





# TMT-9000S

Soldering & Rework Station



## TMT-9000S COMPONENTS

TMT-9000PS	Power Supply
SHH-1	Soldering Handpiece Holder
SHP-1	Soldering Handpiece
RMP-1	Tip Removal Pad
SG-1-GR	Handpiece Grip Green
SG-1-GY	Handpiece Grip Gray
BC-1	Brass Curls
SPG-1	Sulphide Free Sponge
M7CH176	Soldering tip cartridge



## TMT-9000S SPECIFICATIONS

Input Line Voltage: TMT-9000PS-1	100-110 VAC
TMT-9000PS-2	220-240 VAC
Tip to Ground Potential:	<2mV, true RMS 50-500Hz
Tip to Ground Resistance:	<2 Ohms DC
Idle temperature Stability:	+/- 1.1 °C (2 °F)
Maximum Enclosure Temperature:	50 °C (122 °F)
Fuse: TMT-9000PS-1	125V 1A "Slo-Blo"
TMT-9000PS-2	250V 0.5A "Slo-Blo"
Output Frequency:	13.56 MHz
Size (W x H x D):	212.4mm x 118mm x 132mm
Weight:	3.47 KG
LCD display:	60mm x 16mm
Input Line Frequency:	50/60 Hz
Certification marks:	   

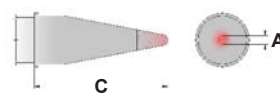
# TMT-9000S

## M Series Tip Cartridges



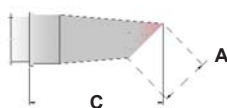
CHISEL

Part Number	A		C	
	MM	IN.	MM	IN.
M7CH175	2.50	0.10"	10.00	0.39"
M7CH176	1.78	0.07"	10.00	0.39"
M7CH177	1.50	0.06"	10.00	0.39"
M7CH178	1.00	0.04"	9.00	0.35"
M7CH179	1.00	0.04"	6.40	0.25"
M7CH180	3.00	0.12"	8.90	0.35"
M7CH181	3.00	0.12"	5.20	0.20"
M7CH250	5.00	0.20"	7.50	0.30"
M7CP200	2.50	0.10"	6.40	0.25"
M7CP201	1.80	0.07"	6.40	0.25"
M7LC650	5.00	0.20"	11.40	0.45"
M7LR403	1.78	0.07"	15.00	0.59"



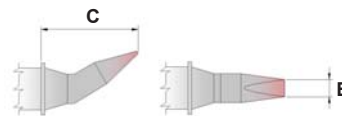
CONICAL

Part Number	A		C	
	MM	IN.	MM	IN.
M7C300	0.40	0.016"	14.00	0.55"
M7C301	0.50	0.02"	5.00	0.20"
M7CP302	0.40	0.016"	8.90	0.35"
M7CP303	1.00	0.04"	7.40	0.29"
M7CS150	0.40	0.016"	13.00	0.51"
M7CS151	1.00	0.04"	13.40	0.53"
M7CS152	0.40	0.016"	8.50	0.33"
M7CS154	1.00	0.04"	16.40	0.65"
M7CS155	0.50	0.02"	15.40	0.61"
M7MF375	0.25	0.01"	13.40	0.53"



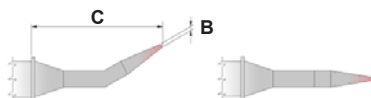
BEVEL

Part Number	A		C	
	MM	IN.	MM	IN.
M7BV010	1.00	0.04"	13.40	0.53"
M7BV030	3.00	0.12"	13.00	0.51"
M7BV350	1.78	0.07"	14.00	0.55"
M7BS602	1.80	0.07"	6.40	0.25"
M7LR400	1.00	0.04"	14.60	0.57"



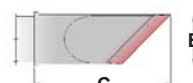
CHISEL BENT

Part Number	B		C	
	MM	IN.	MM	IN.
M7CB225	1.78	0.07"	10.00	0.39"
M7CB226	1.50	0.06"	12.00	0.47"



