

勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-54151736  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

TSX70  
SOLDAVAC  
SMT Reflow  
Vacuum  
Workstation,  
Page 44



**MULTI-TASKING**

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# TSX70 SOLDAVAC®

## SMT Reflow Vacuum Workstation



The world's most practical workstation. User friendly and effective in site preparation for BGA's, PLCC's, QFP's and other fine pitch devices.



- Nitrogen can be used to reduce oxidation and bridging
- Dual controls for hot gas and tip temperatures to produce even heating of board
- Use for site preparation and reinstallation of QFP's
- Recommended and utilized by major manufacturers and subcontractors in high volume BGA programs

### Specifications for Model TSX70

<b>Power Requirements</b>	120V, 60Hz
<b>Power Rating</b>	39W - 330W
<b>Heater Rating</b>	24V, 45W and 24V, 70W
<b>Temperature Range</b>	400°F-800°F/205°C-427°C
<b>Temperature Regulation</b>	±6°F/±3°C
<b>Tip-to-Ground Voltage Leakage/Resistance</b>	< 2mV/< 2 ohms
<b>Overall Dimension</b>	5.8"W x 10"H x 8.8"D 147 mm x 254 mm x 224 mm
<b>Weight</b>	
<b>Power Supply</b>	TSX70-2 6.2 lbs/2.8 kg
<b>Desoldering Hand Tool</b>	TSX70-1 13.5 oz/383 g



### Contents

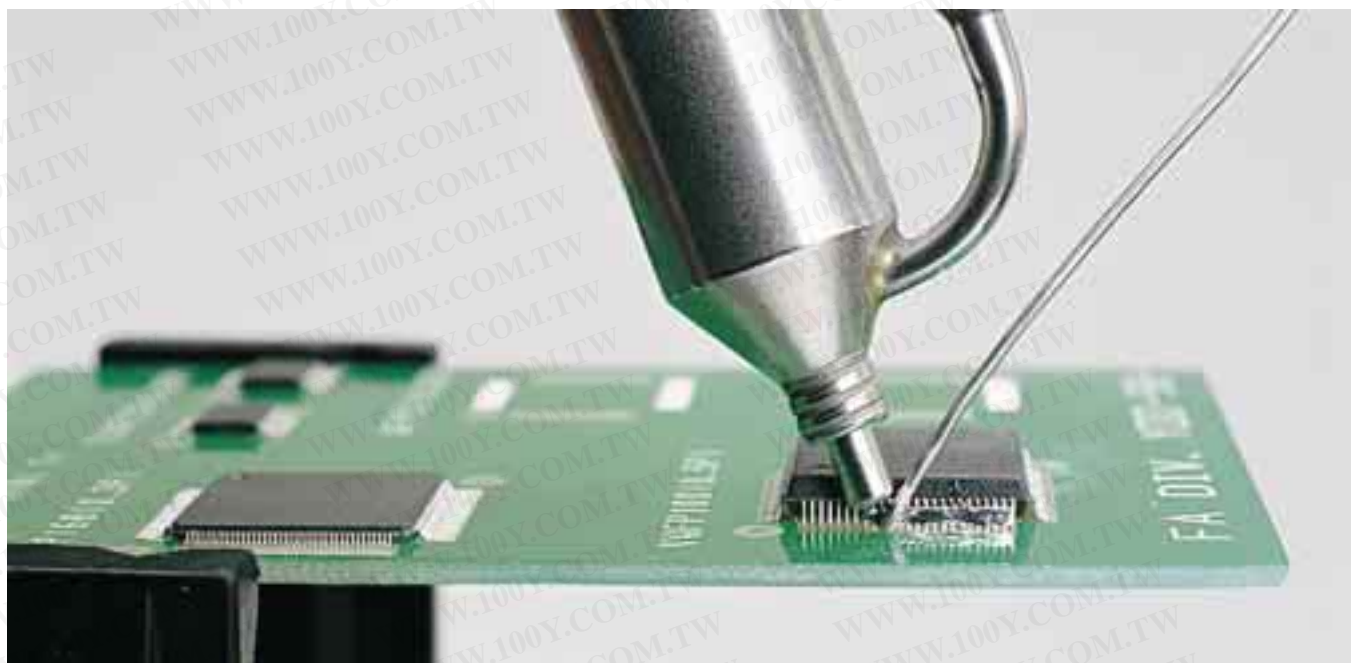
<b>TSX70-2</b>	Power Supply
<b>TSX70-1</b>	Solder Handling Tool (Includes TSX713 tip)
<b>Accessory Kit Includes:</b>	
WT623	Tip Wrench, Dual Open End, 1/4" & 3/4"
WT624	Tip Wrench, Dual Open End, 1/4" & 5/16"
WP556	WIGAPRY Low Static Computer Aid
MS229	Mica Sheet For TSX70-1
AF629	Felt Filter For AFX73
AF625	Felt Filter For TSX70-1
AF624	Felt and Foam Filter For AFX73
CSX70	Maintenance Tool With Cleaning Shaft
OL111	O-Ring Lube For Trigger Housing In TSX70-1

