



# FX-971 & FX-972

## SOLDERING STATIONS + ACCESSORIES



American Hakko Products, Inc. | [HakkoUSA.com](http://HakkoUSA.com)



NEW

# FX-971 SOLDERING STATION

The new HAKKO FX-971 Soldering Station is the future of soldering, bringing together precision and innovation with the quality, reliability and power HAKKO is known for. A 100W stackable station with a minimal footprint to maximize your workbench space, both a standard and micro handpiece, and an all-new holder for removing and storing tips. This newly designed stackable soldering station provides operators with a 15-degree face tilt, large LCD screen, multi-button functionality, and works with the new HAKKO Control Software.



### FEATURES & BENEFITS

- Lightweight and compact 100W soldering station
- Efficient soldering performance with new user interface
- New HAKKO Control Software allows for easy parameter set up, as well as data logging
- Large, easy-to-read LCD with a 15-degree face plate tilt
- Password lockout feature for process control
- Iron holder with built-in tip holder and tip exchange features
- Works seamlessly with the FC-008/0018 Tip Thermometer for measuring and auto-widely offsetting the tip temperature to the station



### SPECIFICATIONS For Part No. FX971-010

STATION	FX-971
Voltage	AC 24 V
Power Consumption	100 W
Temperature Range	120 °F – 850 °F / 50 °C – 450 °C
Temperature Stability	±5 °F / ±3 °C at idle
Outer Dimensions (W x H x D)	3.7 x 5 x 4.8 in. / 93 x 126 x 123 mm
Weight (w/o Cord)	2.6 lb / 1.2 kg
Included Handpiece	FX-9701 (P/N: FX9701-81) <i>see page 3</i>



### CONTENTS For Part No. FX971-010 (Complete Kit w/ Station, Handpiece & Iron Holder)

Part No.	Description
FX9701-81	FX-971 soldering station
FH215-010	FX-971 handpiece
B5129	FH-215 iron holder w/ cleaning sponge & wire
B2419	USB cable
--	Power cord
--	Instruction manual
--	CD-ROM for PC software

### FX971-010 SOLDERING STATION SET

Includes everything shown in picture.

#### IRON HOLDER

P/N: FH215-010

#### STATION

HAKKO

#### CD-ROM with PC SOFTWARE

#### SOLDERING HANDPIECE

P/N: FX9701-81

#### POWER CORD

P/N: B2419

#### USB CABLE

P/N: B5129

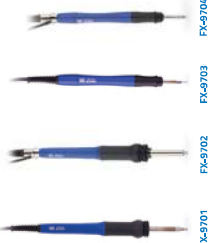


For more information Scan QR Code.

### 4 COMPATIBLE HANDPIECES

\* All handpieces sold separately.

Available also in N2.



FX-9701  
STANDARD

FX-9702  
STANDARD

FX-9703  
MICRO

FX-9704  
MICRO N2

New HAKKO Control Software allows the operator to set parameters, profiles and record offset & temperature data from a PC. To download the HAKKO Control Software visit us at: <https://haikoussa.com> or Scan the QR Code.



### HAKKO CONTROL SOFTWARE



# FX-9701 STANDARD SOLDERING HANDPIECE

The new HAKKO FX-9701 Standard Handpiece works with the FX-971 & FX-972 Soldering Stations. An ergonomic, lightweight, 95W handpiece with over 60 tip varieties. The FX-9701 perfectly accompanies the new FX-971 aesthetic and no longer requires the interchanging of grips. \*Tips Sold Separately.



For more information Scan QR Code.