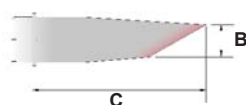
CONICAL BENT

Part Number	B		C	
	MM	IN.	MM	IN.
M7B325	0.40	0.016"	16.00	0.63"
M7MD575	0.51	0.02"	15.40	0.61"
M7SB275	0.40	0.016"	8.40	0.33"
M7SB276	0.50	0.02"	14.00	0.55"



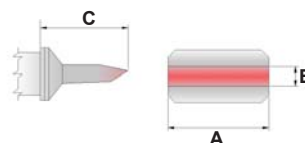
KNIFE

Part Number	B		C	
	MM	IN.	MM	IN.
M7DS526	4.83	0.19"	16.00	0.63"
M7K100	4.83	0.19"	16.40	0.65"



HOOF

Part Number	B		C	
	MM	IN.	MM	IN.
M7DS525	3.30	0.13"	17.90	0.70"
M7DS529	1.52	0.06"	16.40	0.65"
M7LR401	3.05	0.12"	16.40	0.65"
M7WV020	2.00	0.08"	13.00	0.51"
M7WV031	3.10	0.12"	16.40	0.65"
M7WV300	3.00	0.12"	14.50	0.57"



BLADE

Part Number	A		B		C	
	MM	IN.	MM	IN.	MM	IN.
M7LB125	10.41	0.41"	2.00	0.08"	9.00	0.35"
M7LB126	15.75	0.62"	2.00	0.08"	9.00	0.35"
M7LB127	22.10	0.87"	2.00	0.08"	9.00	0.35"
M7LB128	30.00	1.18"	2.00	0.08"	9.00	0.35"

6 = Temperature Sensitive 7 = Standard Applications 8 = High Performance





# POWER PLUS

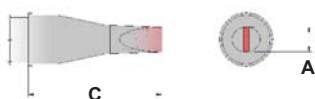
## M Series Power Plus

### POWER PLUS TIPS

M Series - Power Plus tips are designed with a larger copper mass and extra plating. These design changes have helped increase soldering performance as well as tip life. Users of the TMT-9000S can now experience significant performance gains while soldering heavy duty jobs without increasing the tip temperature.

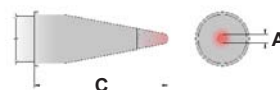


### Power Plus - High Performance, Longer Tip Life



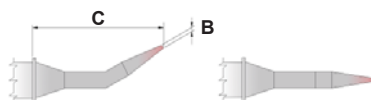
CHISEL

Part Number	A		C	
	MM	IN.	MM	IN.
M7CH178H	1.00	0.04"	11.40	0.45"
M7CH177H	1.50	0.059"	10.30	0.41"
M7CH176H	1.78	0.07"	10.30	0.41"
M7CH175H	2.50	0.10"	10.30	0.41"



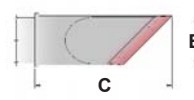
CONICAL

Part Number	A		C	
	MM	IN.	MM	IN.
M7C300H	0.40	0.016"	19.00	0.75"
M7CP303H	1.00	0.04"	14.40	0.57"
M7CS152H	0.51	0.02"	11.80	0.46"
M7CS151H	1.00	0.04"	15.40	0.61"
M7CS014H	1.40	0.055"	15.40	0.61"
M7MF375H	0.25	0.01"	13.60	0.54"



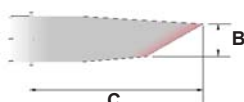
CONICAL BENT

Part Number	B		C	
	MM	IN.	MM	IN.
M7SB275H	0.51	0.02"	11.80	0.46"



KNIFE

Part Number	B		C	
	MM	IN.	MM	IN.
M7K100H	4.50	0.18"	16.65	0.66"
M7DS526H	4.50	0.18"	16.65	0.66"



HOOF

Part Number	B		C	
	MM	IN.	MM	IN.
M7DS023H	3.10	0.12"	18.20	0.72"

# DS-KIT

## Accessory - Desolder Kit



### DESOLDER KIT

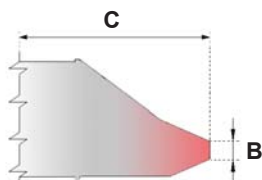
The desolder gun uses shop air to create a powerful air vacuum to clean through-holes quickly and efficiently. Cleaning and maintenance is quick and easy with the use of replaceable filter wools and chamber liner.

