



**HAKKO FX-100** ESD SAFE  
SOLDERING STATION

# Raising the world standard in induction heating soldering irons



Compatible with T31 Series

## Replacement tips

Part numbers

T31-XX BC1

450°C ▶ 01 Indicates tip shape and size  
400°C ▶ 02  
350°C ▶ 03

Unlike conventional temperature setting systems, every tip in the lineup is fixed at either 350°C, 400°C or 450°C.

This makes managing the set temperature of the soldering iron easier than ever.

Unit: mm

T31-01BC1 / T31-02BC1 / T31-03BC1 Shape 1BC 	T31-01BC28 / T31-02BC28 / T31-03BC28 Shape 2.8BC 	T31-01BL / T31-02BL / T31-03BL Shape BL 
T31-01D08 / T31-02D08 / T31-03D08 Shape 0.8D 	T31-01D16 / T31-02D16 / T31-03D16 Shape 1.6D 	T31-01D24 / T31-02D24 / T31-03D24 Shape 2.4D 
T31-01D52 / T31-02D52 / T31-03D52 Shape 5.2D 	T31-01I / T31-02I / T31-03I Shape I 	T31-01IL / T31-02IL / T31-03IL Shape IL 
T31-01J02 / T31-02J02 / T31-03J02 Shape 0.2RSB 	T31-01JL02 / T31-02JL02 / T31-03JL02 Shape 0.2RLB 	T31-01JS02 / T31-02JS02 / T31-03JS02 Shape 0.2RSSB 
T31-01KU / T31-02KU / T31-03KU Shape KU 	T31-01SBL / T31-02SBL / T31-03SBL Shape SBL 	T31-01WD08 / T31-02WD08 / T31-03WD08 Shape 0.8WD 

## FX-100

Packing List



Station, Handpiece (FX-1001), Heat resistant pad, Power cord, Sleeve (green), Sleeve (gray), Iron holder, Instruction manual

Specifications

Power consumption	28 W (85 W)
Tip temperature	T31-01 Series: 450°C T31-02 Series: 400°C T31-03 Series: 350°C
Temperature stability	±1.1°C
<b>Station</b>	
Output power	50 W
Output frequency	13.56 MHz
Dimensions	127(W) × 150(H) × 167(D)mm
Weight	3 kg
<b>Soldering Iron</b>	
Tip to ground resistance	<2 Ω
Tip to ground potential	<2 mV
Heating element	IH (Induction heating)
Cord length	1.3 m
Total length (w/o cord)	190 mm with 2.4D tip for 350°C or 400°C 193 mm with 2.4D tip for 450°C
Weight (w/o cord)	31 g with 2.4D tip for 400°C



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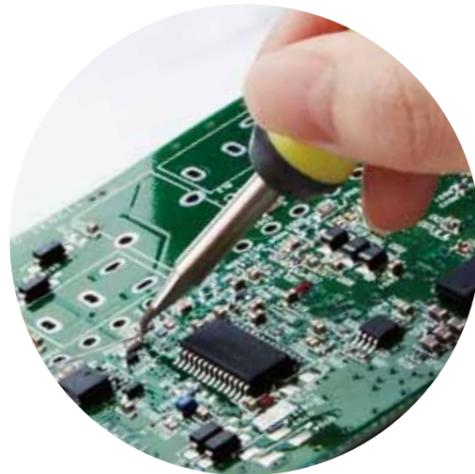
# A next-generation IH soldering iron

Featuring a small tip that packs enough heat power to change the face of high heat capacity, high-density micro-soldering

Unlike resistance-based heating systems that control temperature by turning heater power on and off via a sensor, the tip itself produces heat and maintains a constant temperature in induction heating system. This system comes into its own when using a small tip to solder spots requiring a lot of power.

## Sleep/auto shutoff function

Safe design ensures soldering iron switches to sleep mode or auto shutoff mode when placed in iron holder.



## Design emphasizes both functionality and workability

2013 Good Design Award winner.  
The FX-100 enables smooth soldering of difficult areas thanks to a thin, light cord and responsive grip.

# Large LCD displays information for easy operation and management

## ● ● ● Simple three-button operation

The station's three buttons can be used to switch between modes. The function of each button is displayed on the LCD screen for easy operation.



```
PROFILE 1
S:NO.001
U:HAKKO TARO
S:SN63 PB37
```

### Profile

Lets you register station name, user names, solder types, for easier management and status confirmation.

```
TIP LOADS
approx.
000657 Points
<RESET> <OK>
```

### Tip Loads

Lets you track tip wear by automatically recording the number of soldering operations\*.  
\*This feature is only intended to serve as a general guide.

```
TIP TIME
0013 hours
<RESET> <OK>
```

### Tip Time

Counts the length of time that the tip has been powered on. If you set a time with the alert function, the system will notify you when it is time to replace the tip.

```
<01>
N
*****
```

### Tip Type

Displays the temperature type of tip currently in use.

# Induction heating for excellent thermal efficiency

The unique Induction Heating (IH) system used by the HAKKO FX-100, which automatically heats the tips and rapidly returns it to the fixed temperature whenever a load is applied to the tip, includes HAKKO's proprietary "Power Assist" function.

This function provides less temperature drop and improved thermal recovery when soldering. And if you need a bit more power for those challenging solder joints, just select "Boost Mode".

\*Power Assist is HAKKO's proprietary function that monitors current, detects drops in tip temperature, and increases power to assist thermal recovery characteristics.



\*Rubber cleaner shown in photo is an optional part.