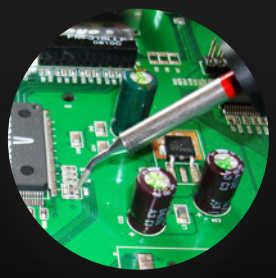
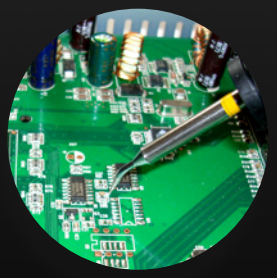
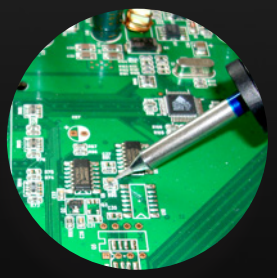
THERMALTRONICS

QUALITY ASSURED FIRM ISO 9000

QUALITY ASSURED FIRM ISO 14000

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TMT-9000S

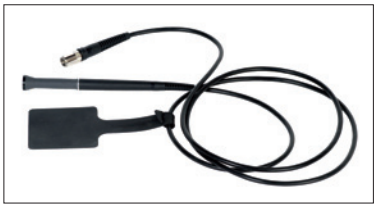
Soldering & Rework Station

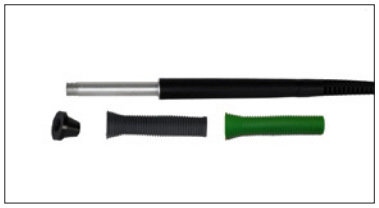
TMT-9000S

ESD SAFE LEAD FREE

The TMT-9000S is based on Curie Heat Technology which 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.

- High thermal recovery & performance.
- 13.56MHz power supply with built-in LCD display.
- Dual switchable soldering ports.
- No calibration or operator training required.
- No additional coil assembly costs.





TMT-9000S SPECIFICATIONS

Input Line Voltage:	TMT-9000PS-1	100-110 VAC
	TMT-9000PS-2	220-240 VAC
Surface Resistivity:		10^5 - 10^9 Ω/sq
Tip to Ground Potential:		<2 mV
Tip to Ground Resistance:		<2 Ohms
Idle temperature Stability:		+/- 1.1 °C (2 °F)
Max Enclosure Temperature:		50 °C (122 °F)
Fuse:	TMT-9000PS-1	250V 1A “Slo-Blo”
	TMT-9000PS-2	250V 0.5A “Slo-Blo”
Output Power (Maximum):		40 Watts
Output Frequency:		13.56 MHz
Size (W x H x D):		212mm x 118mm x 132mm
Weight:		3.47 KG
LCD display:		60mm x 16mm
Input Line Frequency:		50/60 Hz

PACKING LIST

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

CERTIFICATION MARKS

*Tested & certified by TUV-SUD

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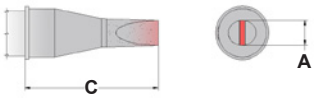
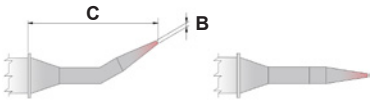
TMT-9000S

M Series Tip Cartridges



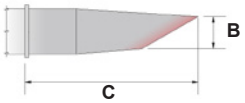
CHISEL

	A		C	
Part Number	MM	IN.	MM	IN.
M7CH012	1.20	0.05"	13.00	0.51"
M7CH016	1.60	0.06"	13.00	0.51"
M7CH024	2.40	0.09"	13.00	0.51"
M7CH030	3.00	0.12"	11.00	0.43"
M7CH038	3.80	0.15"	22.00	0.87"
M7CH052	5.20	0.20"	12.00	0.47"
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"
M7CP202	1.50	0.06”	6.40	0.25”
M7LC650	5.00	0.20"	11.40	0.45"
M7LR403	1.78	0.07"	15.00	0.59"



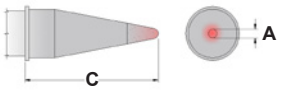
CONICAL BENT

	B		C	
Part Number	MM	IN.	MM	IN.
M7B325	0.40	0.016"	16.00	0.63"
M7BS375	0.25	0.01"	13.00	0.51"
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"



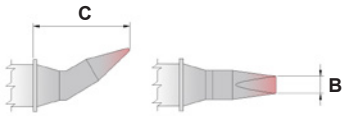
BEVEL / HOOF

	B		C	
Part Number	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"
M7DS525	3.30	0.13"	17.90	0.70"
M7DS529	1.52	0.06"	16.40	0.65"
M7LR400	1.00	0.04"	14.60	0.57"
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"



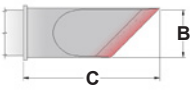
CONICAL

	A		C	
Part Number	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"



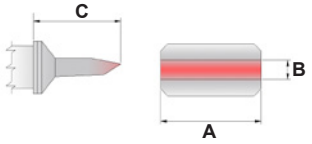
CHISEL BENT

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



KNIFE

	B		C	
Part Number	MM	IN.	MM	IN.
M7DS526	4.83	0.19"	16.00	0.63"
M7K047	4.70	0.19"	13.00	0.51"
M7K100	4.83	0.19"	16.40	0.65"



BLADE

	A		B		C	
Part Number	MM	IN.	MM	IN.	MM	IN.
M7LB124	5.00	0.20"	2.00	0.08"	9.00	0.35"
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

THERMALTRONICS

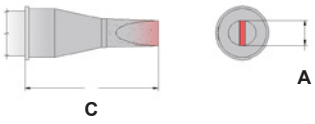
POWER PLUS

M Series Power Plus

POWER PLUS TIPS

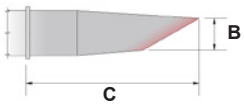
M Series - Power Plus tips are designed with a larger copper mass and extra plating. These design changes have helped increase soldering performance as well as tip life. Users of the TMT-9000S can now experience significant performance gains while soldering heavy duty jobs without increasing the tip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

Power Plus - High Performance, Longer Tip Life



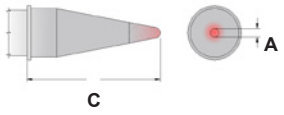
CHISEL

Part Number	A MM	A IN.	C MM	C IN.
M7CH032H	3.20	0.13"	10.00	0.39"
M7CH060H	6.00	0.24"	5.00	0.20"
M7CH080H	8.00	0.31"	5.00	0.20"
M7CH175H	2.50	0.10"	10.30	0.41"
M7CH176H	1.78	0.07"	10.30	0.41"
M7CH177H	1.50	0.059"	10.30	0.41"
M7CH178H	1.00	0.04"	11.40	0.45"
M7CH250H	5.00	0.20"	14.00	0.55"



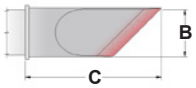
BEVEL / HOOF

Part Number	B MM	B IN.	C MM	C IN.
M7DS023H	3.10	0.12"	18.20	0.72"
M7BV010H	1.10	0.04"	13.40	0.53"
M7BV020H	2.00	0.08"	17.00	0.67"
M7BV030H	3.00	0.12"	13.00	0.51"
M7BV040H	4.00	0.16"	17.00	0.67"
M7BV050H	5.00	0.20"	15.00	0.59"
M7BV060H	6.00	0.24"	15.00	0.59"
M7BVF010H	1.00	0.04"	15.00	0.59"
M7BVF020H	2.00	0.08"	17.00	0.67"
M7BVF030H	3.00	0.12"	17.00	0.67"
M7BVF050H	5.00	0.20"	15.00	0.59"
M7BVF060H	6.00	0.24"	15.00	0.59"



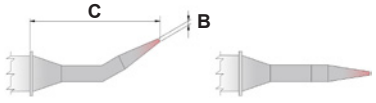
CONICAL

Part Number	A MM	A IN.	C MM	C 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"



KNIFE

Part Number	B MM	B IN.	C MM	C IN.
M7K100H	4.50	0.18"	16.65	0.66"
M7DS035H	3.50	0.14"	16.00	0.63"
M7DS526H	4.50	0.18"	16.65	0.66"



CONICAL BENT

Part Number	B MM	B IN.	C MM	C IN.
M7B325H	0.40	0.02"	15.00	0.59"
M7SB275H	0.50	0.02"	11.80	0.46"
M7SB276H	0.50	0.02"	13.60	0.54"

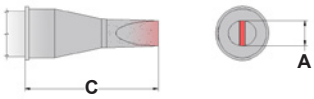
THERMALTRONICS

MICRO FINE

M Series Micro Fine

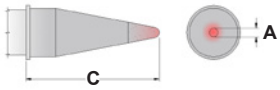
MICRO FINE TIPS

M Series - Micro Fine tips are designed for precision soldering of very small components. The Micro Fine tips geometries range from 0.1mm to 1.0mm and enable operators to solder dense boards and micro-components with high precision.