### DESOLDER KIT INCLUDES

	TMT-9000S	TMT-5000S	TMT-2000S
Desolder Gun Airhose	DS-AH-1	DS-AH-1	DS-AH-1
Filter Wool (6 pairs) & Chamber Liner (15 pcs)	DS-CP-1	DS-CP-1	DS-CP-1
Desolder Gun	DS-GUN-1	DS-GUN-2	DS-GUN-3
Desolder Gun Handpiece Cable	DS-HPC-1	DS-HPC-2	DS-HPC-3
Cleaning Toolkit	DS-TCT-1	DS-TCT-1	DS-TCT-1
Cartridge Removal Pad	RMP-1	RMP-1	RMP-1
Desolder Gun Workstand	SHH-3	SHH-3	SHH-3



### DESOLDER TIPS



#### TMT-5000S

Part Number	B		C	
	MM	IN.	MM	IN.
T75DT003	0.80	0.03"	14.00	0.55"
T75DT004	1.10	0.04"	14.00	0.55"
T75DT005	1.35	0.05"	14.00	0.55"
T75DT006	1.50	0.06"	14.00	0.55"
T75DT007	2.40	0.095"	14.00	0.55"

#### TMT-9000S

Part Number	B		C	
	MM	IN.	MM	IN.
M80DT003	0.80	0.03"	14.00	0.55"
M80DT004	1.10	0.04"	14.00	0.55"
M80DT005	1.35	0.05"	14.00	0.55"
M80DT006	1.50	0.06"	14.00	0.55"
M80DT007	2.40	0.095"	14.00	0.55"

#### TMT-2000S

Part Number	B		C	
	MM	IN.	MM	IN.
K60DT003	0.80	0.03"	14.00	0.55"
K60DT004	1.10	0.04"	14.00	0.55"
K60DT005	1.35	0.05"	14.00	0.55"
K60DT006	1.50	0.06"	14.00	0.55"
K60DT007	2.40	0.095"	14.00	0.55"



# TMT-5000S

## Soldering Station






### TMT-5000S COMPONENTS

TMT-5000PS	Power Supply
SHH-2	Soldering Handpiece Holder
SHP-T	Soldering Handpiece
RMP-1	Tip Removal Pad
SG-1-GY	Handpiece Grip Gray
SG-1-BK	Handpiece Grip Black
BC-1	Brass Curls
SPG-1	Sulphide Free Sponge



### TMT-5000S SPECIFICATIONS

Input Line Voltage: TMT-5000PS-1	100-110 VAC, 52W
TMT-5000PS-2	220-240 VAC, 52W
Tip to Ground Potential:	<2mV, true RMS 50-500Hz
Tip to Ground Resistance:	<2 Ohms DC
Idle temperature Stability:	+/- 1.1 °C (2 °F)
Maximum Enclosure Temperature:	50 °C (122 °F)
Fuse: TMT-5000PS-1	125V 1A
TMT-5000PS-2	250V 0.5A
Output Power (Maximum):	30 Watts
Output Frequency:	13.56 MHz
Size (W x H x D):	112mm x 205mm x 117mm
Weight:	2.58 KG
Input Line Frequency:	50/60 Hz
Certification marks:	  