### FEATURES & BENEFITS

- 95W Soldering Handpiece
- Single piece handpiece with built-in sleep mode sensor
- Offering a wide variety of T39 tips for various soldering applications



### SPECIFICATIONS For Part No. FX9701-81

HANDPIECE	FX-9701
Tip Series	T39 Series <i>see page 3-5</i>
Station Compatibility	FX-971 <i>see page 2</i> & FX-972 <i>see page 7</i>
Power Consumption	95 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater



### CONTENTS For Part No. FX9701-011 (Complete Kit w/ Handpiece & Holder)

Part No.	Description
FX9701-81	FX-9701 standard handpiece only
FH215-010	Holder + brass wire & cleaning sponge

Also Available: **FX-9702** Part No. FX9702-81

N<sub>2</sub> COMPATIBLE STANDARD SOLDERING IRON

### FX9701-011 STANDARD SOLDERING HANDPIECE KIT

Includes everything shown in picture.

#### IRON HOLDER

w/ Brass Wire & Sponge

P/N: FH215-010

#### SOLDERING HANDPIECE

P/N: FX9701-81

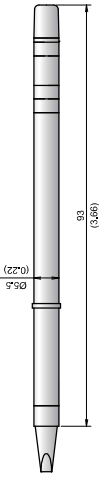
## T39 SERIES TIPS



### T39 SERIES TIPS FOR USE WITH THE FX-9701 & FX-9702 HANDPIECES

T39-802	(Conical)	T39-805	(Conical)	T39-807	(Conical)	T39-8C020	(Bevel)
	Tip: 7.5 (0.3), 2 (0.08), 10 (0.39)		Tip: 10 (0.39), 2 (0.08)		Tip: 5 (0.2), 2 (0.08)		Tip: 11.5 (0.45), 2 (0.08)
	Tip: 15 (0.59), 2 (0.08)		Tip: 20 (0.79), 2 (0.08)		Tip: 25 (1.0), 2 (0.08)		Tip: 30 (1.18), 2 (0.08)
	Tip: 15 (0.59), 2 (0.08)		Tip: 20 (0.79), 2 (0.08)		Tip: 25 (1.0), 2 (0.08)		Tip: 30 (1.18), 2 (0.08)

UNIT: mm/inch



### T39 SERIES TIPS FOR USE WITH THE FX-9701 & FX-9702 HANDPIECES

	UNIT: mm(inch)	
<b>T39-BC3545</b> (Bevel) 	<b>T39-BCF2535</b> (Bevel) 	<b>T39-BCF3545</b> (Bevel) 
<b>T39-BCM3545</b> (Bevel) 	<b>T39-BCI020</b> (Conical) 	<b>T39-BL102</b> (Conical) 
<b>T39-B502</b> (Conical) 	<b>T39-BS03</b> (Conical) 	<b>T39-C1025</b> (Bevel) 
<b>T39-C0055</b> (Bevel) 	<b>T39-CF055</b> (Bevel) 	<b>T39-D12</b> (Chisel) 
<b>T39-D16</b> (Chisel) 	<b>T39-D24</b> (Chisel) 	<b>T39-D4</b> (Chisel) 
<b>T39-D52</b> (Chisel) 	<b>T39-D132</b> (Chisel) 	<b>T39-DL52</b> (Long Chisel) 
<b>T39-DL15</b> (Chisel) 	<b>T39-I02</b> (Conical) 	<b>T39-IL5015</b> (Conical) 
<b>T39-J02</b> (Bent) 	<b>T39-J102</b> (Bent) 	<b>T39-J008</b> (Bent) 
<b>T39-BC3545</b> (Bevel) 	<b>T39-BCF2535</b> (Bevel) 	<b>T39-BCF3545</b> (Bevel) 
<b>T39-BCM3545</b> (Bevel) 	<b>T39-BCI020</b> (Conical) 	<b>T39-BL102</b> (Conical) 
<b>T39-B502</b> (Conical) 	<b>T39-BS03</b> (Conical) 	<b>T39-C1025</b> (Bevel) 
<b>T39-C0055</b> (Bevel) 	<b>T39-CF055</b> (Bevel) 	<b>T39-D12</b> (Chisel) 
<b>T39-D16</b> (Chisel) 	<b>T39-D24</b> (Chisel) 	<b>T39-D4</b> (Chisel) 
<b>T39-D52</b> (Chisel) 	<b>T39-D132</b> (Chisel) 	<b>T39-DL52</b> (Long Chisel) 
<b>T39-DL15</b> (Chisel) 	<b>T39-I02</b> (Conical) 	<b>T39-IL5015</b> (Conical) 
<b>T39-J02</b> (Bent) 	<b>T39-J102</b> (Bent) 	<b>T39-J008</b> (Bent) 

