



# FX-100

## INDUCTION HEATING SOLDERING STATION + ACCESSORIES

Designed with **Power** in Mind to be  
**Fast, Efficient, and Reliable**





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FH800-51BY



Micro Rework  
"T38 Series"



Micro Soldering  
"T35 Series"



Soldering  
"T31 Series"

# QUALITY. RELIABILITY. POWER.

Experience the power of induction heating with the **HAKKO FX-100 Soldering Station**. The FX-100 sets a new standard for quality. Designed for fast, efficient, and reliable soldering. It's compact design, boost control, and precision are RF induction heating technology at its best.



FX-1003\*



FX-100



FX-1002\*



FX-1001\*



# FX-100

## INDUCTION HEATING SOLDERING STATION



No calibration required. Simply turn ON the station, and feel its power! Within seconds, you'll notice the power from the HAKKO FX-100 rapidly transferring heat to the tips using HAKKO's induction heating technology. *\*Tips Sold Separately.*



### FEATURES & BENEFITS

- Password Lockout prevents unauthorized system setup changes
- 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 for the operator
- Auto shut-off safety feature
- Compact design minimizes the workbench footprint
- Meets or exceeds requirements under IPC J-STD-001, ANSDI ESD S20.20 and older MIL-STDs



### SPECIFICATIONS For Part No. FX100-04

STATION	
Voltage	120 V
Power Consumption	85 W
Temperature Stability	Meets or exceeds IPC J-STD-001, ANSDI ESD S20.20 and older MIL-STDs
Output Frequency	13.56 MHz
Outer Dimensions (W x H x D)	127 mm x 150 mm x 167 mm   5.0" x 5.9" x 6.6"
FX-1001 HANDPIECE	
Tip to Ground Resistance	< 2 Ω
Tip to Ground Potential	< 2 mV
Cord Length	1.3 m (4.3 ft)
Total Length*	190 mm (7.5 in) with T31-02D24 tip

### FX100-04 SOLDERING STATION

Includes everything shown in picture.



### CONTENTS For Part No. FX100-04 (Complete Kit w/ Station, Handpiece & Iron Holder)

Part No.	Description
FX100-53	Station + B2419 (power cord)
FX1001-51	Handpiece
FH800-51BY	Iron holder + brass wire & sponge
B5006	Heat resistant sleeve - yellow color (installed)
B5007	Heat resistant sleeve - green color
B5008	Heat resistant sleeve - gray color
B2300	Heat resistant pad
N/A	Instruction manual



For more information [Scan QR Code.](#)

# FX-1001

## STANDARD HANDPIECE



The **FX-1001 Standard Soldering Handpiece** is a lightweight, slender, and ergonomically designed handpiece with a burn resistant cord that allows the operator excellent dexterity. The FX-1001 handpieces works with the FX-100 soldering station, and uses T31 series tips, available in 4 different temperature series. *\*Tips Sold Separately.*



### FEATURES & BENEFITS

- Powered by RF (induction) heating
- T31 series tips deliver great performance while providing up to 2 times longer tip life (on average) compared to other non-HAKKO tips
- No calibration required
- Slender, lightweight, and ergonomically designed handpiece with burn resistant cord allowing for excellent operator dexterity
- Conversion Kit Available (FX1001-52)
- Sleep function that engages when the handpiece is placed in the holder



### SPECIFICATIONS For Handpiece Only Part No. FX1001-51

<b>Series Tips</b>	T31-00: 895°F (480°C), T31-01: 840°F (450°C), T31-02: 750°F (400°C), T31-03: 660°F (350°C)
<b>Type of Station</b>	HAKKO Induction Heating Soldering Station
<b>Tip to Ground Resistance</b>	<2 Ω
<b>Tip to Ground Potential</b>	<2 mV
<b>Cord Length</b>	1.3 m (4.3 ft)
<b>Total Length*</b>	190 mm (7.5 in) with T31-02D24 tip



### CONTENTS For Part No. FX1001-52 (Complete Kit w/ Handpiece & Iron Holder)

Part No.	Description
<b>FX1001-51</b>	Handpiece
<b>FH800-51BY</b>	Iron holder + brass wire & sponge
<b>B5006</b>	Heat resistant sleeve - yellow color (installed)
<b>B5007</b>	Heat resistant sleeve - green color
<b>B5008</b>	Heat resistant sleeve - gray color
<b>B2300</b>	Heat resistant pad
<b>N/A</b>	Instruction manual

## FX1001-52 STANDARD HANDPIECE KIT

Includes everything shown in picture.