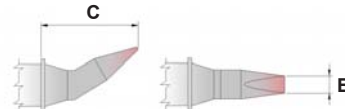
# TMT-5000S

## T Series Tip Cartridges



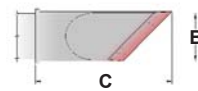
CHISEL

Part Number	A		C	
	MM	IN.	MM	IN.
T70CH012	1.20	0.05"	13.00	0.51"
T70CH016	1.60	0.06"	13.00	0.51"
T70CH024	2.40	0.09"	13.00	0.51"
T70CH032	3.20	0.13"	8.00	0.31"
T70CH052	5.20	0.20"	12.00	0.47"
TM70CH175	2.50	0.10"	10.00	0.39"
TM70CH176	1.78	0.07"	10.00	0.39"
TM70CH177	1.50	0.06"	10.00	0.39"
TM70CH178	1.00	0.04"	9.00	0.35"
TM70CH179	1.00	0.04"	6.40	0.25"
TM70CH180	3.00	0.12"	8.90	0.35"
TM70CH181	3.00	0.12"	5.20	0.20"
TM70CH250	5.00	0.20"	7.50	0.30"
TM70CP200	2.50	0.10"	6.40	0.25"
TM70CP201	1.80	0.07"	6.40	0.25"
TM70LC650	5.00	0.20"	11.40	0.45"
TM70LR403	1.78	0.07"	15.00	0.59"



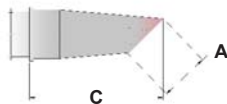
CHISEL BENT

Part Number	B		C	
	MM	IN.	MM	IN.
TM70CB225	1.78	0.07"	10.00	0.39"
TM70CB226	1.50	0.06"	12.00	0.47"



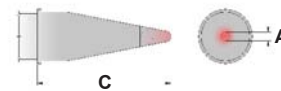
KNIFE

Part Number	B		C	
	MM	IN.	MM	IN.
T70K047	4.70	0.19"	13.00	0.51"
TM70DS526	4.83	0.19"	16.00	0.63"
TM70K100	4.83	0.19"	16.40	0.65"



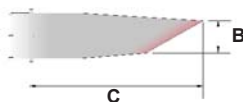
BEVEL

Part Number	A		C	
	MM	IN.	MM	IN.
T70BV010	1.00	0.04"	13.40	0.53"
T70BV030	3.30	0.13"	13.00	0.51"
TM70BV350	1.78	0.07"	14.00	0.55"
TM70BS602	1.80	0.07"	6.40	0.25"
TM70LR400	1.00	0.04"	14.60	0.57"



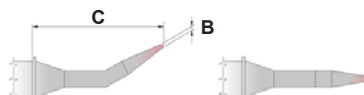
CONICAL

Part Number	A		C	
	MM	IN.	MM	IN.
T70C004	0.40	0.016"	10.40	0.41"
T70C010	1.00	0.04"	13.00	0.51"
TM70C300	0.40	0.016"	14.00	0.55"
TM70C301	0.50	0.02"	5.00	0.20"
TM70CP302	0.40	0.016"	8.90	0.35"
TM70CP303	1.00	0.04"	7.40	0.29"
TM70CS150	0.40	0.016"	13.00	0.51"
TM70CS151	1.00	0.04"	13.40	0.53"
TM70CS152	0.40	0.016"	8.50	0.33"
TM70CS154	1.00	0.04"	16.40	0.65"
TM70CS155	0.50	0.02"	15.40	0.61"
TM70MF375	0.25	0.01"	13.40	0.53"



HOOF

Part Number	B		C	
	MM	IN.	MM	IN.
T70WV020	2.00	0.08"	13.00	0.51"
T70WV031	3.10	0.12"	16.40	0.65"
TM70DS525	3.30	0.13"	17.90	0.70"
TM70DS529	1.52	0.06"	16.40	0.65"
TM70LR401	3.05	0.12"	16.40	0.65"
TM70WV300	3.00	0.12"	14.50	0.57"



CONICAL BENT

Part Number	B		C	
	MM	IN.	MM	IN.
TM70B325	0.40	0.016"	16.00	0.63"
TM70MD575	0.51	0.02"	15.40	0.61"
TM70SB275	0.40	0.016"	8.40	0.33"
TM70SB276	0.50	0.02"	14.00	0.55"





