

Please, see inside for details.

The advance of applications expands the possibility of HAKKO's IH soldering station and makes a wide range of soldering feasible, from high-density P.W.B. to fine works under a microscope.



Soldering Iron

Station Type
IH Soldering Station
& IH Micro Soldering Iron



Soldering Iron

Station Type
IH Micro Hot Tweezers

HAKKO FX-100 ESD SAFE
SOLDERING STATION

HAKKO FX-1002 ESD SAFE
SOLDERING IRON

HAKKO FX-1003 ESD SAFE
MICRO TWEEZERS

The World's Best Class IH Soldering Station for Soldering on High-Density P.W.B. with High Heat Capacity, and on Micro Component

The World's Smallest Class "IH Micro Hot Tweezers" that Makes Rework on 0402 Easy and Comfortable



IH Soldering Station FX-100



For soldering on high-density P.W.B. Soldering Iron **FX-1001**

For soldering on 0402 component Micro Soldering Iron **FX-1002** (Option)



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HAKKO's IH Soldering Station Provides the World Best Class Thermal Performance.

The excellent thermal performance is achieved by the principle of IH (High-Frequency Induction Heating) that directly heats a soldering tip. The thermal power that does not decline even with a smaller tip is very effective in micro soldering.



Features of IH Technology

- No Temperature Setting Required
- No Calibration Required
- No Overshoot

Tip temperature is fixed by tip series. No setting temperature is required before use.

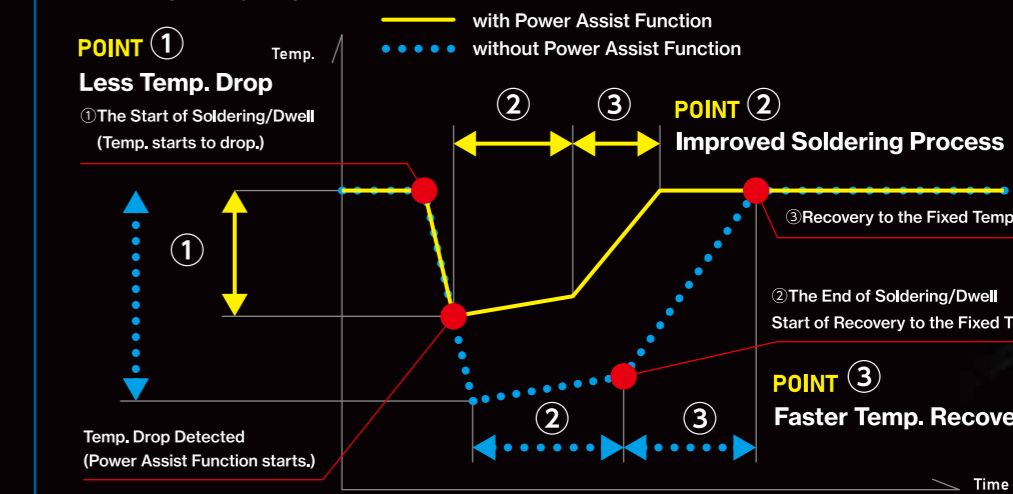
| Temp. | Handpiece | FX-1001 | FX-1002 | FX-1003 |
|-------|-----------|---------------|---------------|---------------|
| 450°C | | T31-01 series | — | — |
| 400°C | | T31-02 series | T35-02 series | T38-02 series |
| 350°C | | T31-03 series | T35-03 series | T38-03 series |

Because there is no heating element, there is no chance of degradation of a heating element, and no calibration is required.

Because tip temperature is fixed by a physical phenomenon, there is no chance of overshoot.

Unique Features of HAKKO's IH Technology PATENTED

"Power Assist Function" makes HAKKO's IH Soldering Station different. By monitoring RF output, the station detects tip temperature drop during the soldering process and then increases the output. This function minimizes tip temperature drop and helps the temperature recover quickly. As a result, it can improve soldering efficiency and quality.



"BOOST Mode" for Extra Power

The mode is to boost tip temperature slightly. It can fill out the slight temperature gap among tips and minimize the individual differences in tip temperature. Also it is useful when some extra power is needed.

FX-1003

Option Micro Hot Tweezers

4 Types of Alignment to Secure the Right Contact of Tips and Micro Components

The right contact of tips and components increases heat transfer, and it improves work efficiency.

Height Adjustment

±1 mm

Width Adjustment

0 to 10 mm

Angle Adjustment

200°

Both left and right are adjustable.

Length Adjustment

0 to 1.5 mm

Both left and right are adjustable.

Ergonomic Design for Comfortable Operation

The handpiece with the compact and asymmetric design with heat-resistant covers fits the hand, gives better stability, helps reduce the burden of operation, and supports precise and accurate works.

Antibacterial

Compact / Asymmetric design

Micro and Precise Tip Lineup for a Variety of Rework

The lineup of T38 series tips has a wider range than the tips for conventional tweezers and has tips to rework on 0402 components.

T38 Series Tips (A set of 2)

T38-02 Series 400°C
T38-03 Series 350°C

New Addition Newly Added Shapes from T38 Series Tips

| | | |
|-------------------------------|-------------------------------|-------------------------------|
| Shape I T38-02I T38-03I | Shape J T38-02J T38-03J | Shape K T38-02K T38-03K |
|-------------------------------|-------------------------------|-------------------------------|

Unit: mm

Multifunctional Iron Holder for Convenience and Comfort

Iron Holder with the AUTO SLEEP / AUTO SHUTOFF Function

Tip Removal without a Heat Resistant Pad

Tip Storing Pocket (Up to 4 sets)

For your safety, please do not remove a tip while it is hot.