The TSX70 is very effective for preparation of BGA's.  
 Video available (part no. VT51).

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# TSX70 SOLDAVAC®

## SMT Reflow Vacuum Applications



The TSX70, with the TSX713 tip, can be used to reattach a surface mount component with solder wire and hot nitrogen or hot air.



The TSX70, with the TSX717 tip, can be used for reaching components partially hidden or located in crowded areas.

# ZD906

## SOLDAPULLT<sup>®</sup>

### ATMOSCOPE and LONER

### Shop Air Powered Rework Station

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This compact rework center includes a soldering tool, a powerful desoldering tool and a versatile hot air pencil for SMT rework applications. One station does it all.



- 60-90 psi clean and dry air supply required (requires 2 shop air inputs)
- Detachable handles for easy service
- Powerful heating elements for multi-layer boards and thick heat-sinks
- Ideal rework center for the technician needing soldering, desoldering and hot air in one small unit

#### Specifications for Model ZD906

<b>Power Requirements</b>	120V, 60Hz	
<b>Power Rating</b>	38W - 380W	
<b>Heater Rating</b>		
<b>HT500</b>	24V, 70W	
<b>LST11</b>	24V, 53W	
<b>FA069</b>	120V, 95W	
<b>Temperature Range</b>	400°F-800°F/205°C-427°C	
<b>Temperature Regulation</b>	±6°F/±3°C	
<b>Tip-to-Ground Voltage Leakage/Resistance</b>	< 2mV/< 2 ohms	
<b>Overall Dimension</b>	7.5"W x 9"H x 9.5"D 197 mm x 229 mm x 241 mm	
<b>Weight</b>		
<b>Power Supply</b>	PS902	5.4 lbs/2.4 kg
<b>Desoldering Hand Tool</b>	HT500	11 oz/312 g
<b>Hot Air Hand Tool</b>	FA069	6 oz/85 g
<b>Soldering Hand Tool</b>	LST11	3 oz/85 g

Desoldering

Hot Air

Soldering



#### Contents

<b>PS902</b>	Power Supply
<b>HT500</b>	Hot Tip Desoldering Hand Tool (Includes ZD13 tip)
<b>PM100</b>	Vacuum Generator
<b>PM200</b>	Pressure Regulator
<b>PD528</b>	Tool Pod
<b>FA069</b>	Hot Air Tool (Includes LT428 tip)
<b>LST11</b>	Soldering Hand Tool (Includes LT375 tip)

#### Accessory Kit Includes:

WT623	Tip Wrench, Dual Open End, 1/4" & 3/4"
WT619	Tip Wrench for Retaining Sleeve
WP556	WIGAPRY Low Static Computer Aid
WT620	Tip Wrench, 1/4" Socket
CS468	Tip Cleaning Shaft for Desoldering Tips
CS468-1	Tip Cleaning Shaft for Small Desoldering Tips
AN122	Anti-Seize Compound
OL111	O-Ring Lube
MS229	Mica Sheet for HT500
AF629	Felt Filter for AF110
AF625	Felt Filter for HT500
AF040	Foam Filter for AF110

# ZD905V/ZD905V-HP

## SOLDAPULLT<sup>®</sup> LONER Hot Tip Desoldering Stations

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A soldering/desoldering station designed for maximum performance with a minimum of bench space. Requires shop air.