# TMT-2000S

## Soldering Station







### TMT-2000S COMPONENTS

TMT-2000PS	Power Supply
SHH-4	Soldering Handpiece Holder
SHP-K	Soldering Handpiece
RMP-1	Tip Removal Pad
BC-1	Brass Curls
SPG-1	Sulphide Free Sponge
CC-1	Connection Cable

### SYSTEM CONFIGURATIONS

Model Number	Handpiece	Tip Cartridge	Connector
TMT-2000S-K	SHP-K	K series	3-Pin
TMT-2000S-PM	SHP-PM	P series	8-Pin
TMT-2000S-SM	SHP-SM	S series	8-Pin

### TMT-2000S SPECIFICATIONS

Input Line Voltage: TMT-2000PS	100-240 VAC
Tip to Ground Potential:	<2mV, true RMS 50-500Hz
Tip to Ground Resistance:	<2 Ohms DC
Idle temperature Stability:	+/- 1.1 °C (2 °F)
Maximum Enclosure Temperature:	65 °C (149 °F)
Fuse: TMT-2000PS	250V 1A
Output Frequency:	470 KHz
Size (W x H x D):	110mm x 155mm x 92mm
Weight:	1.30 KG
Input Line Frequency:	50/60 Hz
Certification marks:	   



# TMT-2000S

## K, P & S Series Tip Cartridges



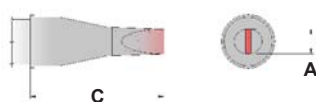
K SERIES



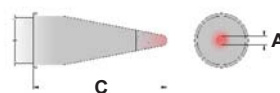
P SERIES



S SERIES



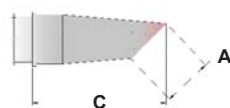
CHISEL



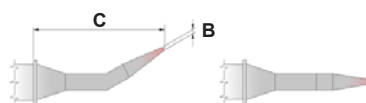
CONICAL

Part Number	A		C	
	MM	IN.	MM	IN.
K75CH010	1.00	0.04"	11.40	0.45"
K75CH015	1.50	0.059"	10.30	0.41"
K75CH016	1.60	0.063"	10.30	0.41"
K75CH018	1.78	0.07"	10.30	0.41"
K75CH025	2.50	0.10"	10.30	0.41"
P70CH012	1.20	0.05"	13.00	0.51"
P70CH016	1.60	0.06"	13.00	0.51"
P70CH024	2.40	0.09"	13.00	0.51"
P70CH032	3.20	0.13"	8.00	0.31"
P70CH052	5.20	0.20"	12.00	0.47"
S75CH010	1.00	0.04"	11.40	0.45"
S75CH015	1.50	0.059"	10.30	0.41"
S75CH016	1.60	0.063"	10.30	0.41"
S75CH018	1.78	0.07"	10.30	0.41"
S75CH025	2.50	0.10"	10.30	0.41"

Part Number	A		C	
	MM	IN.	MM	IN.
K75BV004	0.40	0.016"	19.00	0.75"
K75CP010	1.00	0.04"	14.40	0.57"
K75CS005	0.51	0.02"	11.80	0.46"
K75CS010	1.00	0.04"	15.40	0.61"
K75CS014	1.40	0.055"	15.40	0.61"
K75MF003	0.25	0.01"	13.60	0.54"
P70C004	0.40	0.016"	10.40	0.41"
P70C010	1.00	0.04"	13.00	0.51"
S75BV004	0.40	0.016"	19.00	0.75"
S75CP010	1.00	0.04"	14.40	0.57"
S75CS005	0.51	0.02"	11.80	0.46"
S75CS010	1.00	0.04"	15.40	0.61"
S75CS014	1.40	0.055"	15.40	0.61"
S75MF003	0.25	0.01"	13.60	0.54"



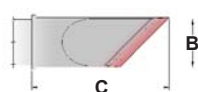
BEVEL



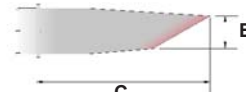
CONICAL BENT

Part Number	A		C	
	MM	IN.	MM	IN.
P70BV010	1.00	0.04"	13.40	0.53"
P70BV030	3.30	0.13"	13.00	0.51"

