



FX-971 & FX-972

SOLDERING STATIONS + ACCESSORIES



American Hakko Products, Inc. | 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 FG-100B/101B Tip Thermometer for measuring and wirelessly offsetting the tip temperature to the station



SPECIFICATIONS For Part No. FX971-010

STATION	
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 133 mm
Weight (w/o Cord)	2.6 lb / 1.2 kg
Included Handpiece	FX-9701 (P/N: FX9701-81) see page 3



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

Part No.	Description
--	FX-971 soldering station
FX9701-81	FX-9701 soldering handpiece
FH215-010	FH-215 iron holder w/ cleaning sponge & wire
B5129	USB cable
B2419	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

**CD-ROM with
PC SOFTWARE**



USB CABLE
P/N: B5129

**SOLDERING
HANDPIECE**
P/N: FX9701-81

POWER CORD
P/N: B2419

4 COMPATIBLE HANDPIECES

* All handpieces sold separately.
Available also in N2.



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](#).



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

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



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**
N₂ COMPATIBLE STANDARD SOLDERING IRON

T39 SERIES TIPS

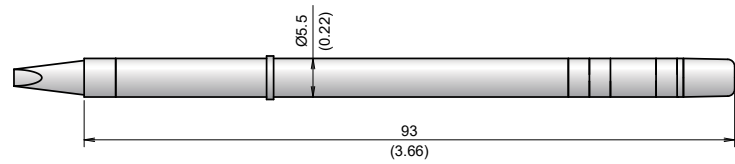


T39 SERIES TIPS FOR USE WITH THE FX-9701 & FX-9702 HANDPIECES

UNIT: mm(inch)

T39-B02	T39-B05	T39-B07	T39-BC1020
(Conical)	(Conical)	(Conical)	(Bevel)
Nozzle Assy F N2 B5295	Nozzle Assy G N2 B5296	Nozzle Assy C N2 B5292	Nozzle Assy I N2 B5298
T39-BC1530	T39-BC2040	T39-BC2535	T39-BC3065
(Bevel)	(Bevel)	(Bevel)	(Bevel)
		Nozzle Assy H N2 B5297	





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

UNIT: mm(inch)

T39-BC3545 (Bevel) Nozzle Assy E N2 B5294	T39-BCF1020 (Bevel) Nozzle Assy I N2 B5298	T39-BCF2535 (Bevel) Nozzle Assy H N2 B5297	T39-BCF3545 (Bevel) Nozzle Assy E N2 B5294
T39-BCM2535 (Bevel) Nozzle Assy H N2 B5297	T39-BCM3545 (Bevel) Nozzle Assy E N2 B5294	T39-BL02 (Conical) Nozzle Assy K N2 B5333	T39-BLL02 (Conical) Nozzle Assy I N2 B5298
T39-B502 (Conical) Nozzle Assy J N2 B5332	T39-B503 (Conical) Nozzle Assy J N2 B5332	T39-C1020 (Bevel) Nozzle Assy J N2 B5332	T39-C1025 (Bevel) Nozzle Assy J N2 B5332
T39-C4055 (Bevel) Nozzle Assy E N2 B5294	T39-CF4055 (Bevel) Nozzle Assy E N2 B5294	T39-D08 (Chisel) Nozzle Assy G N2 B5296	T39-D12 (Chisel) Nozzle Assy G N2 B5296
T39-D16 (Chisel) Nozzle Assy G N2 B5296	T39-D24 (Chisel) Nozzle Assy D N2 B5293	T39-D32 (Chisel) Nozzle Assy D N2 B5293	T39-D4 (Chisel) Nozzle Assy B N2 B5291
T39-D52 (Chisel) Nozzle Assy B N2 B5291	T39-DL32 (Long Chisel) Nozzle Assy B N2 B5291	T39-DL4 (Long Chisel) Nozzle Assy B N2 B5291	T39-DL52 (Long Chisel) Nozzle Assy B N2 B5291
T39-DLS15 (Chisel) Nozzle Assy B N2 B5291	T39-I02 (Conical) Nozzle Assy J N2 B5332	T39-IL02 (Conical) Nozzle Assy K N2 B5333	T39-ILS015 (Conical) Nozzle Assy K N2 B5333
T39-J02 (Bent) Nozzle Assy I N2 B5298	T39-JL02 (Bent) Nozzle Assy I N2 B5298	T39-JS02 (Bent) Nozzle Assy I N2 B5298	T39-JD08 (Bent) Nozzle Assy I N2 B5298

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

UNIT: mm(inch)