### ZD905V



- Independent controls for both soldering and desoldering tools
- High performance in a small footprint
- Clean and dry shop air required, 60-90 psi
- **ZD905V-HP** has a high performance heater configuration for fast heat recovery

#### Specifications for Model ZD905V/ZD905V-HP

<b>Power Requirements</b>	120V, 60Hz
<b>Power Rating</b>	38W - 310W
<b>Heater Rating</b>	
HT500	24V, 70W
LST11	24V, 53W
LST12	24V, 45W
<b>Temperature Range</b>	400°F-800°F/205°C-427°C
<b>Temperature Regulation</b>	±6°F/±3°C
<b>Tip-to-Ground Voltage Leakage/Resistance</b>	< 2mV/< 2 ohms
<b>Overall Dimension</b>	5.5"W x 9"H x 9.5"D 140 mm x 229 mm x 241 mm
<b>Weight</b>	
Power Supply	PS902 4.5 lbs/2.0 kg
Desoldering Hand Tool	HT500 11 oz/312 g
Soldering Tool	LST11/12 3 oz/85 g

#### Contents

<b>PS902</b>	Power Supply
<b>HT500</b>	Hot Tip Desoldering Hand Tool (Includes ZD13 tip)
<b>PM100</b>	Vacuum Generator
<b>PD528</b>	Tool Pod
<b>LST11(ZD905V)</b>	Soldering Tool (Includes LT375)
<b>LST12(ZD905V-HP)</b>	Soldering Tool (Includes HP375)

#### Accessory Kit Includes:

WT623	Tip Wrench, Dual Open End, 1/4" & 3/4"
WT619	Tip Wrench for Retaining Sleeve
CS468	Tip Cleaning Shaft for Desoldering Tips
CS468-1	Tip Cleaning Shaft for Small Desoldering Tips
AN122	Anti-Seize Compound
OL111	O-Ring Lube
MS229	Mica Sheet for HT500
AF629	Felt Filter for AF110
AF625	Felt Filter for HT500
AF040	Foam Filter for AF110



ZD905V-HP with CROWN tip



ZD905V with extended desoldering tip

# ZD500HA/ZD500HA-3

**SOLDAPULLT®**

**ATMOSCOPE and LONER**

**Self-Contained Hot Tip Desoldering and Hot Air Rework Station**

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This dual/triple self-contained, high performance and cost-efficient hot air and desoldering station delivers maximum heat transfer with zero crossing circuitry for ESD-safe operation.

## ZD500HA



- Powerful 70W high output PTC element makes heavy multi-layer boards easy to desolder
- Adjustable desoldering hand tool design provides comfortable working angles
- Powerful vacuum pulse (implosion) from stored vacuum in hose, 21" Hg minimum

### Specifications for Model ZD500HA

<b>Power Requirements</b>	120V, 60Hz
<b>Power Rating</b>	95W - 340W
<b>Heater Rating</b>	
HT500	24V, 70W
FA069	120V, 95W
CL1080 (ZD500HA-3)	120V, 95W
<b>Temperature Range</b>	400°F-800°F/205°C-427°C
<b>Temperature Regulation</b>	±6°F/±3°C
<b>Tip-to-Ground Voltage Leakage/Resistance</b>	< 2mV/< 2 ohms
<b>Overall Dimension</b>	6.5"W x 8.5"H x 10.0"D 165 mm x 216 mm x 254 mm
<b>Weight</b>	
Power Supply	PS501 6 lbs/2.7k g
Desoldering Hand Tool	HT500-2 11 oz/312 g
Hot Air Tool	FA069 6 oz/170 g
Soldering Tool (ZD500HA-3)	CL1080 6 oz/170 g

**ZD500HA-3** includes CL1080 soldering tool (page 17)



ZD500HA-3 with a hot air Quadra Flow tip to preheat a multi-layer circuit board using a CROWN tip to remove SMD