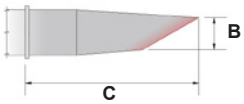
CHISEL

	A		C	
Part Number	MM	IN.	MM	IN.
M7CH004	0.40	0.016"	13.00	0.51"
M7CH006	0.60	0.024"	13.00	0.51"
M7CH008	0.80	0.031"	13.00	0.51"



CONICAL

	A		C	
Part Number	MM	IN.	MM	IN.
M7C001	0.10	0.004"	13.00	0.51"
M7C002	0.20	0.008"	13.00	0.51"
M7C004	0.40	0.016"	13.00	0.51"



BEVEL / HOOF

	B		C	
Part Number	MM	IN.	MM	IN.
M7BV007	0.70	0.028"	13.00	0.51"

Micro Fine - Also available for TMT-2000S and K, P & S Series

	A		C	
Part Number	MM	IN.	MM	IN.
K75C001	0.10	0.004"	13.00	0.51"
K75C002	0.20	0.008"	13.00	0.51"
K75C004	0.40	0.016"	13.00	0.51"
K75CH006	0.60	0.024"	13.00	0.51"
K75CH008	0.80	0.031"	13.00	0.51"

	B		C	
Part Number	MM	IN.	MM	IN.
K75BV007	0.70	0.028"	13.00	0.51"

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

THERMALTRONICS

TMT-5000S

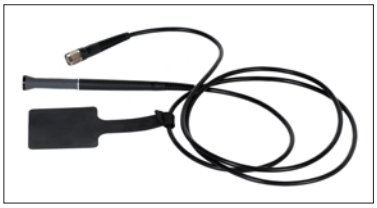
Soldering Station

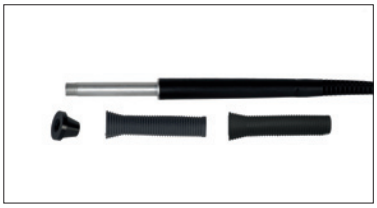
TMT-5000S

ESD SAFE LEAD FREE

The TMT-5000S is based on Curie Heat Technology which 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.

- Curie Heat Technology operating at 13.56MHz.
- Features our unique T Series line of tip cartridges.
- No calibration or operator training required.
- No additional coil assembly costs.





TMT-5000S SPECIFICATIONS

Input Line Voltage:	TMT-5000PS-1	100-110 VAC, 52W
	TMT-5000PS-2	220-240 VAC, 52W
Surface Resistivity:		10^5 - 10^9 Ω/sq
Tip to Ground Potential:		<2 mV
Tip to Ground Resistance:		<2 Ohms DC
Idle temperature Stability:		+/- 1.1 °C (2 °F)
Max Enclosure Temperature:		50 °C (122 °F)
Fuse:	TMT-5000PS-1	250V 1A “Slo-Blo”
	TMT-5000PS-2	250V 0.5A “Slo-Blo”
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

PACKING LIST

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

CERTIFICATION MARKS

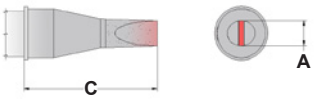
*Tested & certified by TUV-SUD

THERMALTRONICS

www.thermaltronics.com

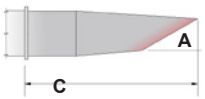
TMT-5000S

T Series Tip Cartridges



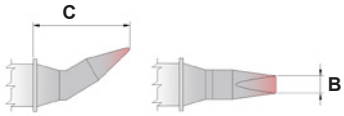
CHISEL

Part Number	A MM	A IN.	C MM	C 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"
T70CH030	3.00	0.12"	11.00	0.43"
T70CH032	3.20	0.13"	8.00	0.31"
T70CH052	5.20	0.20"	12.00	0.47"
TM70CH038	3.80	0.15"	22.00	0.87"
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"
TM70CP202	1.50	0.06”	6.40	0.25”
TM70LC650	5.00	0.20"	11.40	0.45"
TM70LR403	1.78	0.07"	15.00	0.59"



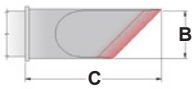
BEVEL / HOOF

Part Number	A MM	A IN.	C MM	C IN.
T70BV010	1.00	0.04"	13.40	0.53"
T70BV030	3.30	0.13"	13.00	0.51"
T70WV020	2.00	0.08”	13.00	0.51”
T70WV031	3.10	0.12”	16.40	0.65”
TM70BV350	1.78	0.07"	14.00	0.55"
TM70BS602	1.80	0.07"	6.40	0.25"
TM70DS525	3.30	0.13"	17.90	0.70"
TM70DS529	1.52	0.06"	16.40	0.65"
TM70LR400	1.00	0.04"	14.60	0.57"
TM70LR401	3.05	0.12"	16.40	0.65"
TM70WV300	3.00	0.12"	14.50	0.57"



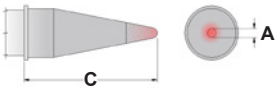
CHISEL BENT

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



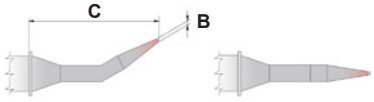
KNIFE

Part Number	B MM	B IN.	C MM	C 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"



CONICAL

Part Number	A MM	A IN.	C MM	C 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"



CONICAL BENT

Part Number	B MM	B IN.	C MM	C IN.
TM70B325	0.40	0.016"	16.00	0.63"
TM70BS375	0.25	0.01"	13.00	0.51"
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"

60 = Temperature Sensitive 70 = Standard Applications 80 = High Performance

THERMALTRONICS

TMT-2000S

Soldering Station

TMT-2000S

ESD SAFE LEAD FREE

The TMT-2000S is based on Curie Heat Technology which 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.

- Curie Heat Technology operating at 470KHz.
- Max flexibility, allows the use of K, P, S Series tips.
- Extremely compact, weighs just 1.3KG.
- No calibration or operator training required.
- No additional coil assembly costs.

