

Products & Applications

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MFR-1140

Use the precision tweezers to rework SMD components with fine dimension to large blade geometries..

Key Features & Benefits

- SmartHeat® Technology provides exceptional power for high thermal demand applications
- Offers a comprehensive range of tweezer cartridges
- Hand-pieces are ergonomic for operator safety and comfort



MFR-1140 Single output, one precision tweezers hand-piece, workstand

Part No.	Description
MFR-1140	Single output, one precision tweezers hand-piece, workstand
Includes	
MFR-H4-TW	Hand-piece, Tweezers Cartridge
MFR-PS1100	Power Supply, Single Output
MFR-WSPT	Workstand for Tweezers Hand-piece (MFR-H4-TW), Black Cradle (standard)

Contents subject to change without notice"

Technical Specifications

MFR-1110, MFR-1120, MFR-1140, MFR-1160, MFR-1161

- Input Line Voltage / Frequency:** 100- 240 VAC, 50/60 Hz grounded circuit
- Power Consumption:** 65 Watts maximum
- Power Output Maximum:** 60 Watts max. at 22 °C
- Output Frequency:** 450 KHz
- Idle Temperature Stability:** ± 1.1 °C (2 °F)
- Ambient Operating Temperature:** 10- 40 °C (50 °F - 104 °F)
- Maximum Enclosure Temperature:** 55 °C (131 °F)
- Power Cord 3-Wire:** 183cm (18/3") SJT
- Hand-piece Cable Length:** L=122cm (48"), burn resistant, ESD safe
- Hand-piece Connector:** 8-pin circular DIN
- Tip-to-Ground Potential:** < 2mV
- Tip-to-Ground Resistance:** < 2 ohms
- Certification / Marking:** cTUVus, CE
- Power Supply Dimensions w x d x h:** 90mm x 142mm x 197mm (3.5" x 5.6" x 7.8")
- Workstand Dimensions w x d x h:** 100 mm x 200 mm x 100 mm (4" x 8" x 4")
- Surface Resistivity:** 10⁵-10⁹ Ohms

Weight:

- MFR-PS1100:** 2.3 kg (5.05 lbs)
- Hand-piece:** 0.12 kg (0.26 lbs)
- Workstand:** 0.69 kg (1.51 lbs)
- MFR-PS100 w/ hand-piece and workstand:** 3.1 kg (6.84 lbs)

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**.

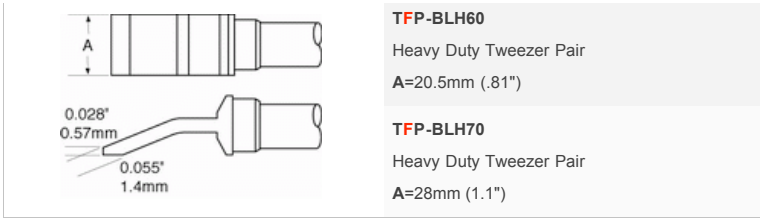
However, some specialist applications require working with thermally demanding or temperature sensitive substrates, such as

Precision Tweezer Cartridges

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

Standard Tweezer Cartridges

BLADE TIPS	
	<p>TFP-BLH40 Heavy Duty Tweezer Pair A=6.35mm (.25")</p>
	<p>TFP-BLH50 Heavy Duty Tweezer Pair A=16mm (.62")</p>



TFP-BLH60
 Heavy Duty Tweezer Pair
A=20.5mm (.81")

TFP-BLH70
 Heavy Duty Tweezer Pair
A=28mm (1.1")

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

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

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.



MFR-1140 in Action



Precision Tweezer in Action

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