### T39 SERIES TIPS FOR USE WITH THE FX-9701 & FX-9702 HANDPIECES

	UNIT: mm(inch)	
<b>T39-JD14</b> (Bent) 	<b>T39-JD16</b> (Bent) 	<b>T39-KF</b> (Knife) 
<b>T39-KL</b> (Knife) 	<b>T39-KR</b> (Knife) 	<b>T39-SPI04</b> (Spatula) 
<b>T39-SPI17</b> (Spatula) 	<b>T39-SF712</b> (Spatula) 	<b>T39-SP104</b> (Spatula) 
<b>T39-BCR16</b> (Grooved Bevel) 	<b>T39-BCR24</b> (Grooved Bevel) 	<b>T39-BCR12</b> (Grooved Bevel) 
<b>T39-BCR52</b> (Grooved Bevel) 	<b>T39-DP12</b> (Grooved Chisel) 	<b>T39-DR12</b> (Grooved Chisel) 
<b>T39-BCR62</b> (Grooved Bevel) 	<b>T39-DP16</b> (Grooved Chisel) 	<b>T39-DR16</b> (Grooved Chisel) 
<b>T39-BCR62</b> (Grooved Bevel) 	<b>T39-DP16</b> (Grooved Chisel) 	<b>T39-DR16</b> (Grooved Chisel) 
<b>T39-DR32</b> (Grooved Chisel) 	<b>T39-DR4</b> (Grooved Chisel) 	<b>T39-DR52</b> (Grooved Chisel) 
<b>T39-DS2</b> (Short Chisel) 	<b>T39-DS4</b> (Short Chisel) 	<b>T39-DS2</b> (Short Chisel) 
<b>T39-DS2</b> (Short Chisel) 	<b>T39-DS2</b> (Short Chisel) 	<b>T39-DS2</b> (Short Chisel) 



For more information  
Scan QR Code.



# FX-9703 MICRO SOLDERING HANDPIECE

The new HAKKO FX-9703 Micro Soldering Handpiece works with the FX-971 & FX-972 Soldering Stations. A precision micro soldering iron with quick recovery time and 70W of power. This micro handpiece is ideal for soldering micro components especially when soldering under a microscope. 8 different tip variations for soldering components. The FX-9703 Micro Handpiece is the latest innovation in micro soldering.

\*Tips Sold Separately.



For more information  
Scan QR Code.



## FEATURES & BENEFITS

- 70W Micro Soldering Handpiece
- The slim and shorter handpiece is an ideal option for operators working under the microscope
- Offering 8 T50 tip types for all your micro soldering needs

## FX9703-011 MICRO SOLDERING HANDPIECE KIT

Includes everything shown in picture.

### IRON HOLDER

W/ Brass Wire & Springs  
P/N: FH215-011



The HAKKO FX-9703 Micro Soldering Handpiece is designed for soldering fine lead micro components without damage to the fine leads. **Not Recommended for Tip Soldering.**

## T50 SERIES TIPS

MICRO SOLDERING  
HANDPIECE  
P/N: FX9703-81

Also Available: **FX-9704** Part No. FX9704-81  
IN<sub>2</sub> COMPATIBLE MICRO SOLDERING IRON

## T50 SERIES TIPS FOR USE WITH THE FX-9703 & FX-9704 HANDPIECES

UNIT: mm(inch)	T50-002	T50-004	T50-006	T50-01	T50-KU	T50-KN	T50-KB
	(Chisel)	(Chisel)	(Chisel)	(Chisel)	(Knife)	(Knife)	(Knife)
	North Assy A P/N: B5337	North Assy A P/N: B5337	North Assy A P/N: B5337	North Assy A P/N: B5337	North Assy A P/N: B5337	North Assy A P/N: B5337	North Assy A P/N: B5337
	North Assy B P/N: B5338	North Assy B P/N: B5338	North Assy B P/N: B5338	North Assy B P/N: B5338	North Assy B P/N: B5338	North Assy B P/N: B5338	North Assy B P/N: B5338

Note: Nozzle Assy A & B may be used with the T50 Tips (D02, D04, D06, D1 & D11). Use Nozzle Assy A when using the tip parallel to the board or when Nozzle Assy B interferes with surrounding components.