T39-JD14 (Bent) Nozzle Assy B N2 B5291	T39-JD16 (Bent) Nozzle Assy B N2 B5291	T39-K (Knife) Nozzle Assy A N2 B5290	T39-KF (Knife) Nozzle Assy A N2 B5290
T39-KL (Knife) Nozzle Assy B N2 B5291	T39-KR (Knife) Nozzle Assy B N2 B5291	T39-KU (Knife) Nozzle Assy F N2 B5295	T39-SP104 (Spatula) Nozzle Assy I N2 B5298
T39-SP157 (Spatula) Nozzle Assy I N2 B5298	T39-SP212 (Spatula) Nozzle Assy I N2 B5298	T39-BCR1235 (Grooved) Nozzle Assy D N2 B5293	T39-BCR12 (Grooved Bevel) Nozzle Assy I N2 B5298
T39-BCR16 (Grooved Bevel) Nozzle Assy I N2 B5298	T39-BCR24 (Grooved Bevel) Nozzle Assy H N2 B5297	T39-BCR32 (Grooved Bevel) Nozzle Assy E N2 B5294	T39-BCR4 (Grooved Bevel) Nozzle Assy B N2 B5291
T39-BCR52 (Grooved Bevel) Nozzle Assy B N2 B5291	T39-DR12 (Grooved Chisel) Nozzle Assy G N2 B5296	T39-DR16 (Grooved Chisel) Nozzle Assy G N2 B5296	T39-DR24 (Grooved Chisel) Nozzle Assy D N2 B5293
T39-DR32 (Grooved Chisel) Nozzle Assy D N2 B5293	T39-DR4 (Grooved Chisel) Nozzle Assy D N2 B5293	T39-DR52 (Grooved Chisel) Nozzle Assy B N2 B5291	T39-DS24 (Short Chisel) Nozzle Assy C N2 B5292
T39-DS32 (Short Chisel) Nozzle Assy C N2 B5292	T39-DS4 (Short Chisel) Nozzle Assy C N2 B5292	T39-DS52 (Short Chisel) Nozzle Assy C N2 B5292	



For more information
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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

SPECIFICATIONS For Part No. FX9703-81

HANDPIECE	
Tip Series	T50 Series <i>see below</i>
Station Compatibility	FX-971 <i>see page 2</i> & FX-972 <i>see page 7</i>
Power Consumption	70 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater

FX9703-011 MICRO SOLDERING HANDPIECE KIT

Includes everything shown in picture.



IRON HOLDER w/ Brass Wire & Sponge P/N: FH215-011



The **HAKKO FT-720 Tip Cleaner** provides quick and effective cleaning of soldering iron tips with sensor activated counter-rotating brushes, which remove tip oxides, debris, and excess solder without damaging the tip plating.
*Sold Separately

CONTENTS For Part No. FX9703-011 (Complete Kit w/ Micro Handpiece & Holder)

Part No.	Description
FX9703-81 FH215-011	FX-9703 Micro handpiece Holder + brass wire & sponge

Also Available: **FX-9704** Part No. FX9704-81
N₂ COMPATIBLE MICRO SOLDERING IRON



T50 SERIES TIPS

**MICRO SOLDERING
HANDPIECE**
P/N: FX9703-81

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

UNIT: mm(inch)

T50-D02	(Chisel)	T50-D04	(Chisel)	T50-D06	(Chisel)	T50-D1	(Chisel)
Nozzle Assy A Nozzle Assy B N2 B5337 N2 B5338		Nozzle Assy A Nozzle Assy B N2 B5337 N2 B5338		Nozzle Assy A Nozzle Assy B N2 B5337 N2 B5338		Nozzle Assy A Nozzle Assy B N2 B5337 N2 B5338	
T50-I01	(Conical)	T50-J01	(Bent)	T50-KU	(Knife)	T50-KN	(Knife)
Nozzle Assy A Nozzle Assy B N2 B5337 N2 B5338		Nozzle Assy A N2 B5337		Nozzle Assy A N2 B5337		Nozzle Assy A N2 B5337	

Note: Nozzle Assy A & B may be used with the T50 tips (D02, D04, D06, D1 & I01). Use Nozzle Assy A when using the tip parallel to the board or when Nozzle Assy B interferes with surrounding components.



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 × 5.9 × 5.4 in. / 126 × 151 × 136 mm
Weight (w/o Cord)	6.2 lb / 2.8 kg

FX972-011 SOLDERING STATION ONLY

Includes everything shown in picture.

CD-ROM for
PC SOFTWARE



USB CABLE
P/N: B5129



STATION

COLOR BAND
P/N: B5348



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

Part No.	Description
--	FX-972 soldering station
B5348	Color band
B5129	USB cable
B2419	Power cord
--	Instruction manual
--	CD-ROM for PC software

8 COMPATIBLE HANDPIECES

* All handpieces sold separately. Available also in N2.