SYSTEM CONFIGURATIONS

Model Number	Handpiece	Tip Cartridge	Connector	Workstand
TMT-2000S-K	SHP-K	K Series	3-Pin	SHH-4 Microswitch Workstand
TMT-2000S-PM	SHP-PM	P Series	8-Pin	
TMT-2000S-SM	SHP-SM	S Series	8-Pin	
TMT-2000S-K (UPG)	SHP-K	K Series	3-Pin	SHH-5 Sleep Workstand
TMT-2000S-PM (UPG)	SHP-PM	P Series	8-Pin	
TMT-2000S-SM (UPG)	SHP-SM	S Series	8-Pin	

TMT-2000S SPECIFICATIONS

Input Line Voltage:	TMT-2000PS	100-240 VAC, 55W
Surface Resistivity:		10^5 - 10^9 Ω/sq
Tip to Ground Potential:		<2 mV
Tip to Ground Resistance:		<2 Ohms DC
Idle temperature Stability:		+/- 1.1 °C (2 °F)
Max Enclosure Temperature:		50 °C (122 °F)
Fuse:	TMT-2000PS	250V 1A “Slo-Blo”
Output Power (Maximum):		50 Watts
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

PACKING LIST

TMT-2000PS	Power Supply
SHH-4[1]	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

[1]Optional Feature: SHH-5 sleep workstand

CERTIFICATION MARKS

*Tested & certified by TUV-SUD

www.thermaltronics.com

THERMALTRONICS

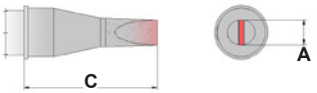
TMT-2000S

K, P & S Series Tip Cartridges

K SERIES

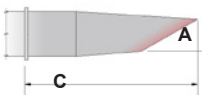
P SERIES

S SERIES



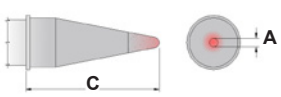
CHISEL

	A		C	
Part Number	MM	IN.	MM	IN.
K75CH010	1.00	0.04"	11.40	0.45"
K75CH015	1.50	0.059"	10.30	0.41"
K75CH016	1.78	0.07"	10.30	0.41"
K75CH018	1.78	0.07"	10.30	0.41"
K75CH025	2.50	0.10"	10.30	0.41"
K75CH032	3.20	0.13"	5.00	0.20"
K75CH060	6.00	0.24"	5.00	0.20"
K75CH080	8.00	0.31"	5.00	0.20"
P75CH012	1.20	0.05"	13.00	0.51"
P75CH016	1.60	0.06"	13.00	0.51"
P75CH024	2.40	0.09"	13.00	0.51"
P75CH032	3.20	0.13"	8.00	0.31"
P75CH052	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	1.78	0.07"	10.30	0.41"
S75CH018	1.78	0.07"	10.30	0.41"
S75CH025	2.50	0.10"	10.30	0.41"
S75CH032	3.20	0.13"	5.00	0.20"



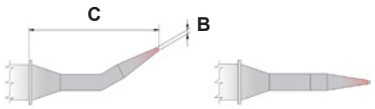
BEVEL / HOOF

	A		C	
Part Number	MM	IN.	MM	IN.
K75BV011	1.10	0.04"	13.40	0.53"
K75BVF010	1.10	0.04"	13.40	0.53"
K75BV020	2.00	0.08"	17.00	0.67"
K75BVF020	2.00	0.08"	17.00	0.67"
K75BV030	3.30	0.13"	13.00	0.51"
K75BVF030	3.30	0.13"	13.00	0.51"
K75BV040	4.00	0.16"	17.00	0.67"
K75DS023	3.10	0.12"	18.20	0.72"
K75WV031	3.10	0.12"	16.40	0.65"
K75WV080	8.00	0.31"	11.00	0.43"
P75BV010	1.00	0.04"	13.40	0.53"
P75BV030	3.30	0.13"	13.00	0.51"
P75WV020	2.00	0.08"	13.00	0.51"
P75WV031	3.10	0.12"	16.40	0.65"
S75BV011	1.10	0.04"	13.40	0.53"
S75BV020	2.00	0.08"	17.00	0.67"
S75BV030	3.30	0.13"	13.00	0.51"
S75BV040	4.00	0.16"	17.00	0.67"
S75DS023	3.10	0.12"	18.20	0.72"
S75WV031	3.10	0.12"	16.40	0.65"
S75WV080	8.00	0.31"	11.00	0.43"



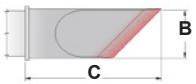
CONICAL

	A		C	
Part Number	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"
P75C004	0.40	0.016"	10.40	0.41"
P75C010	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"



CONICAL BENT

	B		C	
Part Number	MM	IN.	MM	IN.
K75SB005	0.51	0.02"	11.80	0.46"
K75SB005A	0.50	0.02"	13.60	0.54"
S75SB005	0.51	0.02"	11.80	0.46"
S75SB005A	0.50	0.02"	13.60	0.54"



KNIFE

	B		C	
Part Number	MM	IN.	MM	IN.
K75DS045	4.50	0.18"	16.65	0.66"
K75DS061	4.50	0.18"	16.65	0.66"
P75K047	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"

*refer to page 4 for K series Micro Fine tips

60 = Temperature Sensitive 75 = Standard Applications 80 = High Performance

THERMALTRONICS

DS-KIT

Desoldering Kit

DS-KIT

ESD SAFE LEAD FREE

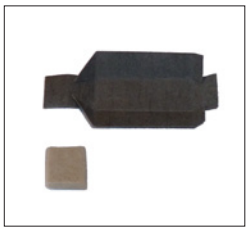
Thermaltronics DS-KIT desoldering kit uses shop air to create a powerful air vacuum to clean through-holes quickly and efficiently. Cleaning and maintenance is quick and easy with the use of replaceable filter wools (DS-FW-1) and chamber liners (DS-CL-1).

- Uses Thermaltronics DT Series Desoldering Tips.
- High thermal recovery & performance.
- Easy and simple maintenance.

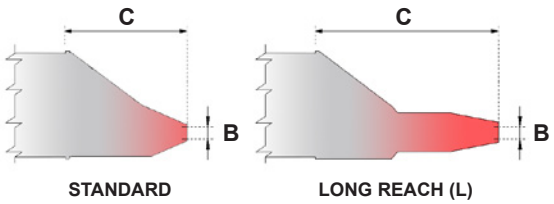
DESOLDERING KIT INCLUDES

	DS-KIT-1*	DS-KIT-2*	DS-KIT-3*
Desoldering 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
Desoldering Gun	DS-GUN-1	DS-GUN-2	DS-GUN-3
Desoldering 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
Desoldering Gun Workstand	SHH-3	SHH-3	SHH-3

*DS-KIT-1 for use on TMT-9000S, DS-KIT-2 for use on TMT-5000S, DS-KIT-3 for use on TMT-2000S



DESOLDERING TIPS



STANDARD LONG REACH (L)

TMT-5000S

Part Number	B MM	B IN.	C MM	C IN.
T75DT003	0.80	0.03"	13.00	0.51"
T75DT003L	0.80	0.03"	18.00	0.71"
T75DT004	1.10	0.04"	13.00	0.51"
T75DT004L	1.10	0.04"	18.00	0.71"
T75DT005	1.35	0.05"	13.00	0.51"
T75DT005L	1.35	0.05"	18.00	0.71"
T75DT006	1.50	0.06"	13.00	0.51"
T75DT007	2.40	0.095"	13.00	0.51"

TMT-9000S

Part Number	B MM	B IN.	C MM	C IN.
M80DT003	0.80	0.03"	13.00	0.51"
M80DT003L	0.80	0.03"	18.00	0.71"
M80DT004	1.10	0.04"	13.00	0.51"
M80DT004L	1.10	0.04"	18.00	0.71"
M80DT005	1.35	0.05"	13.00	0.51"
M80DT005L	1.35	0.05"	18.00	0.71"
M80DT006	1.50	0.06"	13.00	0.51"
M80DT007	2.40	0.095"	13.00	0.51"

TMT-2000S

Part Number	B MM	B IN.	C MM	C IN.
K60DT003	0.80	0.03"	13.00	0.51"
K60DT003L	0.80	0.03"	18.00	0.71"
K60DT004	1.10	0.04"	13.00	0.51"
K60DT004L	1.10	0.04"	18.00	0.71"
K60DT005	1.35	0.05"	13.00	0.51"
K60DT005L	1.35	0.05"	18.00	0.71"
K60DT006	1.50	0.06"	13.00	0.51"
K60DT007	2.40	0.095"	13.00	0.51"

THERMALTRONICS

TZ-KIT

Tweezers Kit

TZ-KIT

ESD SAFE LEAD FREE

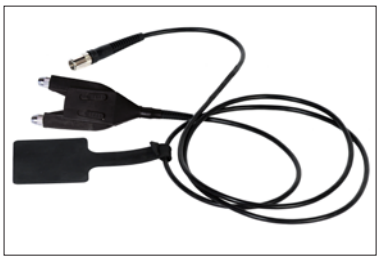
Thermaltronics TZ-KIT tweezers handpiece is ergonomically designed for reworking even the smallest components. Allows locking of both arms and adjustment of tips horizontally and vertically.