Nozzle Assy A  
Nozzle Assy B

For more information Scan QR Code.



COMING SOON

# FX-972 DUAL-PORT SOLDERING STATION

The new HAKKO FX-972 Dual-Port Soldering Station is a 200W soldering station that has the power to utilize multiple handpieces for various operator needs. The FX-972 supports 8 different types of handpieces including regular and micro soldering irons, rework tweezers, micro rework tweezers, heavy-duty soldering irons, and nitrogen handpieces as well. In addition, the FX-972 uses a large LCD display, intuitive user interface, wireless IR temperature offsetting, and works with the new HAKKO Control Software for data logging capabilities.



## FEATURES & BENEFITS

- A 200W dual port soldering station
- Compatible with 8 different handpieces (see below)
- Large, easy-to-read LCD with a 15-degree face plate tilt
- Password lockout feature for process control
- Iron holder with built-in tip holder and tip exchange features
- Works seamlessly with the FG-100B/101B Tip Thermometer for measuring and wirelessly offsetting the tip temperature on the station



## SPECIFICATIONS For Part No. FX972-011

STATION	
Voltage	AC 24 V
Power Consumption	200 W
Max Temperature Range	120°F – 940°F / 50°C – 500°C *Varies w/ handpiece
Temperature Stability	±5°F / ±3°C at idle
Outer Dimensions (W x H x D)	5 x 5.9 x 5.4 in. / 126 x 151 x 136 mm
Weight (w/o Cord)	6.2 lb / 2.8 kg



## CONTENTS For Part No. FX972-011 (Station Only)

Part No.	Description
BE248	FX-972 soldering station
B5129	USB cable
B2419	Power cord
	Instruction manual
	CD-ROM for PC software

## FX972-011 SOLDERING STATION ONLY

Includes everything shown in picture.



### USB CABLE

P/N: B5129



### CD-ROM for PC SOFTWARE



### COLOR BAND

P/N: B5348



### STATION



### POWER CORD

P/N: B2419

## HAKKO CONTROL SOFTWARE



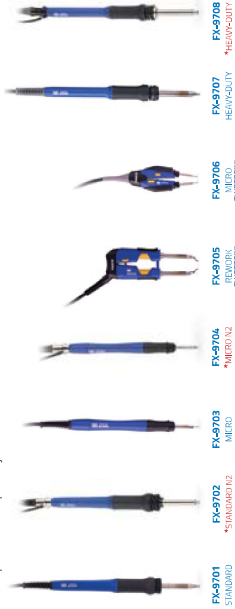
New HAKKO Control Software allows the operator to set parameters, profiles and record offset & temperature data from a PC. To download the HAKKO Control Software visit us at: <https://hakkousa.com> or Scan the QR Code.



For more information Scan QR Code.

## 8 COMPATIBLE HANDPIECES

\*All handpieces sold separately. Available also in NZ.



FX-9706  
HEAVY-DUTY  
TWEEZERS

FX-9707  
HEAVY-DUTY  
TWEEZERS

FX-9708  
REWORK  
TWEEZERS

FX-9709  
REWORK  
TWEEZERS

FX-9704  
MICRO

FX-9703  
MICRO

FX-9702  
MICRO

FX-9701  
STANDARD



COMING SOON

# FX-9705 REWORK TWEEZERS

The new HAKKO FX-9705 Rework Tweezers is the latest handpiece to work for use with the FX-972 dual port soldering station. Designed for the removal of small surface mount components, this lightweight, ergonomic handpiece delivers 190W of power to ensure the job gets done efficiently. The FX-9705 has two levels of adjustment capabilities built-in. *\*TIPS Sold Separately.*



