

## Products & Applications

### Precision Tweezer, Soldering and Rework System

The Precision Tweezer has been ergonomically designed to be lightweight and easy to use for removing even the smallest of discrete components, such as 0201 packages. The Precision Tweezer has a double sided pivot for "true tweezer" action and a dual position pitch adjustment to help the operator target the component to skillfully complete the application.



MFR-PTZ PRECISION TWEEZER, SOLDERING & REWORK SYSTEM	
Part No.	Description
MFR-PTZ	Precision Tweezer, Soldering and Rework System
INCLUDES	
MFR-PS1K	Two Port Universal Voltage Power Supply
MFR-HPT	Precision Tweezer Hand-piece
MFR-WSPT	Tweezer Workstand
MFR-HSR	Cartridge Solder / Rework Hand-piece
MFR-WSSR	Soldering Workstand

*Contents subject to change without notice"*

### Precision Tweezer Cartridges

#### Technical Specifications

MFR-PTZ, MFR-SRC, MFR-PST, MFR-STZ

**Ambient Operating Temperature:**10- 40°C

**Maximum Enclosure Temperature:**55°C

**Input Line Voltage:**100- 240 VAC, grounded circuit

**Input Line Frequency:**50/60 Hz

**Power Consumption:**65 Watts max.

**Output Power:**

50 Watts max. at 22°C ambient temperature

**Output Frequency:**450 KHz

**Power Cord 3-Wire:**183cm (18/3") SJT

**Power Supply Dimensions w x d x h:**

122mm x 200mm x 152.5mm (4.8" x 8" x 6")

**Agency Tested Per:**IEC 61000-6-1,EC 61000-6-3 and

UL499, FCC CFR Part 15

**Tip-to-Ground Potential:**< 2mV

**Tip-to-Ground Resistance:**< 2 ohms

**Idle Temperature Stability:**± 1.1°C in still air

**Hand-piece Cable Length:**

L=71cm (48"), burn proof, ESD safe

**Connector:**8-pin power connector

**Workstand Dimensions w x d x h:**

100 mm x 200 mm x 100 mm (4" x 8" x 4")

	<p><b>TFP-BLP1</b> Tweezer Cartridge, Blade 1.0mm (0.04") Pair</p>
	<p><b>TFP-BLP2</b> Tweezer Cartridge, Blade 2.0mm (0.08") Pair</p>
	<p><b>TFP-CNP1</b> Tweezer Cartridge, Conical 0.4mm (.015") Pair</p>

## Standard Tweezer Cartridges

BLADE TIPS	
	<p><b>TFP-BLH40</b> Heavy Duty Tweezer Pair A=6.35mm (.25")</p>
	<p><b>TFP-BLH50</b> Heavy Duty Tweezer Pair A=16mm (.62")</p>
	<p><b>TFP-BLH60</b> Heavy Duty Tweezer Pair A=20.5mm (.81")</p>
	<p><b>TFP-BLH70</b> Heavy Duty Tweezer Pair A=28mm (1.1")</p>

To order specialty versions of the Precision Tweezer Cartridges replace the "F" in the part number with the appropriate letter designate for your application when ordering:

**T** = Temperature Sensitive **C** = Ceramic or Heavy Load

## Soldering Tip Heater Options

With hand soldering, the task is to make a quality solder connection, without damaging the substrate and without negatively impacting throughput. All of the standard MFR Series power tips & rework cartridges are designed for use with glass fiber (FR4) PCB substrates. This is denoted by the second letter in the part number: "F". For example: **SFP-CH10**, **DFP-CN3**, and **SFV-CNL10**.

However, some specialist applications require working with thermally demanding or temperature sensitive substrates, such as ceramic hybrids or flexible circuits. OK International has developed specialty heaters that quickly deliver the necessary power, but operate at temperatures that minimize the risk of substrate damage. These are denoted by replacing the "F" in the part number with a "T" for temperature sensitive or a "C" for demanding loads. Please contact your local representative for information and availability of specialty tip heaters. For example: **STP-CH10** and **DCP-CN3**.

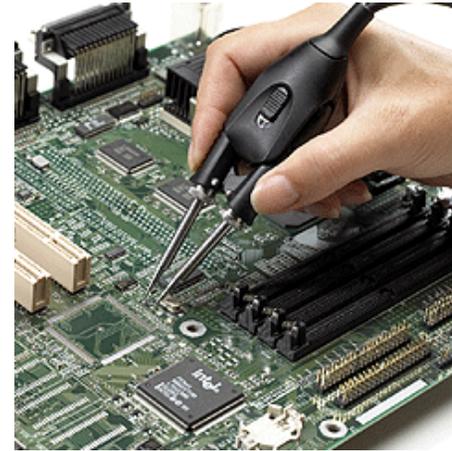
**F** = Standard FR4 Substrate  
**T** = Temperature Sensitive  
**C** = Ceramic or Heavy Load



Precision Tweezer

*Dimensions and artwork listed are for indication/guidance only. Numbers have been rounded up.*

*Please contact your local technical support if you require specific technical information.*



Precision Tweezer in Action



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