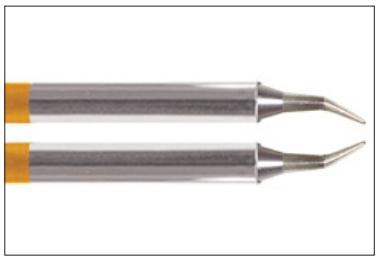
- Uses Thermaltronics TZ Series Tweezers Tips.
- Dual lockable arms.
- Adjustable alignment of tips in x-y directions.

TWEEZERS KIT INCLUDES

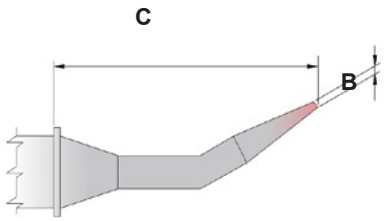
	TZ-KIT-1*	TZ-KIT-2*	TZ-KIT-3*
Tweezers Handpiece	SHP-MTZ	SHP-TTZ	SHP-KTZ
Tweezers Workstand	SHH-MTZ	SHH-TTZ	SHH-KTZ

*TZ-KIT-1 for use on TMT-9000S, TZ-KIT-2 for use on TMT-5000S, TZ-KIT-3 for use on TMT-2000S





TWEEZERS TIPS



TMT-5000S

	B		C	
Part Number	MM	IN.	MM	IN.
T70TZ003	0.25	0.01"	13.40	0.53"
T70TZ004	0.40	0.016"	16.00	0.63"
T70TZ010	1.00	0.04"	13.40	0.53"
T70TZ010B	1.00	0.04"	9.00	0.35"
T70TZ015	1.50	0.06"	12.00	0.47"
T70TZ018	1.78	0.07"	15.00	0.59"
T70TZ018B	1.78	0.07"	10.00	0.39"
T70TZ025	4.83	0.19"	16.40	0.65"
T70TZ100	10.41	0.42"	9.00	0.35"
T70TZ160	15.75	0.62"	9.00	0.35"
T70TZ220	22.10	0.87"	9.00	0.35"

TMT-9000S

	B		C	
Part Number	MM	IN.	MM	IN.
M80TZ003	0.25	0.01"	13.40	0.53"
M80TZ004	0.40	0.016"	16.00	0.63"
M80TZ010	1.00	0.04"	13.40	0.53"
M80TZ010B	1.00	0.04"	9.00	0.35"
M80TZ015	1.50	0.06"	12.00	0.47"
M80TZ018	1.78	0.07"	15.00	0.59"
M80TZ018B	1.78	0.07"	10.00	0.39"
M80TZ025	4.83	0.19"	16.40	0.65"
M80TZ100	10.41	0.42"	9.00	0.35"
M80TZ160	15.75	0.62"	9.00	0.35"
M80TZ220	22.10	0.87"	9.00	0.35"

TMT-2000S

	B		C	
Part Number	MM	IN.	MM	IN.
K60TZ003	0.25	0.01"	13.40	0.53"
K60TZ004	0.40	0.016"	16.00	0.63"
K60TZ010	1.00	0.04"	13.40	0.53"
K60TZ010B	1.00	0.04"	9.00	0.35"
K60TZ015	1.50	0.06"	12.00	0.47"
K60TZ018	1.78	0.07"	15.00	0.59"
K60TZ018B	1.78	0.07"	10.00	0.39"
K60TZ025	4.83	0.19"	16.40	0.65"
K60TZ100	10.41	0.42"	9.00	0.35"
K60TZ160	15.75	0.62"	9.00	0.35"
K60TZ220	22.10	0.87"	9.00	0.35"

THERMALTRONICS

ACCESSORIES

Hot Air Pencil

TMT-HAIOO

ESD SAFE LEAD FREE

The TMT-HA100 hot air pencil is designed to remove and reflow small precision components, integrated circuits and other smaller devices.

- ESD safe design with integrated ground
- Specialized for work on precision components.
- Uses HAP Series Hot Air Pencil Nozzles
- High quality heating element ensures fast heat up and long heater life

TMT-HAIOO SPECIFICATIONS

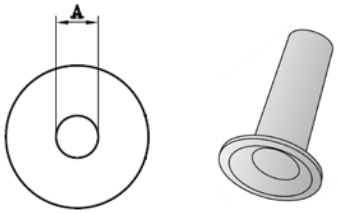
Input Line Voltage:	TMT-HA100-1	100-110 VAC
	TMT-HA100	220-240 VAC
Power:		200 Watts
Temperature Range:		100 °C - 450 °C
Pump:		Diaphragm Pump
Airflow (Max):		10L / min
Fuse:	TMT-HA100-1	250V 3A
	TMT-HA100	250V 1.5A
Size (W x H x D):		130mm x 215mm x 130mm
Weight:		3.1 KG

PACKING LIST

TMT-HA100	Hot Air Pencil
HAP-D15	Nozzle 1.5mm (0.06")
HAP-D20	Nozzle 2.0mm (0.08")
HAP-D25	Nozzle 2.5mm (0.10")
HAP-D30	Nozzle 3.0mm (0.12")
HAP-D35	Nozzle 3.5mm (0.14")
HAP-D40	Nozzle 4.0mm (0.16")
SHH-HAP	Workstand

CERTIFICATION MARKS

HAP NOZZLES - HOT AIR PENCIL



		A	
Part Number	**Description**	**MM**	**IN.**
HAP-D15	Nozzle 1.5mm (0.06")	1.50	0.06"
HAP-D20	Nozzle 2.0mm (0.08")	2.00	0.08"
HAP-D25	Nozzle 2.5mm (0.10")	2.50	0.10"
HAP-D30	Nozzle 3.0mm (0.12")	3.00	0.12"
HAP-D35	Nozzle 3.5mm (0.14")	3.50	0.14"
HAP-D40	Nozzle 4.0mm (0.16")	4.00	0.16"

THERMALTRONICS

ACCESSORIES

Hot Air Tools

TMT-HA050

ESD SAFE LEAD FREE

The TMT-HA050 hot air tool can be used for the removal of surface mount components such as SOIC, QFP, PLCC and other similar devices.

- Digital display shows temperature and air flow
- Light, portable, plug and use tool
- Uses HTN Series Hot Air Nozzles
- Convection heating allowing low pressure hot air to focus on the solder joints

TMT-HA050 SPECIFICATIONS

Input Line Voltage:	220-240 VAC
Power:	600 Watts
Temperature Range:	100 °C - 480 °C
Pump:	Turbine Motor
Airflow (Max):	30L / min
Fuse:	250V 3A
Size (W x H x D):	65mm x 265mm
Weight:	1 KG

PACKING LIST

TMT-HA050	Hot Air Tool
HTN-D30	Nozzle 3.0mm (0.12")
HTN-D50	Nozzle 5.0mm (0.20")
HTN-D80	Nozzle 8.0mm (0.31")
HTN-D100	Nozzle 10.0mm (0.39")
HA-HE050	Heating Element

CERTIFICATION MARK CE

TMT-HA200

ESD SAFE LEAD FREE

The TMT-HA200 hot air tool can be used for the removal and reflow of surface mount components such as SOIC, QFP PLCC and other similar devices.

- Large selection of high quality nozzles
- Adjustable, easy to use temp and air control knobs
- Uses HTN Series Hot Air Nozzles
- Auto sleep activated when hot air tool is placed in the holder.

