

## Products

Desoldering / Rework/SMD rework system /Jig

**HAKKO** **FR-702** **ESD SAFE**  
REPAIR SYSTEM



Powerful rework stations that contain every function needed for rework

Safer and more secure rework operation

With upgraded all the applications

4-in-1 unit for space saving

Compatible with N<sub>2</sub> system by purchasing [N<sub>2</sub> iron \(FX-8802\)](#) as an optional accessory

Available in:



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[> Catalog](#)

[> Manuals / SDS / Engineering documents](#)

Features

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[Soldering Tip / Nozzle](#)

[Replacement Parts / Option](#)

[Maintenance](#)

### Features

**4 Port Rework Station with 140W desoldering gun, M-type soldering iron and 670W hot air**

**It handles various soldering, desoldering and reworking by choosing proper handpieces from a selection of 7 types.**

Other than the standard handpieces of 140W desoldering gun, M-type soldering iron and high power & large volume hot air, there are 4 more applications. Consumed tip nozzle and heating element can be replaced individually, and running cost is much lower than the composite type.



Desoldering gun  
HAKKO FR-4101

**140W**

With  $\Phi$ 1.0mm  
S type nozzle



- 140 W high powers enable perfect desoldering for the components on multi-layer PWB.
- A wide selection of nozzle, with the addition of new types, is available for a variety of desoldering works.

[View the details](#)

N61 series nozzles

Soldering iron M type  
HAKKO FX-8801

**65W**

With B tip



- Takes T18 tip series with improved thermal conductivity

[View the details](#)

T19 series tips

Hot air handpiece

**670W**

comes with  
a single nozzle ( $\Phi$ 4 mm)



- It enables quick removal of components with high power and large volume hot air for a various kinds of rework.
- Vacuum function with indicator makes it possible to remove components easily and safely.

[View the details](#)

N51 series nozzles

Standard

Soldering iron L type  
HAKKO FX-8805

**65W**

With B tip

N2 Soldering iron  
HAKKO FX-8802

**65W**

With B tip

One-hand Manual-solder-  
feed iron  
HAKKO FX-8803

**65W**

With 3CF tip

SMD hot tweezer  
HAKKO FX-8804

**65W**

With Chip  
2L tips

Option



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T18 series tips

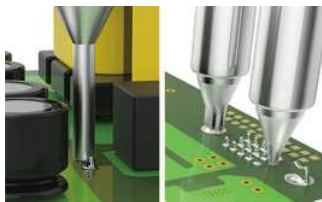
950/FX-8804 series tips

### High-power Desoldering gun HAKKO FR-4101

Increasing the power to 140 W from 50 W of our previous models (HAKKO 474 · 475), it can make it easy to desolder on multi-layer PWB which was never an easy job, and it can also shorten the process time.

A wide selection of nozzle, with the addition of new types, is available for a variety of desoldering works.

- Long type nozzles for narrow space
- Oval shape nozzles for flat terminals
- SS type nozzles for micro land-patterns



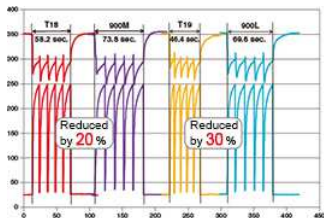
[Click here for more information about HAKKO FR-410.](#)

### Soldering iron HAKKO FX-8801/FX-8805

Thermal conductivity has been increased by reviewing external configuration and internal structure of 900 tip series.

Now T18 and T19 tip series are selectable depend on work environment.

[Click here for more information about HAKKO FX-8801/FX-8805](#)



### Hot air handpiece

670 W high power and large volume hot air improves work efficiency.

- High power and large volume hot air for quick removal of components

**Hottest  
in hot air series**

Temperature range

**50 to 600 °C**

**5 times  
maximum airflow** \*1

Air flow

**5 to 115** \*2 L/min.

\*1 Compared to HAKKO previous model

\*2 Varies depending on nozzle shape

• **New type of nozzles for improvement of temperature characteristics**

The new nozzle improves work efficiency with uniform heating by hot air convection inside the nozzle which is created due to vents on the nozzle top. (only with BGA nozzles)



• **Vacuum pickup function**

The vacuum pick up function is to pick up a component with a suction pad and vacuum. It will pick a component only after the hot air melts solder joints. This can avoid an error to peel off the land by removing a component with excessive force.



• **Pickup indicator lets you know the pickup timing at a glance!**

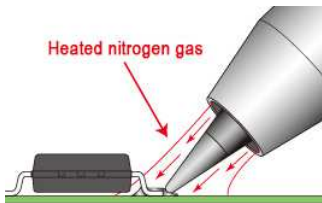
By pre-setting pickup function, a component can be picked up automatically when solder is melted. Then, the indication comes up and the moment of picking up will be visible. Even a component and solder joints cannot be seen as covered by a nozzle, easy and safe picking up is possible.



**N2 soldering iron HAKKO FX-8802**

The N<sub>2</sub> gas runs into the nozzle assembly and covers over the soldering tip. It prevents the soldering tip and the heater from being readily oxidized and performs great role as a preheating. Two effects of N<sub>2</sub> system, preventing oxidation or preheating effect, can improve soldering defects such as bridging, protrusion icicle, insufficient solder filling in PTH, etc.

T18 tips series are compatible with this application.



[Click here for more information about HAKKO FX-8802.](#)

[N2 system required equipments](#)

#### **One-hand Manual-solder-feed iron HAKKO FX-8803**

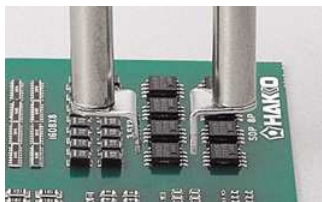
- Solder and feed with one hand
- Feed a set amount of solder with one hand
- Manual feed system is perfect for cellular manufacturing.
- Soldering work can be conducted at the pace of the operator.
- T18 tips series are compatible with this application.



[Click here for more information about HAKKO FX-8803.](#)

#### **SMD Hot Tweezer HAKKO FX-8804**

- Direct heating—less influence upon surrounding components on crowded boards.
- Easily removes SMD chips and flat packages up to 25mm.
- The collet allows easy replacement and alignment of the tips.



[Click here for more information about HAKKO FX-8804.](#)