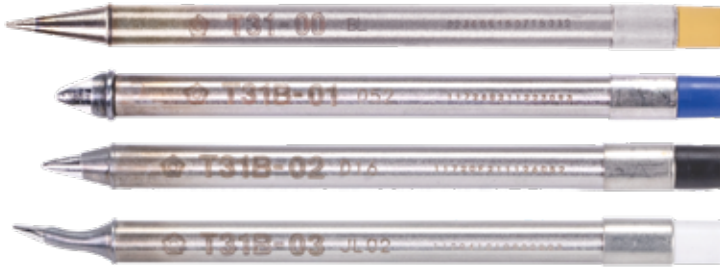
The FX1001-51 Standard Handpiece is included with the **HAKKO FX100-04**, see page 4.





# T31 SERIES TIPS

The **T31 Tips** can be easily identified by a distinctive colored connector end which represents the temperature series of each tip.  
 Note: Not all tips available in every temperature series.



- xx = 00 = 895°F / 480°C
- xx = 01 = 840°F / 450°C
- xx = 02 = 750°F / 400°C
- xx = 03 = 660°F / 350°C

## T31 SERIES TIPS FOR USE WITH FX-1001

<b>T31-xxBC1</b> 	<b>T31-xxBC28</b> 	<b>T31-xxBL</b> 	<b>T31-xxSBL</b> 
<b>T31B-xxD08</b> 	<b>T31-xxWD08</b> 	<b>T31B-xxD16</b> 	<b>T31B-xxD24</b> 
<b>T31B-xxD52</b> 	<b>T31-xxI</b> 	<b>T31B-xxIL</b> 	<b>T31-xxLI</b> 
<b>T31-xxJ02</b> 	<b>T31B-xxJL02</b> 	<b>T31B-xxJS02</b> 	<b>T31-xxJD14</b> 
<b>T31-xxJD17</b> 	<b>T31-xx1601</b> 	<p>For more T31 Series Tips information Scan QR Code.</p>	
<b>T31-xxKU</b> 	<b>T31-xx1401 Spatula 10.4</b> 	<b>T31-xx1402 Spatula 15.7</b> 	

# FX-1002

## MICRO SOLDERING IRON



For more information  
Scan QR Code.

The **FX-1002 Micro Soldering Iron** works with the FX-100 Soldering System. The power and performance of induction heating can now be felt with the FX-1002 micro handpiece and T35 series tips. By reducing the size of the tip and handpiece, the FX-1002 allows operators to work under a microscope for micro soldering applications. *\*Tips Sold Separately.*



### FEATURES & BENEFITS

- The FX-100 Micro Solution!
- Same great power and performance felt with induction heating
- Quick-change T35 Series tips
- Conversion Kit Available (FX1002-84)
- Great for working under microscopes
- Sleep function that engages when the handpiece is placed in the holder



### SPECIFICATIONS For Handpiece Only Part No. FX1002-83

Series Tips	T35-02: 750°F (400°C), T35-03: 660°F (350°C)
Type of Station	HAKKO Induction Heating Soldering Station
Tip to Ground Resistance	<2 Ω
Tip to Ground Potential	<2 mV
Cord Length	1.3 m (4.3 ft)
Total Length*	130 mm (5.1 in)