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.



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.*



FEATURES & BENEFITS

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



SPECIFICATIONS For Part No. FX9705-81

HANDPIECE	
Tip Series	T51 Series <i>see below</i>
Station Compatibility	FX-972 <i>see page 7</i>
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

FX9705-011 REWORK TWEEZERS KIT

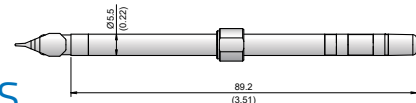


REWORK TWEEZERS P/N: FX9705-81

IRON HOLDER w/ Brass Wire & Sponge P/N: FH220-013



T51 SERIES TIPS



2 LEVELS OF
TIP ALIGNMENT:



For more information
Scan QR Code.



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

UNIT: mm(inch)

T51-C05	(Chip)	T51-I05	(Chip)	T51-L1	(Chip)	T51-L2	(Chip)
T51-L3	(Chip)	T51-L6	(SOP)	T51-L8	(SOP)	T51-L10	(SOP)
T51-L13	(SOP)	T51-L16	(SOP)	T51-LA3	(Chip/Angled)	T51-LA6	(SOP/Angled)
		T51-LA8	(SOP/Angled)	T51-LA10	(SOP/Angled)		



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COMING SOON

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

- 140W Micro Tweezers
- Four levels of tip alignment:
 - 1) Vertical: ±1 mm (Perfectly adjusts the tips for precision accuracy)
 - 2) Horizontal: 10mm (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



SPECIFICATIONS For Part No. FX9706-81

HANDPIECE	
Tip Series	T52 Series <i>see below</i>
Station Compatibility	FX-972 <i>see page 7</i>
Power Consumption	140 W / 24 VAC
Tip-to-Ground Resistance	< 2 Ω
Leak Voltage	< 2 mV
Heating Element	Composite heater



CONTENTS For Part No. FX9706-011 (Complete Kit w/ Micro Tweezers & Holder)

Part No.	Description
FX9706-81 FH215-014	FX-9706 Micro tweezers only Holder + brass wire & sponge

FX9706-011 MICRO TWEEZER 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)

UNIT: mm(inch)

T52-I005	(Conical)	T52-I015	(Conical)	T52-J005	(Bent)	T52-J015	(Bent)
T52-K	(Knife)	T52-L1	(Chip)	T52-L2	(Chip)		



For more information
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COMING SOON

FX-9707 HEAVY-DUTY HANDPIECE



For more information
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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.*



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



SPECIFICATIONS For Part No. FX9707-81

HANDPIECE	
Tip Series	T53 Series <i>see below</i>
Station Compatibility	FX-972 <i>see page 7</i>
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

FX9707-011 HEAVY-DUTY SOLDERING HANDPIECE KIT

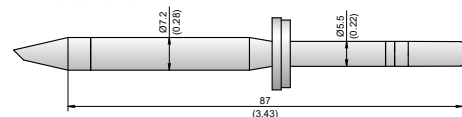
Includes everything shown in picture.



IRON HOLDER
w/ Brass Wire & Sponge
P/N: FH220-82

**SOLDERING
HANDPIECE**
P/N: FX9707-81

T53 SERIES TIPS



Also Available: **FX-9708** Part No. FX9708-81
N₂ COMPATIBLE HEAVY-DUTY SOLDERING IRON



T53 SERIES TIPS FOR USE WITH THE FX-9707 & FX-9708 HEAVY-DUTY HANDPIECES

UNIT: mm(inch)

T53-B05	(Conical)	T53-BC2030	(Bevel)	T53-BC4060	(Bevel)	T53-BC6090	(Bevel)
	Nozzle Assy A N2 B5345		Nozzle Assy A N2 B5345		Nozzle Assy C N2 B5347		Nozzle Assy C N2 B5347
	Nozzle Assy A N2 B5345		Nozzle Assy C N2 B5347		Nozzle Assy C N2 B5347		Nozzle Assy C N2 B5347
	Nozzle Assy C N2 B5347		Nozzle Assy B N2 B5346		Nozzle Assy B N2 B5346		Nozzle Assy B N2 B5346
	Nozzle Assy B N2 B5346		Nozzle Assy B N2 B5346				

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.



N₂ ACCESSORIES FX-9702, FX-9704 & FX-9708

All N₂ accessories may be used together with the Hakko FX-780 N₂ Generator and the Hakko FX-791 Regulator (as shown in image).



For more information Scan QR Code.



American Hakko Products, Inc.

 1-800-88-HAKKO (42556)

 28920 Avenue Williams
Valencia, CA 91355

 HakkoUSA.com

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