellow B3217 - orange B3218 - blue B3219 - green</p>  <p>FH200-01</p>  <p>FM2027-03</p>		 <p><b>FM2024-02 Handpiece</b> (included with station)</p> <p>FH200-05</p> <p><b>N3 series nozzles (not included with station)</b></p>

REWORK	N <sub>2</sub> SOLDERING	HOT AIR	HEAVY DUTY
<b>X</b>	<p style="text-align: right;">FX781-81</p>  <ul style="list-style-type: none"> <li>FX780-01 N<sub>2</sub> Generator</li> <li>FX791-01 N<sub>2</sub> Controller</li> <li>FM2026-01 Soldering Iron</li> </ul> <p>T17 tips (requires sleeve) T17 sleeves: B2769D, B2768D &amp; B2765D FM2026-KIT includes: FX791-01 Controller + FM2026 Iron</p>	<b>X</b>	<b>X</b>
 <p><b>FM2022-05 (kit)</b> Reel Remover T16 tips (not included) A1536 replacement sponge</p> <p><b>FM2023-05 (kit)</b> Mini Reel Remover T9-I tips included A1536 replacement sponge</p>	<p style="text-align: right;">FX781-81</p>  <ul style="list-style-type: none"> <li>FX780-01 N<sub>2</sub> Generator</li> <li>FX791-01 N<sub>2</sub> Controller</li> <li>FM2026-01 Soldering Iron or Optional FM2031</li> </ul> <p>T17/T22 tips (T17 requires sleeve) T17 sleeves: B2769D, B2768D &amp; B2765D FM2026-KIT includes: FX791-01 Controller + FM2026 Iron</p> <p style="text-align: right;">FM2031-KIT</p> 	<b>X</b>	 <p><b>FM2030-02 (Kit)</b></p> <p>FM-2030-01 Handpiece FH200-01 Handpiece Holder With Sleep Function B2300 Heat Resistant Pad B3253 Connecting Cable</p> <p><b>T22 Series Tips</b></p> 
 <p><b>FM2022-05 (kit)</b> Reel Remover T16 tips (not included) A1536 replacement sponge</p> <p><b>FM2023-05 (kit)</b> Mini Reel Remover T9-I tips included A1536 replacement sponge</p>	<p style="text-align: right;">FX781-81</p>  <ul style="list-style-type: none"> <li>FX780-01 N<sub>2</sub> Generator</li> <li>FX791-01 N<sub>2</sub> Controller</li> <li>FM2026-01 Soldering Iron or Optional FM2031</li> </ul> <p>T17/T22 tips (T17 requires sleeve) T17 sleeves: B2769D, B2768D &amp; B2765D FM2026-KIT includes: FX791-01 Controller + FM2026 Iron</p> <p style="text-align: right;">FM2031-KIT</p> 	<p style="text-align: center;"><b>FM2029-01 (Kit)</b></p> <p>FM-2029 Hot Air Handpiece N4 Nozzles (not included) C5034 Holder B2300 Heat Resistant Pad B3253 Connecting Cable</p>  <p style="text-align: center;"><b>FM2029-01 (Kit)</b></p> 	 <p><b>FM2030-02 (Kit)</b></p> <p>FM-2030-01 Handpiece FH200-01 Handpiece Holder With Sleep Function B2300 Heat Resistant Pad B3253 Connecting Cable</p> <p><b>T22 Series Tips</b></p> 
<b>X</b>	<p style="text-align: right;">FX781-81</p>  <ul style="list-style-type: none"> <li>FX780-01 N<sub>2</sub> Generator</li> <li>FX791-01 N<sub>2</sub> Controller</li> <li>FM2026-01 Soldering Iron</li> </ul> <p>T17 tips (requires sleeve) T17 sleeves: B2769D, B2768D &amp; B2765D FM2026-KIT includes: FX791-01 Controller + FM2026 Iron</p>	<b>X</b>	<b>X</b>





HakkoUSA.com

Soldering

U.S. Patent number D678,373.



The FX-888D is an updated digital version of the popular FX-888 with new features.

The added power of the Hakko FX-888D provides up to a 30% increase in operator productivity due to the increased thermal performance and faster thermal recovery time.