TMT-HA200 SPECIFICATIONS

Input Line Voltage:	220-240 VAC
Power:	600 Watts
Temperature Range:	100 °C - 480 °C
Pump:	Turbine Fan
Airflow (Max):	35L / min
Fuse:	250V 3A
Size (W x H x D):	112mm x 205mm x 117mm
Weight:	2.40 KG

PACKING LIST

TMT-HA200	Hot Air Tool
HTN-D30	Nozzle 3.0mm (0.12")
HTN-D50	Nozzle 5.0mm (0.20")
HTN-D80	Nozzle 8.0mm (0.31")
HTN-D100	Nozzle 10.0mm (0.39")
HA-HE200	Heating Element

CERTIFICATION MARK CE

THERMALTRONICS

ACCESSORIES

Hot Air Tools

TMT-HA300

ESD SAFE LEAD FREE

The TMT-HA300 hot air tool uses a large diaphragm pump and can be used for the removal and reflow of surface mount components such as SOIC, QFP, PLCC and other similar devices.

- Digital display shows temperature and status.
- Airflow meter provides visual feedback of air flow.
- Adjustable, easy to use temp and air control knobs
- Uses HTN Series Hot Air Nozzles

TMT-HA300 SPECIFICATIONS

Input Line Voltage:	TMT-HA300-1	100-110 VAC
	TMT-HA300	220-240 VAC
Power:		500 Watts
Temperature Range:		100 °C - 480 °C
Pump:		Diaphragm Pump
Airflow (Max):		23L / min
Fuse:	TMT-HA300-1	250V 5A
	TMT-HA300	250V 3A
Size (W x H x D):		188mm x 127mm x 246mm
Weight:		3.00 KG

PACKING LIST

TMT-HA300	Hot Air Tool
HTN-D30	Nozzle 3.0mm (0.12")
HTN-D50	Nozzle 5.0mm (0.20")
HTN-D80	Nozzle 8.0mm (0.31")
HTN-D100	Nozzle 10.0mm (0.39")
HA-HE300	Heating Element

CERTIFICATION MARK

TMT-HA600

ESD SAFE LEAD FREE

The TMT-HA600 hot air tool uses a large diaphragm pump and a high power 1300W heater, designed to work on more difficult applications, in the removal and reflow of surface mount components.

- Fast heating and temperature recovery
- Simple controls allow easy adjustment.
- Uses HTN Series Hot Air Nozzles
- Digital display with easy-to-adjust temp and airflow

TMT-HA600 SPECIFICATIONS

Input Line Voltage:	TMT-HA600-1	100-110 VAC
	TMT-HA600-2	220-240 VAC
Power:		1300 Watts
Temperature Range:		100 °C - 480 °C
Pump:		Diaphragm Pump
Airflow (Max):		23L / min
Fuse:	TMT-HA600-1	250V 15A
	TMT-HA600-2	250V 8A
Size (W x H x D):		188mm x 127mm x 246mm
Weight:		3.00 KG

PACKING LIST

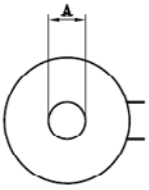
TMT-HA600	Hot Air Tool
HTN-D50	Nozzle 5.0mm (0.20")
HTN-D80	Nozzle 8.0mm (0.31")
HTN-D100	Nozzle 10.0mm (0.39")
HTN-D120	Nozzle 12.0mm (0.47")
HA-HE600	Heating Element

CERTIFICATION MARK

THERMALTRONICS

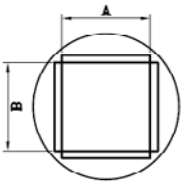
ACCESSORIES

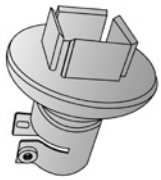
HTN Series Hot Air Nozzles



Nozzles - Standard

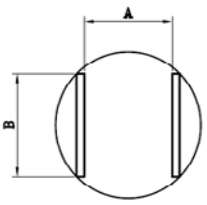
		A	
Part Number	Description	MM	IN.
HTN-D30	Nozzle 3.0mm	3.0	0.12”
HTN-D50	Nozzle 5.0mm	5.0	0.20”
HTN-D80	Nozzle 8.0mm	8.0	0.31”
HTN-D100	Nozzle 10.0mm	10.0	0.39”
HTN-D120	Nozzle 12.0mm	12.0	0.47”





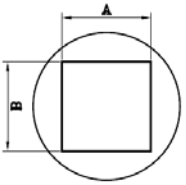
Nozzles - PLCC, BQFP, QFP

		A		B	
Part Number	Description	MM	IN.	MM	IN.
HTN-PL20	Nozzle 11.9mm x 11.9mm, PLCC-20	11.9	0.47”	11.9	0.47”
HTN-PL28	Nozzle 14.5mm x 14.5mm, PLCC-28	14.5	0.57”	14.5	0.57”
HTN-PL32	Nozzle 16.9mm x 14.3mm, PLCC-32	16.9	0.67”	14.3	0.56”
HTN-PL44	Nozzle 19.5mm x 19.5mm, PLCC-44	19.5	0.77”	19.5	0.77”
HTN-PL52	Nozzle 22.0mm x 22.0mm, PLCC-52	22.0	0.87”	22.0	0.87”
HTN-PL68	Nozzle 27.0mm x 27.2mm, PLCC-68	27.0	1.06”	27.2	1.07”
HTN-PL84	Nozzle 32.4mm x 32.4mm, PLCC-84	32.4	1.28”	32.4	1.28”
HTN-QF48	Nozzle 8.4mm x 8.4mm, QFP-48	8.4	0.33”	8.4	0.33”
HTN-QF44	Nozzle 13.4mm x 13.4mm, QFP-44	13.4	0.53”	13.4	0.53”
HTN-QF80	Nozzle 17.3mm x 17.3mm, QFP-52,80	17.3	0.68”	17.3	0.68”
HTN-QF100	Nozzle 23.4mm x 18.1mm, QFP-64,80,100	23.4	0.92”	18.1	0.71”
HTN-QF160	Nozzle 31.2mm x 31.2mm, QFP-120,128,144,160	31.2	1.23”	31.2	1.23”
HTN-BQ100	Nozzle 22.4mm x 22.4mm, BQFP-100	22.4	0.88”	22.4	0.88”
HTN-QF240	Nozzle 34.5mm x 34.5mm, QFP-240	34.5	1.36”	34.5	1.36”
HTN-BQ196	Nozzle 37.7mm x 37.7mm, BQFP-196	37.7	1.48”	37.7	1.48”
HTN-QF208	Nozzle 29.8mm x 29.8mm, QFP-208	29.8	1.17”	29.8	1.17”



Nozzles - SOIC, TSOP

		A		B	
Part Number	Description	MM	IN.	MM	IN.
HTN-SC16	Nozzle 6.8mm x 10.2mm, SOIC 14, 16	6.8	0.27”	10.2	0.40”
HTN-SL16	Nozzle 10.6mm x 10.8mm, SOL 14, 16	10.6	0.42”	10.8	0.43”
HTN-SL20	Nozzle 10.6mm x 13.3mm, SOL 20, 20J	10.6	0.42”	13.3	0.52”
HTN-SL24	Nozzle 10.6mm x 15.9mm, SOL 24, 24J	10.6	0.42”	15.9	0.63”
HTN-SL28	Nozzle 10.6mm x 18.4mm, SOL 28	10.6	0.42”	18.4	0.72”
HTN-SL44	Nozzle 16.0mm x 27.9mm, SOL 44	16.0	0.63”	27.9	1.10”
HTN-SJ32	Nozzle 13.5mm x 20.6mm, SOJ 32	13.5	0.53”	20.6	0.81”
HTN-SJ40	Nozzle 13.5mm x 25.4mm, SOJ 40	13.5	0.53”	25.4	1.00”
HTN-TS24	Nozzle 17.0mm x 7.1mm, TSOP 20-24 PIN	17.0	0.67”	7.1	0.28”
HTN-TS32	Nozzle 21.0mm x 9.1mm, TSOP 28-32 PIN	21.0	0.83”	9.1	0.36”
HTN-TS40	Nozzle 21.0mm x 10.8, TSOP 40 PIN	21.0	0.83”	10.8	0.43”
HTN-TS48	Nozzle 21.0mm x 13.3mm, TSOP 48 PIN	21.0	0.83”	13.3	0.52”
HTN-TS24B	Nozzle 10.2mm x 18.4mm, TSOP 20-24 PIN	10.2	0.40”	18.4	0.72”
HTN-TS44	Nozzle 12.7mm x 19.8mm, TSOP 24-28/40-44 PIN	12.7	0.50”	19.8	0.78”