### CONTENTS For Part No. FX1002-84 (Complete Kit w/ Handpiece & Iron Holder)

Part No.	Description
FX1002-83	Handpiece only
FH800-52BY	Iron holder + brass wire & sponge
B5179	Heat resistant sleeve - yellow color (installed)
B5180	Heat resistant sleeve - green color
B2300	Heat resistant pad
N/A	Instructional manual

**IRON HOLDER**  
w/ Brass Wire & Sponge  
P/N: FH800-52BY

**HEAT RESISTANT PAD**  
P/N: B2300



**HANDPIECE ONLY**  
P/N: FX1002-83

**HEAT RESISTANT ANTIBACTERIAL SLEEVES**  
P/N: B5179 (Installed) & B5180

### FX1002-84 MICRO SOLDERING IRON KIT

Includes everything shown in picture.

The FX1002-83 Micro Handpiece is used with the **HAKKO FX-100\***

*\*Sold Separately*



### T35 TIPS FOR USE WITH FX-1002

T35-xxD06	T35-xxD1	T35-xxKU	T35-xxI	T35-xxJ



- xx = 02 = 750°F / 400°C
- xx = 03 = 660°F / 350°C



For more information Scan QR Code.



# FX-1003

## MICRO REWORK TWEEZERS

The **FX-1003\* Micro Tweezers** work with the HAKKO FX-100 Induction Heating Soldering Station, delivering the same great power and performance felt with induction heating. With the ultra fine T38 tip shapes available in TWO different temperature series (750°F & 660°F), it will transform the way you rework. *\*Tips Sold Separately.*

**FEATURES & BENEFITS**

- 4 types of tip alignment are possible:  
-Vertical: ±1mm, Horizontal: 10mm, Forward: ±1.5mm, Angle: ±200 deg.
- The handpiece is designed with an ergonomic shape for comfort and is ESD safe
- The holder can store 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 Handpiece Only Part No. FX1003-83

Series Tips	T38-02: 750°F (400°C), T38-03: 660°F (350°C)
Type of Station	HAKKO Induction Heating Soldering Station
Tip to Ground Resistance	<2 Ω
Tip to Ground Potential	<2 mV
Cord Length	1.3 m (4.3 ft)
Total Length*	130 mm (5.1 in)

**CONTENTS** For Part No. FX1003-84 (Complete Kit w/ Micro Tweezers & Holder)

Part No.	Description
FX1003-83 FH800-84BY	FX-1003 Handpiece Only Holder + Brass Wire & Sponge

**FX1003-84**  
**MICRO REWORK TWEEZER KIT**  
Includes everything shown in picture.



The FX-1003 Micro Tweezers are used with the **HAKKO FX-100\***

*\*Sold Separately*



For more information **Scan QR Code.**





# Micro and Precise Tip Lineup for a Variety of Rework

The wide selection of T38 tip shapes support rework of components as small as 01005.



## T38 TIPS (SET OF 2) FOR USE WITH FX-1003

T38-02 Series 750 °F

T38-03 Series 660 °F



**Shape I**

**T38-02I**  
**T38-03I**

For 01005 component

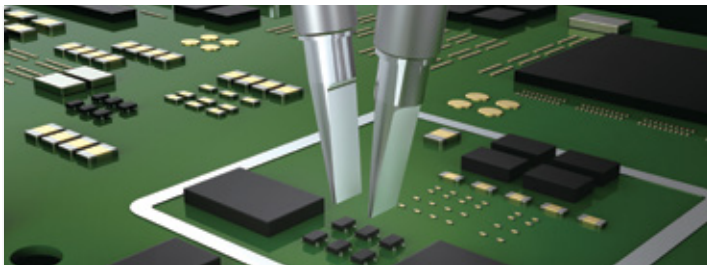
**T38-02IS**  
**T38-03IS**

**Shape J**

**T38-02J**  
**T38-03J**

For 01005 component

**T38-02JS**  
**T38-03JS**



**Shape L**

**T38-02L1**  
**T38-03L1**

**T38-02L2**  
**T38-03L2**

**Shape K**

**T38-02K**  
**T38-03K**

For more T38 Series Tips information Scan QR Code.