Part Number	B		C	
	MM	IN.	MM	IN.
K75SB005	0.51	0.02"	11.80	0.46"
S75SB005	0.51	0.02"	11.80	0.46"



KNIFE



HOOF

Part Number	B		C	
	MM	IN.	MM	IN.
K75DS045	4.50	0.18"	16.65	0.66"
K75DS061	4.50	0.18"	16.65	0.66"
P70K047	4.70	0.19"	13.00	0.51"
S75DS045	4.50	0.18"	16.65	0.66"
S75DS061	4.50	0.18"	16.65	0.66"

Part Number	B		C	
	MM	IN.	MM	IN.
K75DS023	3.10	0.12"	18.20	0.72"
P70WV020	2.00	0.08"	13.00	0.51"
S75DS023	3.10	0.12"	18.20	0.72"

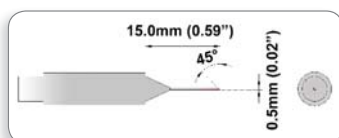


# REPLACEMENT TIPS

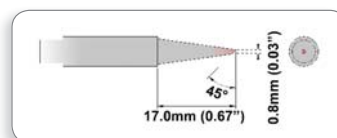
## H Series Solder Tips

### H SERIES

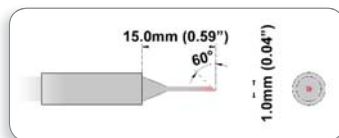
H series tips are made from oxygen free high conductivity copper and iron plated to resist erosion by solder to ensure longer life. The tip point is finished to provide a precision working surface, nickel plated to for corrosion protection and chrome plated to prevent solder "wicking" beyond the working area. All tips are lead free and tinned for proper wetting and to optimize heat transfer. Tip styles designated "H" are suitable for Hakko® "M" series soldering systems.



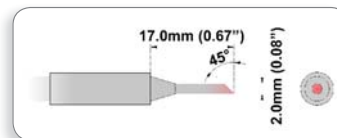
**TMT-H-M-0.5C**  
45° Bevel, 0.5mm (0.020")  
Equivalent to 900M-T-0.5C



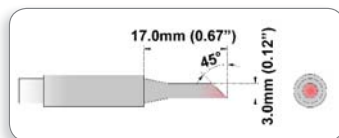
**TMT-H-M-0.8C**  
45° Bevel, 0.8mm (0.031")  
Equivalent to 900M-T-0.8C



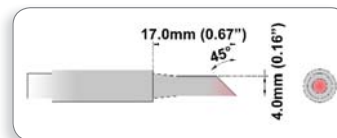
**TMT-H-M-1C**  
60° Bevel, 1.0mm (0.040")  
Equivalent to 900M-T-1C



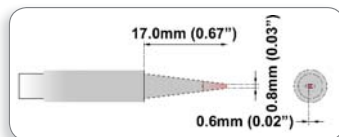
**TMT-H-M-2C**  
45° Bevel, 2.0mm (0.079")  
Equivalent to 900M-T-2C



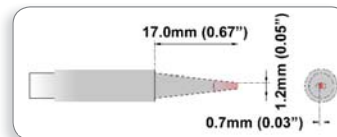
**TMT-H-M-3C**  
45° Bevel, 3.0mm (0.118")  
Equivalent to 900M-T-3C



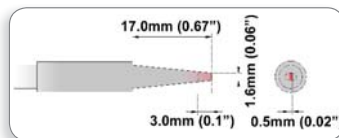
**TMT-H-M-4C**  
45° Bevel, 4.0mm (0.158")  
Equivalent to 900M-T-4C



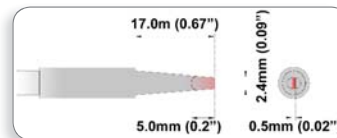
**TMT-H-M-0.8D**  
Chisel, 0.8mm (0.032")  
Equivalent to 900M-T-0.8D