The New Cleaning Tool to Clean Entire Micro Tips Just by Inserting Them.

Cleaning Brush Part No. A5065

Packing List

- Part No. FX1003-81 Handpiece
- Conversion kit Part No. FX1003-82 Handpiece, Iron holder (with cleaning sponge and brush), Instruction manual

Specifications

| | |
|--------------------------|--|
| Temperature range | T38-02 Series : 400°C T38-03 Series : 350°C |
| Tip to ground resistance | <2 Ω |
| Tip to ground potential | <2 mV |
| Heating element | IH (High-Frequency Induction Heating) |
| Cord length | 1.3 m |
| Total length (w/o cord) | 130 mm (with T38-02L tip) |
| Weight (w/o cord) | 32 g (with T38-02L tip) |

FX-100

Option IH Soldering Station

The IH Soldering Station Designed for Intuitive Operation with the Interactive Interface and 3 Buttons.

FX-100 makes the operation of the station stress-free by showing various information and operation menus on its display. It also shows the output power graph in real-time of the soldering process. FX-100 can record information such as "TIP TIME" and "TIP LOADS". Such information can be the reference for the timing of tip replacement. The compact body design make the station handy.

TIP TIME
0013 hours
<RESET> <OK>

TIP LOADS
approx. 000657 points
<RESET> <OK>

"TIP TIME" is the cumulative running time on the tip. Alert can be set for the specified tip usage time for scheduled tip replacement.

"TIP LOADS" is the number of estimated soldering points. It can be an indication of the tip condition.

FX-1001

Standard Soldering Iron

The Power of IH Making Difference in Soldering on High-Density P.W.B.

The iron is built with the user-friendly grip and cord for better operability. The wide lineup of T31 series tips supports a variety of works.

Compatible Tips / T31 Series Tips Unit: mm

| | |
|------------------|------|
| T31-01 Series | 71.5 |
| T31-02/03 Series | 68.5 |

T31-XXD08 Indicates tips shape and size

Fixed Temperature 450°C : T31-01 Series
400°C : T31-02 Series
350°C : T31-03 Series

Antibacterial Sleeve

3 different colors of the sleeve can be used depending on tip shapes, solder alloys, works, and other conditions.

FX-1002

Option Micro Soldering Iron

Ideal for Soldering on Micro Components Under a Microscope

The slim and light grip design for excellent operability helps precise and micro works. The power that does not decline even with very fine and small tips is ideal for soldering on micro components.

Antibacterial Sleeve

2 different colors of the sleeve can be used depending on tip shapes, solder alloys, works, and other conditions.

Packing List

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

Model No. FX-100

Specifications

| | |
|--------------------------|---|
| Power consumption | 28 W (85 W) |
| Temperature range | T31-01 Series : 450°C T31-02 Series : 400°C T31-03 Series : 350°C |
| Temperature stability | ± 1.1°C |
| Station | |
| Output power | 50 W |
| Output frequency | 13.56 MHz |
| Dimensions | 127(W) × 150(H) × 167(D) mm |
| Weight | 3 kg |
| Soldering Iron (FX-1001) | |
| Tip to ground resistance | <2 Ω |
| Tip to ground potential | <2 mV |
| Heating element | IH (High-Frequency Induction Heating) |
| Cord length | 1.3 m |
| Total length (w/o cord) | 190 mm (with T31-02D24 tip or T31-03D24 tip) |
| Weight (w/o cord) | 31 g (with T31-02D24 tip) |

T31 Series Tips

T31-01 Series 450°C
T31-02 Series 400°C
T31-03 Series 350°C

| | | | |
|--|--|---|--|
| Shape B T31-01BL T31-02BL T31-03BL | T31-01SBL T31-02SBL T31-03SBL | Shape BC T31-01BC1 T31-02BC1 T31-03BC1 | T31-01BC28 T31-02BC28 T31-03BC28 |
| Shape D T31-01D08 T31-02D08 T31-03D08 | T31-01WD08 T31-02WD08 T31-03WD08 | T31-01D16 T31-02D16 T31-03D16 | T31-01D24 T31-02D24 T31-03D24 |
| Shape E T31-01E T31-02E T31-03E | T31-01EL T31-02EL T31-03EL | Shape J T31-01J02 T31-02J02 T31-03J02 | T31-01JL02 T31-02JL02 T31-03JL02 |
| Shape K T31-01KU T31-02KU T31-03KU | | | T31-01JS02 T31-02JS02 T31-03JS02 |

Unit: mm

T35 Series Tips

T31-02 Series 400°C
T31-03 Series 350°C

Packing List

- Part No. FX1002-81 Handpiece
- Conversion kit Part No. FX1002-82 Handpiece, Sleeve (green), Iron holder (with cleaning sponge and wire), Heat resistant pad, Instruction manual

Specifications

| | |
|--------------------------|---|
| Temperature range | T35-02 Series : 400°C / T35-03 Series : 350°C |
| Tip to ground resistance | <2 Ω |
| Tip to ground potential | <2 mV |
| Heating element | IH (High-Frequency Induction Heating) |
| Cord length | 1.3 m |
| Total length (w/o cord) | 166 mm (with T35-02D1 tip) |
| Weight (w/o cord) | 21 g (with T35-02D1 tip) |