Nozzles - BGA

		A		B	
Part Number	Description	MM	IN.	MM	IN.
HTN-B1010	Nozzle 10.0mm x 10.0mm	10.0	0.39”	10.0	0.39”
HTN-B1313	Nozzle 13.0mm x 13.0mm	13.0	0.51”	13.0	0.51”
HTN-B1616	Nozzle 16.0mm x 16.0mm	16.0	0.63”	16.0	0.63”
HTN-B1919	Nozzle 19.0mm x 19.0mm	19.0	0.75”	19.0	0.75”
HTN-B2828	Nozzle 28.0mm x 28.0mm	28.0	1.10”	28.0	1.10”
HTN-B3030	Nozzle 30.0mm x 30.0mm	30.0	1.18”	30.0	1.18”
HTN-B3232	Nozzle 32.0mm x 32.0mm	32.0	1.26”	32.0	1.26”
HTN-B3636	Nozzle 36.0mm x 36.0mm	36.0	1.42”	36.0	1.42”
HTN-B3939	Nozzle 39.0mm x 39.0mm	39.0	1.54”	39.0	1.54”
HTN-B4141	Nozzle 41.0mm x 41.0mm	41.0	1.61”	41.0	1.61”
HTN-B4343	Nozzle 43.0mm x 43.0mm	43.0	1.69”	43.0	1.69”
HTN-B4545	Nozzle 45.0mm x 45.0mm	45.0	1.77”	45.0	1.77”

THERMALTRONICS

ACCESSORIES

Preheaters

TMT-PH200

ESD SAFE LEAD FREE

The TMT-PH200 infrared, board preheater is suitable for leaded and lead free, applications. A sensor controlled feedback loop system with digital display enables easy adjustment of temperature.

- Adjustable, easy to use temperature control knob
- Digital display shows temperature
- Utilizes a quartz infrared heater
- Sensor control feedback loop to control temperature

TMT-PH200 SPECIFICATIONS

Input Line Voltage:	220-240 VAC
Power:	600 Watts
Temperature Range:	100 °C - 380 °C
Heating Area (W x L):	130mm x 130mm
Heating Method:	Infrared
Fuse:	250V 5A
Size (W x H x D):	220mm x 73mm x 250mm
Weight:	2.1 KG

PACKING LIST

TMT-PH200	IR Preheater

CERTIFICATION MARK

CE

TMT-PH300

ESD SAFE LEAD FREE

The TMT-PH300 uses advanced, intelligent, control technology to accurately regulate the temperature of the infrared board preheater. Three heating modes allow the system to manage both leaded and lead free applications.

- Microprocessor accurately regulates temperature
- Two external temperature sensor probes
- Professional board holder allows 3D adjustments
- Three heating modes to meet different requirements

TMT-PH300 SPECIFICATIONS

Input Line Voltage:	TMT-PH300-1	100-110 VAC, 1000 Watts
	TMT-PH300	220-240 VAC, 850 Watts
Temperature Range:		50°C - 400°C
Heating Area (W x L):		200mm x 250mm
Heating Method:		Infrared
Fuse:	TMT-PH300-1	250V 15A
	TMT-PH300	250V 8A
Size (W x H x D):		260mm x 90mm x 410mm
Weight:		3.8 KG

PACKING LIST

TMT-PH300	IR Preheater
PH-KTC-1	Thermocouples - 2 Pack

CERTIFICATION MARK

CE ETL LISTED

*Optional: For extra large applications please use the TMT-PH600 preheater.

THERMALTRONICS

ACCESSORIES

Preheater, Fume Extraction

TMT-PH600

ESD SAFE LEAD FREE

The TMT-PH600 uses advanced, intelligent, control technology to accurately regulate the temperature of the infrared board preheater. Three heating modes allow the system to manage both leaded and lead free applications.

- Microprocessor accurately regulates temperature
- Two external temperature sensor probes
- Professional board holder allows 3D adjustments
- Three heating modes to meet different requirements

TMT-PH600 SPECIFICATIONS

Input Line Voltage:	TMT-PH600-1	100-110 VAC, 2000 Watts
	TMT-PH600-2	220-240 VAC, 1500 Watts
Temperature Range:		50°C - 400°C
Heating Area (W x L):		310mm x 310mm
Heating Method:		Infrared
Fuse:	TMT-PH600-1	250V 16A
	TMT-PH600-2	250V 10A
Size (W x H x D):		520mm x 380mm x 100mm
Weight:		9 KG

PACKING LIST

TMT-PH600	IR Preheater
PH-KTC-1	Thermocouples - 2 Pack

CERTIFICATION MARK

CE ETL LISTED

TMT-FE100S

ESD SAFE LEAD FREE

The Thermaltronics TMT-FE100S fume extraction unit, takes up minimal benchtop space but is inclusive of a prefilter and a separate HEPA filter, to ensure operator safety. Fan speed can also be adjusted, based on the proximity of the soldering operation or the amount of fumes being generated.

- HEPA filtration ensuring operator safety
- Light & compact, takes up minimal benchtop space
- Adjustable, easy to use fan speed control

TMT-FE100S SPECIFICATIONS

Input Line Voltage:	TMT-FE100S-1	100-110 VAC
	TMT-FE100S-2	220-240 VAC
HEPA Efficiency:	FE-MF100	90% at 0.3 micron
	FE-MF199	99% at 0.3 micron (optional)
Fan Capacity:		5.0 m³ / min
Air Flow:		50 CFM
Fuse:	TMT-FE100S-1	250V 1.0A
	TMT-FE100S-2	250V 0.5A
Size (W x H x D):		166mm x 205mm x 142mm
Weight:		2 KG

PACKING LIST

TMT-FE100S	Fume Extraction System
FE-PF100	Pre-filter
FE-MF100	Main Filter

CERTIFICATION MARKS

CE TÜV SÜD NRTL C US

*Tested & certified by TUV-SUD

THERMALTRONICS

ACCESSORIES

Auto Solder Feeder, Tip Tester

AF-KIT

ESD SAFE LEAD FREE

Thermaltronics AF-KIT auto solder feeder kit provides for single handed operation during soldering applications. The kit is provided as an accessory to existing Thermaltronics hand soldering tools.

- Adjustable speed, feed length
- Adjustable feed retraction
- Use of step motor allows precision control
- Increases efficiency

AUTO SOLDER FEEDER KIT INCLUDES

	AF-KIT-1*	AF-KIT-2*	AF-KIT-3*
Auto Feeder	TMT-AF100	TMT-AF100	TMT-AF100
Handpiece Holder	AF-HDL-1	AF-HDL-2	AF-HDL-3
Guide Pipe Assembly	AF-HPK-1	AF-HPK-2	AF-HPK-3
Auto Feeder Nozzle Pack	AF-NOZ-1	AF-NOZ-1	AF-NOZ-1
Auto Feeder Switch	AF-PEDAL-1	AF-PEDAL-1	AF-PEDAL-1
AC Power Adapter	AF-POWER-1	AF-POWER-1	AF-POWER-1

*AF-KIT-1 for use on TMT-9000S, AF-KIT-2 for use on TMT-5000S, AF-KIT-3 for use on TMT-2000S

TMT-STIO

LEAD FREE

The TMT-ST10 is a three-in-one tip tester, providing tip temperature measurement, tip to ground resistance and tip to ground AC voltage leakage. Test data can be easily saved to memory and exported for data analysis.