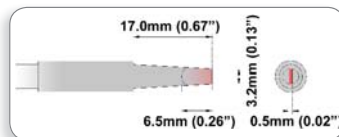
**TMT-H-M-1.2D**  
Chisel, 1.2mm (0.47")  
Equivalent to 900M-T-1.2D



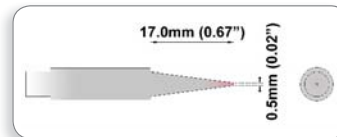
**TMT-H-M-1.6D**  
Chisel, 1.6mm (0.063")  
Equivalent to 900M-T-1.6D



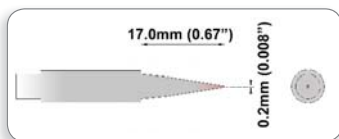
**TMT-H-M-2.4D**  
Chisel, 2.4mm (0.095")  
Equivalent to 900M-T-2.4D



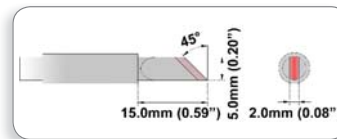
**TMT-H-M-3.2D**  
Chisel, 3.2mm (0.126")  
Equivalent to 900M-T-3.2D



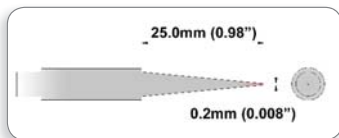
**TMT-H-M-B**  
Conical, 0.5mm (0.020")  
Equivalent to 900M-T-B



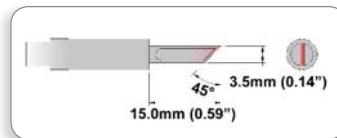
**TMT-H-M-I**  
Conical, 0.2mm (0.008")  
Equivalent to 900M-T-I



**TMT-H-M-K**  
Knife, 5.0mm (0.197")  
Equivalent to 900M-T-K



**TMT-H-M-LB**  
Long Conical, 0.2mm (0.008")  
Equivalent to 900M-T-LB



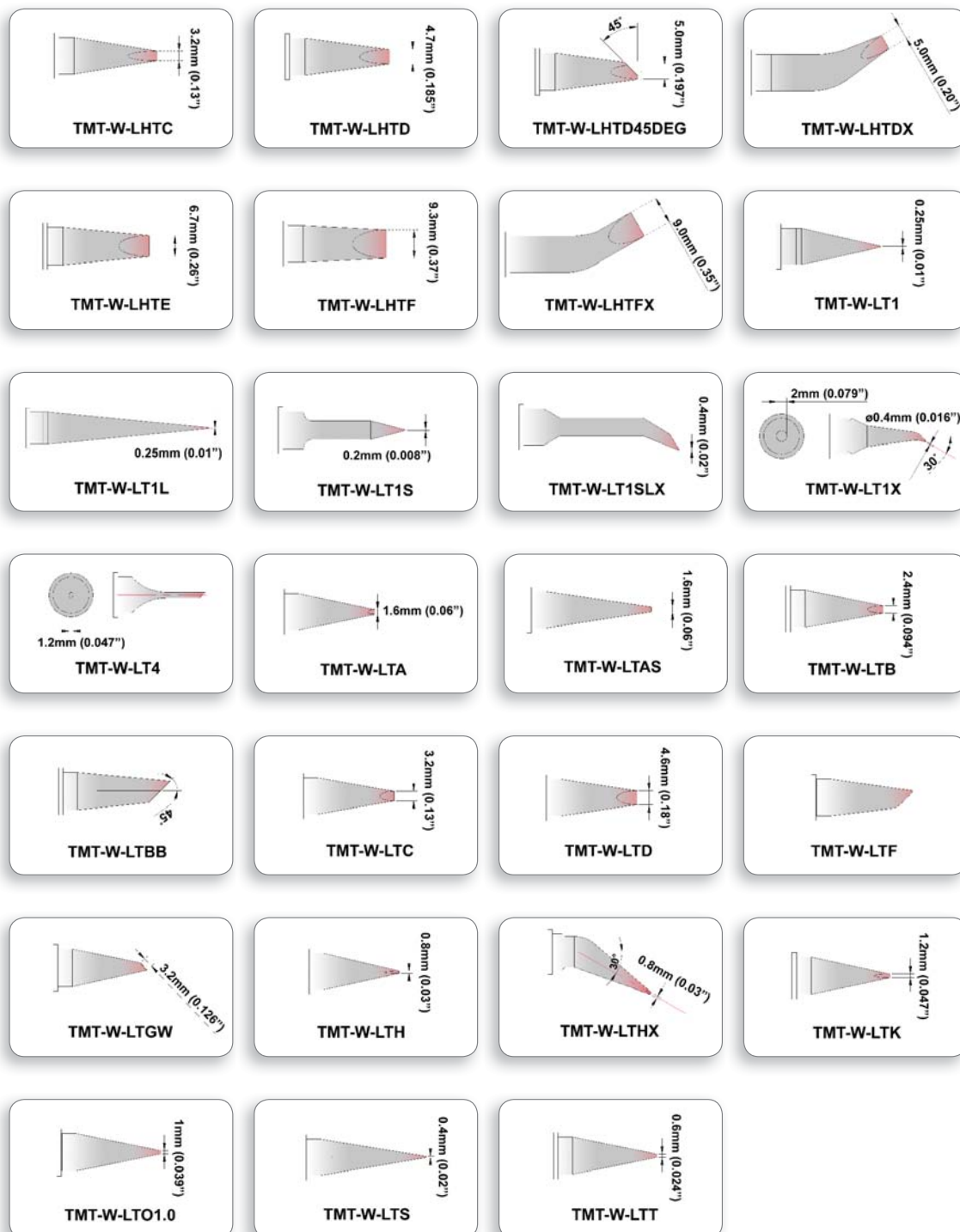
**TMT-H-M-SK**  
Knife, 3.5mm (0.138")  
Equivalent to 900M-T-SK