# FX-9706 MICRO TWEEZERS

The latest HAKKO FX-9706 Micro Tweezers is designed to work specifically with the FX-972 Dual Soldering Station. The FX-9706 has quick thermal recovery performance and is excellent for micro SMD components. *\*TIPS Sold Separately.*



## FEATURES & BENEFITS

- 190W Rework Tweezers
- Superior thermal performance
- Quick thermal recovery and light weight ergonomic design
- Two levels of adjustments: Vertical and Forward

### FX9705-011 REWORK TWEEZERS KIT

Includes everything shown in picture.



### REWORK TWEEZERS

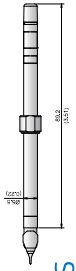
P/N: FX9705-81

### IRON HOLDER w/ Brass Wire & Sponge

P/N: FH220-013



## T51 SERIES TIPS



### 2 LEVELS OF TIP ALIGNMENT:



VERTICAL



FORWARD



For more information  
Scan QR Code.



## FEATURES & BENEFITS

- 140W Micro Tweezers
- Four levels of tip alignment:
  - 1) Vertical: ±1 mm (Perfectly adjusts the tips for precision accuracy)
  - 2) Horizontal: ±0mm (This allows for larger and much smaller components to be removed with a width range of 10 mm down to 0)
  - 3) Forward: ±1.5 mm (Both left and right tips are adjustable to correct alignment)
  - 4) Angle: ±200 deg (Rotating the tips give the operator better control of how they would like to remove the components, catering to preference)
- The handpiece is ESD safe with an ergonomic shape for comfort
- The holder includes built-in tip removal feature, stores up to 4 spare tips and makes changing out hot tips easy and convenient
- Sleep function that engages when the handpiece is placed in the holder

### FX9706-011 MICRO TWEEZERS KIT

Includes everything shown in picture.



### IRON HOLDER w/ Brass Wire & Sponge

P/N: FH215-014

### MICRO TWEEZERS

P/N: FX9706-81

### 4 LEVELS OF TIP ALIGNMENT:



VERTICAL



HORIZONTAL



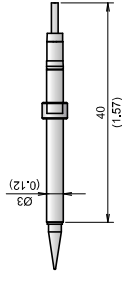
FORWARD



ANGLE



For more information  
Scan QR Code.



## T52 SERIES TIPS



### T52 SERIES TIPS FOR USE WITH FX-9706 MICRO TWEEZERS (T52 series tips all sold as pairs)

T52-0005	T52-0015	T52-0005	T52-0015	T52-0015	UNIT: mm(inch)
(Conical)	(Conical)	(Conical)	(Bent)	(Bent)	(Bent)
T52-K	T52-L1	T52-L2			
(Knife)	(Chip)	(Chip)			
For more information Scan QR Code.					



## SPECIFICATIONS For Part No. FX9705-81

HANDPIECE	
Tip Series	T51 Series see below
Station Compatibility	FX-972 see page 7
Power Consumption	190 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater



## CONTENTS For Part No. FX9705-011 (Complete Kit w/ Rework Tweezers & Holder)

Part No.	Description
FX9705-81 FH220-013	FX-9705 rework tweezers only Holder + brass wire & sponge



VERTICAL



FORWARD



For more information  
Scan QR Code.

### T51 SERIES TIPS FOR USE WITH THE FX-9705 REWORK TWEEZERS (T51 series tips all sold as pairs)

T51-0005	T51-0005	T51-L1	T51-L1	T51-L2	T51-L2	UNIT: mm(inch)
(Chip)	(Chip)	(Chip)	(Chip)	(Chip)	(Chip)	(Chip)
T51-L3	T51-L3	T51-L8	T51-L8	T51-L4	T51-L4	(SOP)
(SOP)	(SOP)	(SOP)	(SOP)	(SOP/Angled)	(SOP/Angled)	(SOP)
T51-L4	T51-L4	T51-L6	T51-L6	T51-L6	T51-L6	(SOP/Angled)
(SOP)	(SOP)	(SOP/Angled)	(SOP/Angled)	(SOP/Angled)	(SOP/Angled)	(SOP/Angled)
T51-L8	T51-L8	T51-L10	T51-L10	T51-L10	T51-L10	(SOP/Angled)
(SOP/Angled)	(SOP/Angled)	(SOP/Angled)	(SOP/Angled)	(SOP/Angled)	(SOP/Angled)	(SOP/Angled)
For more information Scan QR Code.						