- Data save and export
- Lightweight and easy to use.
- Accurately test tip temperature
- Accurately test tip to ground resistance and tip to ground AC leakage.

TMT-STIO SPECIFICATIONS

Voltage:	9V Battery
Temperature Precision:	±3°C / ±6°F
Temperature Sensor:	K Type Thermocouple
Voltage Measurement Range:	0 to 100mV (AC)
Resistance Range:	0 to 100Ω
Size (W x H x D):	85mm x 175mm x 48mm
Weight:	0.35 KG

PACKING LIST

TMT-ST10	Tip Tester
ST-GWIRE-1	Ground wire
ST-CABLE-X[1]	Mini USB Data Cable

[1]ST-GWIRE-1 = EU Plug, ST-GWIRE-2 = US Plug, ST-GWIRE-3 = CN Plug

THERMALTRONICS

ACCESSORIES

Tip Cleaner, Tip Tinner, Solder Spool Holder

TMT-ASTC100

ESD SAFE LEAD FREE

The TMT-ASTC automatic solder tip cleaner helps rework badly oxidized tips. Two high quality brass brushes, which revolve in opposite directions, aid in the removal of oxidisation from the soldering tip.

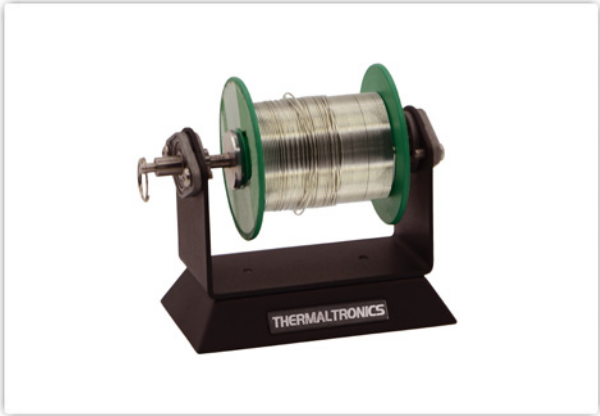
- Removes tip oxidation
- Light & compact, takes up minimal benchtop space
- Easy to clean and maintain

TMT-TC-2

LEAD FREE

The TMT-TC-2 Tip Tinners is a compressed tablet of pure tin and ammonia phosphate formulation in a metal container with lid. It has a self adhesive pad on the underside to allow it to be affixed on, or near the work station.

- Removes tip oxidation
- No-Clean compatible formulation
- Minimal residues
- Rapidly re-tins badly oxidised soldering iron tips.



TMT-SSH100

ESD SAFE LEAD FREE

The TMT-SSH100 Solder spool holder utilizes a high quality ball bearing system that helps to smoothly and quickly dispense solder wire.

- ESD Safe
- Ball bearing movement system
- Eliminates operator downtime, continuously dispenses solder wire

THERMALTRONICS

TMT-R9800S

Robot Soldering System

TMT-R9800S

ESD FREE LEAD FREE

The Thermaltronics Robot System incorporates innovative design concepts and precision components to ensure accuracy. The combination of high precision hardware and intelligent software ensures precision soldering and low operator training costs.

- Six Axis Soldering/Dispensing Platform
- Full vision mapping & Fiducial Marks
- Laser Height Measurement
- Curie Heat provides precise temp. control
- Fume extraction

TMT-R9800S FEATURES

1. Unlike typical Cartesian robots the Thermaltronics Robot, Model TMT-R9800S, is equipped with full vision, (eyes) to verify the procedure being undertaken and does not simply follow a pre-determined program. In this respect it has an observation mode, a verification mode and as a result – a decision making capability. (Basically a brain). This capability of collecting and utilizing data for production processing is one of the most important factors necessary to meet the requirements of Industry 4.0 standards.

2. Through the use of servo motors and precision ballscrews, the Thermaltronics Robotic system is able to accurately meet the requirements of high speed operation, repeatability and durability. The software is designed to transform system commands into functional operating procedures and with its 6-axis capability, 360° independent fixture rotation, solder tip and solder wire feeding operation from separate axis control, the applications extend beyond conventional soldering and dispensing operations.

3. Application programming is made simple by using full image-merging and mapping techniques.

4. Dynamic laser height measurement/adaptive control, ensures precision soldering repeatability.

5. A full vision mapping system with fiducial marks, provides for intelligent decision making during procedural operations

THERMALTRONICS

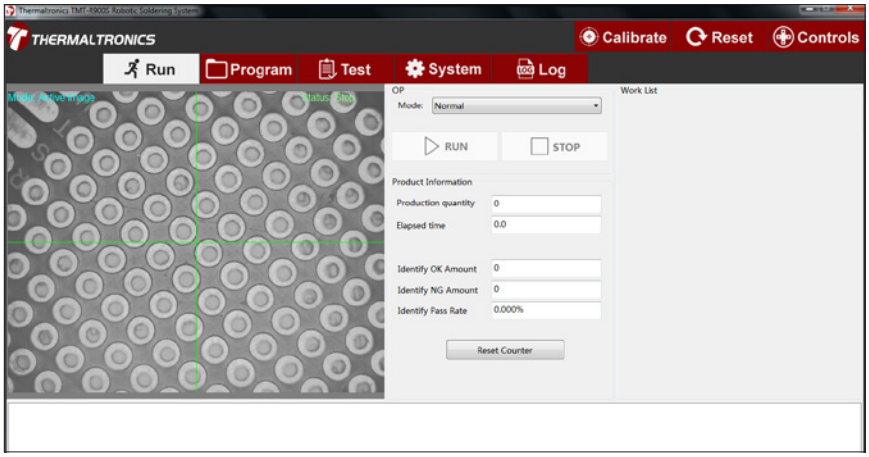
TMT-R9800S

Robot Soldering System

TMT-R9800S SPECIFICATIONS

Input Line Voltage	TMT-R9800PS-1	100-110 VAC
	TMT-R9800PS-2	220-240 VAC
Servo Motor Axis	6 Axis	
Camera View	290mm x 200mm	
PCBA Size Max	200mm x 200mm with rotation	
Soldering Region Max	190mm x 170mm	
Dynamic Range of Shaft	X Axis	290mm Standard
	Y Axis	200mm Standard
	Z1, Z2 Axis	70mm
	R Axis	360°
Shaft Speed	X, Y & Z Axis	0.1 ~ 300 mm/sec
	R Axis	0.1 ~ 450°/sec
Positioning Repeatability	X, Y & Z Axis	±0.01 mm
	R Axis	±0.02°
Camera resolution	0.015mm	
Air Pressure	Max. 6 Bar/ 87 psi	
Solder wire diameter range	0.3 ~ 1.6 (mm)	
Controller	Industrial Computer	
Operating System	Windows 7 Professional	
Soldering System	120 watts (40 watts RF output)	
Curie Heat Technology	320C ~ 475C (Tip cartridge pre-defined)	
Power Supply	100 ~ 240V AC	
Power Consumption	1 KVA	
Dimensions	800mm (H) x 702mm (D) x 620mm (W)	
Weight	125 KG	