# REPLACEMENT TIPS

## W Series Solder Tips

### W SERIES

W series tips are made from oxygen free high conductivity copper and iron plated to resist erosion by solder to ensure longer life. The tip point is finished to provide a precision working surface, nickel plated to for corrosion protection and chrome plated to prevent solder "wicking" beyond the working area. All tips are lead free and tinned for proper wetting and to optimize heat transfer. Tip styles designated "W" are suitable for Weller® series soldering systems.







## Introduction

With today's delicate and complex electronic assemblies, temperature accuracy is a consistent challenge. Component density, lead size and thermally sensitive components all combine to make process control demands, criteria which many systems fail to meet.

Thermaltronics CHT (Curie Heat Technology) is different, it responds to the thermal demands of each solder joint by adjusting the power instantaneously, thereby meeting the exact requirements of the substrate component and solder material.

The Thermaltronics Soldering Product range includes both 13.56 MHz Power Supplies and those which operate at 450KHz. The extended range of power supplies and associated accessories provide users with a wide choice of soldering solutions and ensure full compatibility with existing competitive products.

All Thermaltronics products are produced in accordance with ISO 9000 & ISO 14000 standards and meet either TUV, GS, CE or NRTL safety requirements. Strict quality control procedures are in place and product warranties are among the best in the industry.

The new range of soldering systems and cartridges, engineered by Thermaltronics, also incorporate further improvements in design which optimize power thresholds and provide increased performance and reliability. Advances in plating technology have also ensured reductions in the "cost of ownership" and extended tip life.

To aid in the selection of the correct temperature profile, Thermaltronics solder cartridges are color coded for easy identification. This unique feature has additional benefits in both inventory management and quality control.

## Other features which have been verified through extensive testing include:

- ✓ Improved plating which extends service life and provides cost savings
- ✓ Gold plated connectors which improve connectivity and optimize power transmission
- ✓ Enhanced cartridge design which achieves faster point to point soldering
- ✓ Curie Heat technology which provides stable tip temperatures

**SPEED – QUALITY – COST REDUCTION – INCREASED PRODUCTIVITY**

**THERMALTRONICS**

[www.thermaltronics.com](http://www.thermaltronics.com)