COMING SOON

# FX-9707 HEAVY-DUTY HANDPIECE

The HAKKO FX-9707 Heavy-Duty Handpiece is for the FX-972 Dual Soldering Station. The FX-9707 is a 200W iron meant for use on larger mass components and large heat sinks. *\*Tips Sold Separately.*



For more information  
Scan QR Code.



## FEATURES & BENEFITS

- 200W Heavy-Duty Soldering Handpiece
- Single piece handpiece with built-in sleep mode sensor
- Offering 14 different T53 tips for all your heavy-duty soldering needs

### FX9707-011

HEAVY-DUTY SOLDERING HANDPIECE KIT

Includes everything shown in pictures.

#### SOLDERING HANDPIECE

P/N: FX9707-81

#### IRON HOLDER

w/ Brass Wire & Sponge

P/N: FH220-82



## SPECIFICATIONS For Part No. FX9707-81

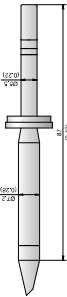
HANDPIECE	
Tip Series	T53 Series (see below)
Station Compatibility	FX-972 (see page 7)
Power Consumption	200 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater



## CONTENTS for Part No. FX9707-011 (Complete Kit w/ Heavy-duty handpiece & Holder)

Part No.	Description
FX9707-81 FH220-82	FX-9707 Heavy-duty handpiece only Holder + brass wire & sponge

## T53 SERIES TIPS



Also Available: **FX-9708** Part No. **FX9708-81**  
**N<sub>2</sub> COMPATIBLE HEAVY-DUTY SOLDERING IRON**

TIP	Shape	Part No.	UNIT: mm(Inch)		
T53-805	(Conical)	T53-BC2030	(Bevel)	T53-BC0600	(Bevel)
			(Bevel)	T53-D45	(Chisel)
T53-016	(Chisel)	T53-032	(Chisel)	T53-D45	(Chisel)
			(Chisel)	T53-D45	(Chisel)
T53-052	(Chisel)	T53-032	(Chisel)	T53-D45	(Chisel)
			(Chisel)	T53-D45	(Chisel)
T53-K	(Knife)	T53-BC1645	(Slotted)	T53-D45	(Chisel)
			(Slotted)	T53-D45	(Chisel)



For more information  
Scan QR Code.



# FG-100B TIP THERMOMETER

The HAKKO FG-100B Tip Thermometer measures soldering iron tip temperatures as well as solder pot temperatures and hot air station temperatures (with optional temperature probes). Lightweight, easy to replace sensors provide accurate measurement of tips and nozzles for verification or calibration processes.



Part No. **FG100B-03**  
For more information Scan QR Code.

Both FG-100B and FG-101B also features the ability to send measurement information using IR to a compatible station that will automatically calibrate the tip temperature.

# FG-101B SOLDERING IRON TESTER

The HAKKO FG-101B Soldering Iron Tester measures tip temperature, leak voltage, and tip-to-ground resistance. This tester will provide you with quick and accurate measurements.



Part No. **FG101B-03**  
For more information Scan QR Code.

# N<sub>2</sub> ACCESSORIES

## FX-9702, FX-9704 & FX-9708

All N<sub>2</sub> accessories may be used together with the HAKKO FX-780 N<sub>2</sub> Generator and the HAKKO FX-791 Regulator (as shown in image).



For more information Scan QR Code.



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BRO-HAK-02 Rev. 2023-04