## 4 ADJUSTABLE TIP ALIGNMENTS



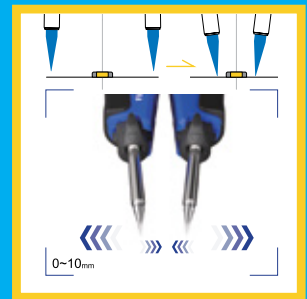
### VERTICAL

Perfectly adjusts the tips for precision accuracy.



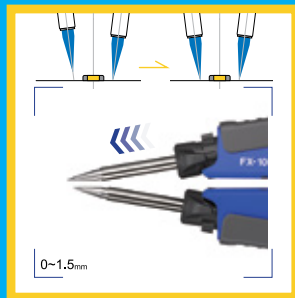
### HORIZONTAL

This allows for larger and much smaller components to be removed with a width range of 10mm down to 0.



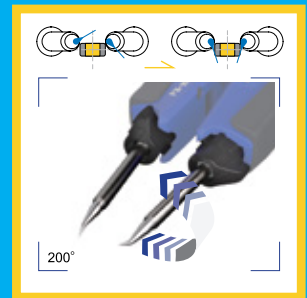
### FORWARD

Perfectly adjusts the tips for precision accuracy.



### ANGLE

Rotating the tips give the operator better control of how they'd like to remove the components, catering to preference.



The FX-1003 Micro Tweezers sports an impressive **line up of tip alignment adjustments in order** to secure the right contact for micro components.



# FX-100 SOLDERING STATION ACCESSORIES



FX-100 STACKING STAND\*  
P/N: 777-208

FX-1001\*

Expand your workbench space with the **Stacking Stand\*** designed perfectly for the FX-100 Soldering Station

\*Stacking Stand & Tips Sold Separately

# HAKKO COLLECTION

Backed by the Quality, Reliability and Power  
You've Come to Expect from HAKKO.



Introducing a collection of intuitive content that brings you closer to all the action with our Eye on Hakko, Hakko Fights, Hakko Tips, and Hakko Donates series. Join our **Hakko Tips** E-Newsletter as we cover new products, tips, and industry wide information, involving you in the process as much as possible. **Eye on Hakko** takes you on a journey of entertainment and information through our videos, webinars, and social media, bringing you bigger and better content. Help us support the research into healthcare with **Hakko Fights**, our way to provide hope and support to those in need to help them thrive. Give back with **Hakko Donates** as we get involved in giving back to the communities that make us great. All this backed by the quality, reliability, and power you've come to expect from Hakko.



Create. Unite. Inspire.

## EYE ON HAKKO

Reaching out and connecting the world through entertainment and information. American Hakko Products, Inc. hopes to **unite** and **inspire** a generation of individuals that can **create** a better tomorrow. Eye on Hakko is the realization of that dream, building a bridge between Hakko and you.



Hope. Support. Thrive.

## HAKKO FIGHTS

American Hakko Products, Inc. works with foundations that are dedicated to making a difference in individuals' lives through health care. The enthusiasm and dedication shown from these institutions is what fuels us in the fight against disease and illness. With the goal to passionately create an environment where we can give **hope**, and **support**, and help lives **thrive**.



Grow. Connect. Inform.

