

Products

Soldering iron/Station type

HAKKO **FX-1002** **ESD SAFE**



LEAD
FREE

ESD
SAFE

RoHS

Micro soldering iron for induction heating system

Temperature series: 350°C and 400°C

Compatible with HAKKO FX-100, IH soldering station

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Features

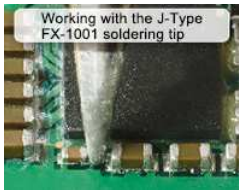
An IH (High-Frequency Induction Heating) micro-soldering iron for the T35 Series of soldering tips

Especially suited for soldering microchips and other chips with narrow pin pitches under a microscope

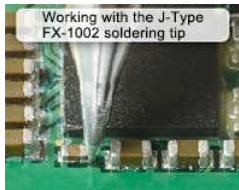
FX-1002 and T35 series tip make it much easier to solder on microchips in very fine pitch (than [FX-1001](#) and T31).

T35 is designed to obtain not only very fine shape but also sufficient thermal capacity to delivery stable soldering quality on damage sensitive products.

Working with the J-Type
FX-1001 soldering tip



Working with the J-Type
FX-1002 soldering tip



With the FX-1001 soldering tip, there is a tendency to interfere with the pin on the right, but now using the FX-1002, work can be done without interference to the surrounding pins.

Connectable Station
[HAKKO FX-100](#)
(Single iron)

Secures field of vision under a microscope with $\Phi 3$ mm soldering tip



2 temperature series, 350°C and 400°C

Unlike conventional temperature control system, IH (Induction Heating) system provides fixed temperatures.

Within T35 series, tips shapes are exactly the same over the different temperature series.

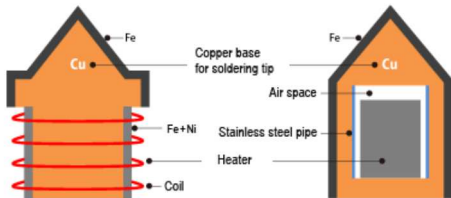
T35 - **XX** **D06** • Indicates tip shape and size as usual.

Temperature [350°C: T35-03 Series](#)

series [400°C: T35-02 Series](#)

What is IH (High-Frequency Induction Heating)?

Unlike resistance-based heating systems that control temperature by turning heater power on and off via a sensor, with an induction heating system the soldering tip itself produces heat and maintains a constant temperature, enabling a small soldering tip to handle high thermal capacity, high-density substrates.



IH soldering iron

- The heater is integrated with the unit, enabling direct heating of the soldering tip.
- Physical phenomena of skin effect and Curie temperature are utilized, achieving high temperature accuracy and excellent thermal responsiveness.

Ceramic heater soldering iron

- Independent from heater so the soldering tip heats indirectly.
- A time lag is generated because the sensor detects the temperature and then feeds it back to the station.

Connectable Station

Part No.		Applicable Stations
<p>Must buy as an option</p>	<div data-bbox="387 612 622 782" data-label="Image"> </div> <p data-bbox="456 783 553 805">FX1002-81</p> <div data-bbox="387 822 622 991" data-label="Image"> </div> <p data-bbox="443 993 567 1037">FX1002-82 conversion kit</p>	<div data-bbox="712 709 912 879" data-label="Image"> </div> <p data-bbox="746 887 888 956">HAKKO FX-100 IH soldering iron (Single iron)</p>