

HAKKO MODEL **FM-2022**
PARALLEL REMOVER

ESD SAFE

HAKKO MODEL **FM-2023**
MINI PARALLEL REMOVER

ESD SAFE

ESD SAFE



No. MODEL FM-2022



No. MODEL FM-2023

- Unique parallel movement of tips allows easy removal.
- Direct heating prevents damage to neighboring sensitive components comparing with hot air.

FM-2022:-

- Can be used for chips and flat packages up to 25mm in size.

FM-2023:-

- Standard or reverse tweezers action can be selected with a switch lever.
- Equipped with a small ergonomic grip.

*MODEL FM-202, FM-2023 must be used with MODEL FM-202. Please refer to page 6 about MODEL FM-202.

Specifications

Model No.	FM-2022	FM-2023
Power Consumption	140W (24V)	
Temperature Range	200-400 °C	
Tip to Ground Resistance	< 2	
Tip to Ground Potential	< 2mV	
Cord	1.2m	
Standard Tip*	-	T9-I
Total Length (w/o cord & tip)	110mm	75mm
Weight (w/o cord)	64g with SOP 25L tip	37g with I tip

*Tips for MODEL FM-2022 are optional part.

Packing List

Model Name	Contents
HAKKO MODEL FM-2022	Parallel remover (MODEL FM-2022)1
	Holder clip1
	Heat resistant pad1
	Cleaning sponge1
HAKKO MODEL FM-2023	Mini parallel remover (MODEL FM-2023)1
	Holder clip1
	Component bed1
	Tip ID number key1
	Heat resistant pad1
	Cleaning sponge1

Replacement Tips

Please refer to page 9.

Set Up



*The MODEL FM-2022 and FM-2023 are not included with the MODEL FM-202 station.