SOFTWARE INTERFACE

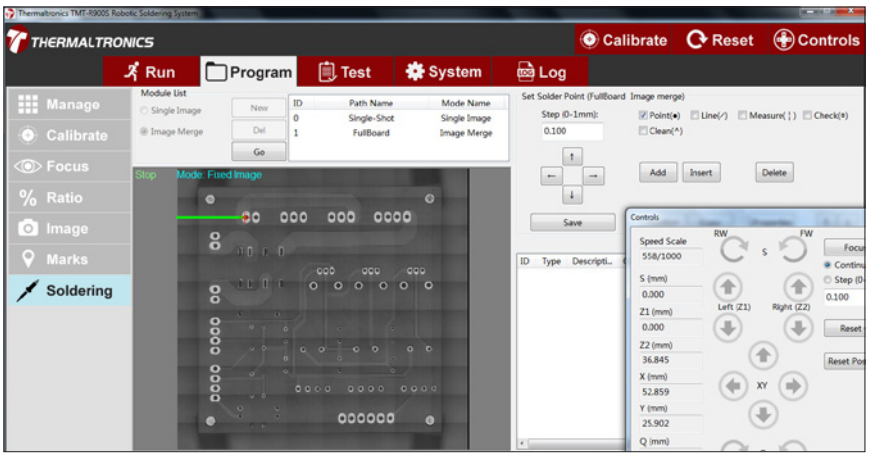


THERMALTRONICS

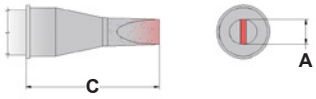
TMT-R9800S

Robot Soldering System

SOFTWARE INTERFACE

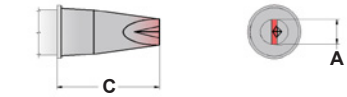


R SERIES TIP CARTRIDGES



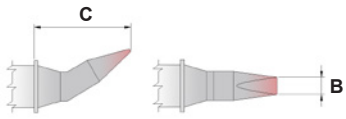
CHISEL

Part Number	A MM	A IN.	C MM	C IN.
R7CH012	1.20	0.05"	13.00	0.51"
R7CH016	1.60	0.06"	13.00	0.51"
R7CH024	2.40	0.09"	13.00	0.51"
R7CH030	3.00	0.12"	11.00	0.43"
R7CH038	3.80	0.15"	22.00	0.87"
R7CH052	5.20	0.20"	12.00	0.47"
R7CH175	2.50	0.10"	10.00	0.39"
R7CH176	1.78	0.07"	10.00	0.39"
R7CH177	1.50	0.06"	10.00	0.39"
R7CH178	1.00	0.04"	9.00	0.35"
R7CH179	1.00	0.04"	6.40	0.25"
R7CH180	3.00	0.12"	8.90	0.35"
R7CH181	3.00	0.12"	5.20	0.20"
R7CH250	5.00	0.20"	7.50	0.30"
R7CP200	2.50	0.10"	6.40	0.25"
R7CP201	1.80	0.07"	6.40	0.25"
R7CP202	1.50	0.06"	6.40	0.25"
R7LC650	5.00	0.20"	11.40	0.45"
R7LR403	1.78	0.07"	15.00	0.59"



CHISEL W/GROOVE

Part Number	A MM	A IN.	C MM	C IN.
R7BCV020	2.00	0.08"	9.00	0.35"
R7BCV024	2.40	0.09"	9.00	0.35"
R7BCV030	3.00	0.12"	9.00	0.35"
R7DV016	1.60	0.06"	9.00	0.35"
R7DV020	2.00	0.08"	9.00	0.35"
R7DV024	2.40	0.09"	9.00	0.35"
R7DV030	3.00	0.12"	9.00	0.35"



CHISEL BENT

Part Number	B MM	B IN.	C MM	C IN.
R7CB225	1.78	0.07"	10.00	0.39"
R7CB226	1.50	0.06"	12.00	0.47"

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

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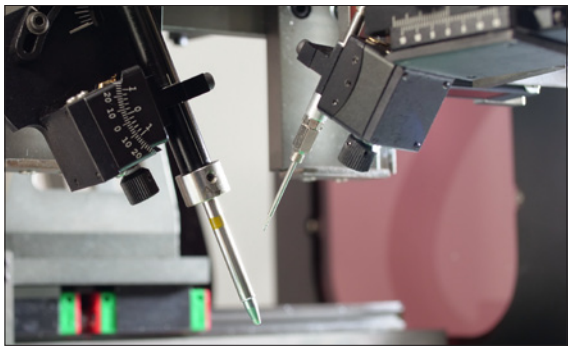
TMT-R9800S

Robot Soldering System

HARDWARE FEATURES

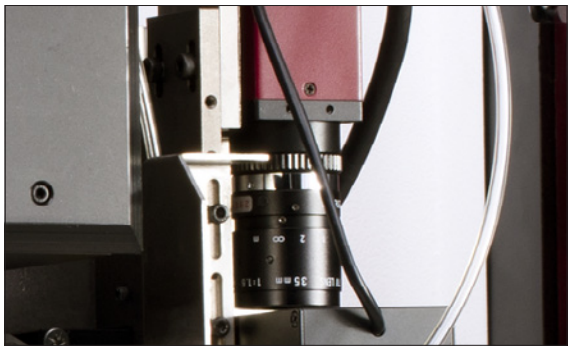
DUAL ARM SYSTEM

- Soldering Tip and Solder Wire Feeder are located on two different arms, this simulates the operator's soldering process.



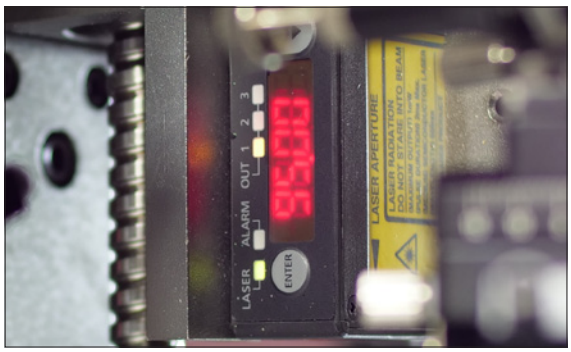
VISION SYSTEM

- High resolution Camera for image recognition, scanning & fiducial marks.
- Programming is done on the image.



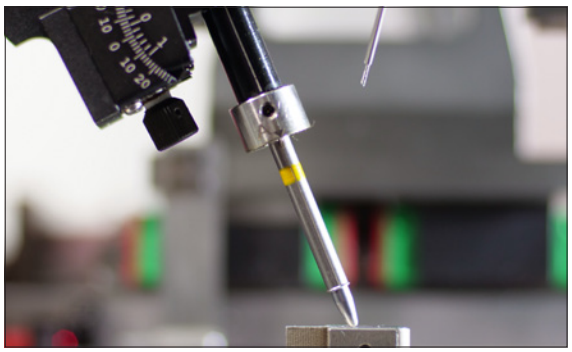
LASER HEIGHT MEASUREMENT

- Real time laser measurement eliminates height variance in soldering
- Check for missing parts & board warpage



SOLDER TIP CALIBRATION

- Easy to use tip calibration
- Maintain high accuracy & repeatability during soldering processes

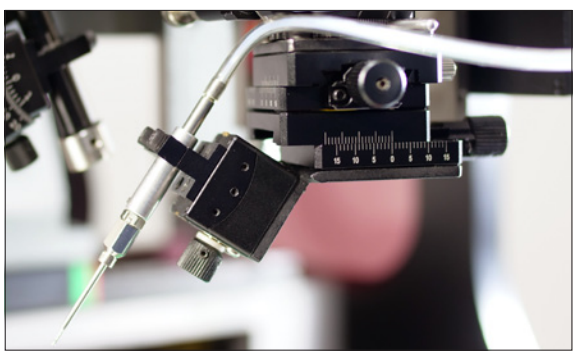


TIP CLEANING SYSTEM

- Two types of cleaning: air blower & brass brush
- Solder tip can move separately from the solder wire feeder

FINE TUNING

- Fine tuning system for solder tip and solder wire feeder
- Fast and accurate system setup



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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 470KHz. 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:

√ Color coded tips which provide full process control

√ 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

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