# FX-888D

## SOLDERING STATION

### SPECIFICATIONS

<b>Part No.</b>	FX888-23BY
<b>Power Consumption</b>	70 W
<b>Station</b>	
<b>Output</b>	26 VAC
<b>Temperature Range</b>	50 - 480°C (120 - 899°F)
<b>Temperature Stability<sup>1</sup></b>	±1°C (1.8°F)
<b>Temperature Control</b>	Microprocessor control using closed-loop sensor
<b>Temperature Presets</b>	2 - 5 (Default is 5)
<b>Dimensions</b>	100 (W) x 120 (H) x 120 (D) mm (3.9 x 4.7 x 4.7 in.)
<b>Weight</b>	1.2 kg (2.6 lbs.)
<b>ESD Safe</b>	YES
<b>IPC J-STD-001</b>	Meets or Exceeds Requirements
<b>Safety Approval</b>	cMETus

### Iron

<b>Model Name</b>	FX-8801
<b>Part No.</b>	FX8801-02
<b>Power Consumption</b>	65 W 26 VAC
<b>Heating Element</b>	Ceramic heater
<b>Cord Length/Reach</b>	1.2 m (3.9 ft.)
<b>Handpiece Length<sup>2</sup> (w/o cord)</b>	217 mm (8.5 in.)
<b>Handpiece Weight<sup>2</sup> (w/o cord)</b>	46 g (0.1 lbs.)
<b>Standard Tip (included)</b>	T18-D16
<b>Tips</b>	T18 Series

### New Features:

- User selectable preset temperatures and digital calibration simplify user setup and operation
- New password protection and low temperature alarm provide process control and help protect against cold solder joints

### Additional Features:

- Adjustable temperature control
- Temperature range of 50-480°C (120-899°F)
- Maintains an idle temperature within ±1°C (1.8°F)
- Ceramic heating element and sensor ensure rapid heat-up temperature and fast thermal recovery
- Digital display shows °C or °F
- Slender iron handles are padded and have an ergonomic design for comfort and ease of use
- Wide selection of tips available for soldering SMD and through-hole applications

### CONTENTS

Part No.	Description
N/A	FX-888D Station
FX8801-02	FX-8801 Soldering Iron
T18-D16	Soldering Iron Tip (installed on FX-8801)
FH800-03BY	Iron Holder
A1559	Cleaning Sponge
A1561	Tip Cleaning Wire
N/A	Instruction Manual-FX-888D

1 – Stability is at idle temperature in the range of 200°C – 480°C (400°F – 899°F)

2 – Handpiece length and weight are measured with the standard tip installed

### REPLACEMENT PARTS

Part No.	Description
A1560	Heating Element
B3469	Tip Enclosure
B1785	Nut
B2022	Nipple
A1559	Cleaning Sponge
A1561	Tip Cleaning Wire
B3472	Iron Holder Base
B3751	Bottom Plate with Lock

The HAKKO FX-889 Dual Port Soldering Station is the long awaited update to the favorite basic dual port soldering iron, the HAKKO 928. This station has the same great improvement in performance as the HAKKO FX-888D had over its predecessor



### Features and Benefits

- Up to 5 user programmable presets for each port
- Digital calibration
- Password lockout
- Low temperature alarm
- Each port operates as an independent soldering station with full power output allowing true simultaneous use of the various handpieces that can be connected to the HAKKO FX-889

In addition to the standard FX-8801 soldering iron, you can also use:

- FX-8802 (N2 version of the FX-8801)
- FX-8803 (soldering gun with manual solder feed trigger)
- FX-8804 (SMD hot tweezers)
- FX-8805 (Large soldering iron)

# FX-889

## DUAL PORT SOLDERING STATION

### CONTENTS

Part No.	Description	Part No.
FX889-04/P	Dual Iron Holder Cable Identification Band (2 pcs) Power Cord Instruction Manual	FH801-81 B5125 B2419

### FX-889 Available Handpieces



FX-8801  
Standard  
Soldering Iron



FX-8802  
Standard  
Soldering  
Iron with N2  
capability



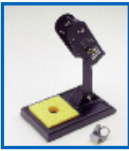
FX-8803  
Soldering  
Gun with  
Manual  
Solder Feed



FX-8804  
SMD  
Hot Tweezers



FX-8805  
Large  
Soldering Iron



FX-8803  
Holder



FX-8804  
Holder

### SPECIFICATIONS

Part No.	FX889-04/P
Input Voltage	120 VAC 50/60 Hz
Power Consumption	135 W Max
Temperature Range	120°F - 899°F (50°C - 480°C)
Temperature Stability <sup>1</sup>	±1.8°F (±1°C) at idle
Temperature Control	Microprocessor control using closed-loop sensor
Temperature Presets	2 - 5 (Default is 5)
Output Voltage	26 V
Dimension (W x H x D)	6.2 x 4.8 x 5.9 in. (157 x 121 x 149 mm)
Weight	4.6 lb. (2.1 kg)
ESD Safe	Yes

1 - Within the set temperature range of 400-899°F (200-480°C).

## T19 SERIES TIPS

FOR FX-601 & FX-8805 SOLDERING IRON