## HAKKO TIPS

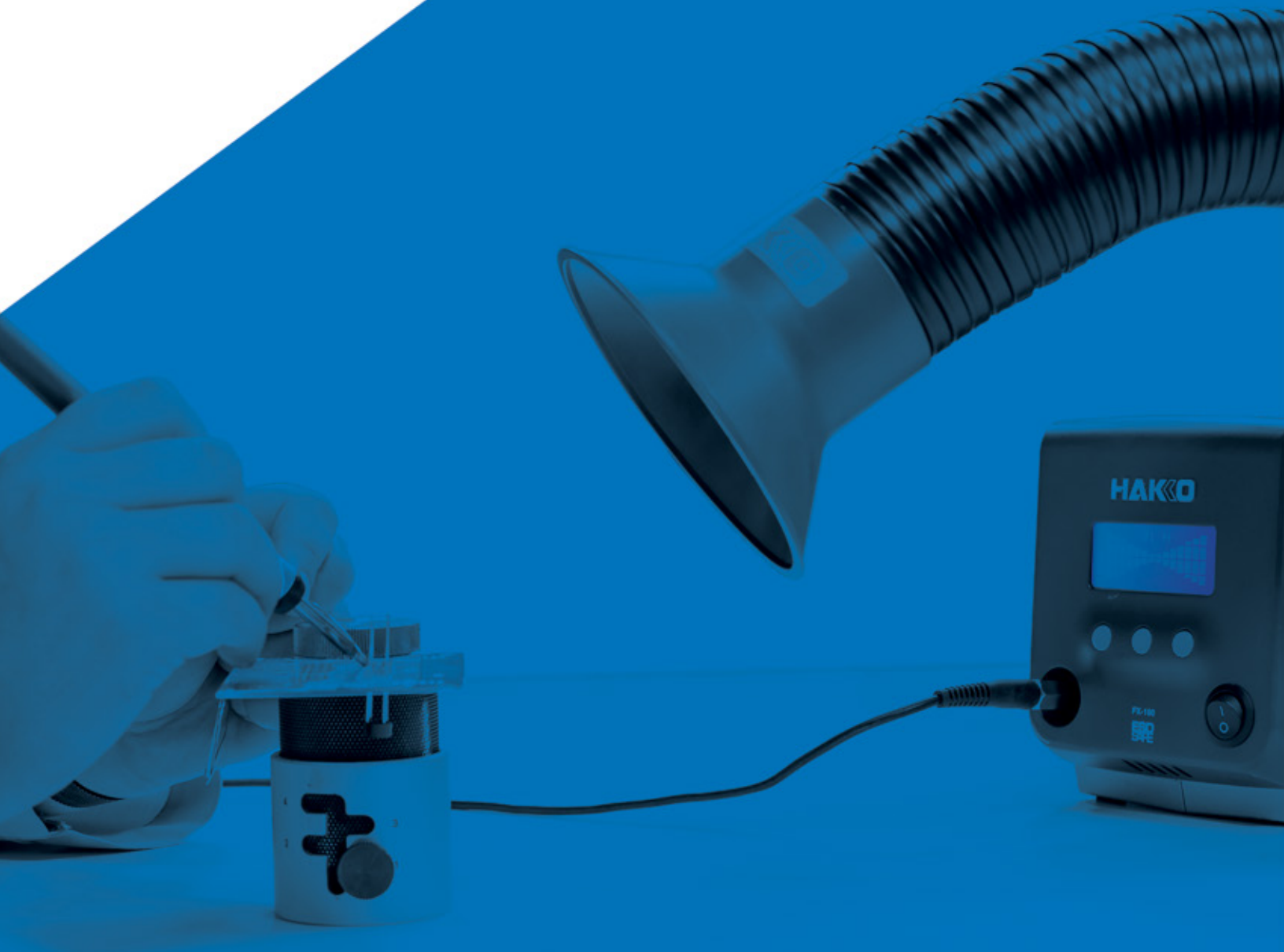
Continually striving to put a smile on our customers' faces has always been our number one priority. You can hear it when you call into our customer service and you can see it on our products. Our process for creating a better product always starts with the customer and we'd like to involve them in on that process as much as possible. The Hakko Tips E-Newsletter is our way to **connect** them to that experience, to **inform** them, and let them **grow** with us.



Embrace. Empower. Future.

## HAKKO DONATES

American Hakko Products, Inc. with the mission of building a better **future** for younger generations, is dedicated to the community, universities and schools whose main focus is on engineering where people come from all walks of life to build something together. Over the years we've prided ourselves in assisting in this endeavor by inspiring and **empowering** the next generation to **embrace** their skills of soldering using Hakko products.



## American Hakko Products, Inc.

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