### Contents

<b>PS501</b>	Power Supply
<b>HT500-2</b>	Hot Tip Desoldering Hand Tool (Includes ZD13 desoldering tip)
<b>FA069</b>	SMT Hot Air Hand Tool (Includes LT428 hot air tip)
<b>CL1080 (ZD500HA-3)</b>	Soldering Tool (Includes LT375 tip)
<b>PD529</b>	Tool Holder for Hot Air
<b>PA233</b>	Dovetail Extension (For ZD500HA-3)
<b>PD528</b>	Tool Pod for Soldering Tool (For ZD500HA-3)

#### Accessory Kit Includes:

WT623	Tip Wrench, Dual Open End, 1/4" & 3/4"
WT620	Tip Wrench, 1/4" Socket
WT618	Tip Wrench, Dual Open End 1/4" & 1/2"
WT619	Tip Wrench for Retaining Sleeve
WP556	WIGAPRY Low Static Computer Aid
CS468	Tip Cleaning Shaft for Desoldering Tips
CS468-1	Tip Cleaning Shaft for Small Desoldering Tips
AN122	Anti-Seize Compound
OL111	O-Ring Lube
MS229	Mica Sheet for HT500-2
AF629	Felt Filter for AF110
AF625	Felt Filter for HT500-2
AF040	Foam Filter for AF110

# 1052HP/1052

## LONER ATMOSCOPE SMT Hot Air and High Performance Soldering Station

A versatile hot air and soldering station that runs on shop air or nitrogen. Small and easy to use, the 1052HP works well on everything from small chip caps to 84-pin PLCC devices.



1052 is a SMT hot air and standard soldering station

- Requires clean and dry shop air, 80 psi max
- Precise air flow control
- Uses a wide variety of nozzles
- Direct tip-heater configuration for fast heat-up and recovery during soldering applications
- Wide range of temperatures allows for:
  - Heating of shrink tubes
  - Fast shaping of plastics
  - Fast melting of glue
  - Touch up after flow soldering
  - Clearing solder bridges between etches of circuit board

### Specifications for Model 1052HP

<b>Power Requirements</b>	120V, 60Hz
<b>Power Rating</b>	30W - 440W
<b>Heater Rating</b>	120V, 53W
<b>Temperature Range</b>	400°F-800°F/205°C-427°C
<b>Temperature Regulation</b>	±6°F/±3°C
<b>Tip-to-Ground Voltage Leakage/Resistance</b>	< 2mV/< 2 ohms
<b>Overall Dimension</b>	5.2"W x 8.2"H x 10"D 132 mm x 208 mm x 254 mm
<b>Weight</b>	
<b>Power Supply</b>	4.7 lbs/2.1 kg
<b>Hand Tool</b>	3 oz/85 g



**NON-CONTACT REWORK**  
 using LU572 dual-flow adjustable tip that is bendable to tailor fit a wide variety of component sizes.



**DIRECT CONTACT REWORK TIPS** can be used by changing collars and selecting the best CROWN tip for the job at hand. Use CROWN tips on four-sided components like PLCC's and QFP's.

### Contents

- |               |   |
|---------------|---|
| <b>1052HP</b> | SMT Hot Air and High Performance Station (Includes LU428 Hot Air Tip and HP375) |
| <b>PD533</b>  | Tool Pod for SMT Hot Air Tool   |
| <b>PD528</b>  | Tool Pod for Soldering Tool   |
| <b>SH230</b>  | Sponge Holder with LN230 Liner, RS199 Cleaning Sponge and RS243 Pad             |

#### Accessory Kit Includes:

- |       |   |
|-------|---|
| RB641 | Shim Blade for ST706                    |
| WS630 | SMD Pull Wire for ST706                 |
| ST706 | SMD Tool Helper                         |
| WT620 | Tip Wrench, 1/4" Socket                 |
| WT624 | Tip Wrench, Dual Open End, 1/4" & 5/16" |
| WP556 | WIGAPRY Computer Aid                    |

# Crib Notes for Multi-Tasking Stations

## 1. Specifications

<b>Mil-Specs</b>	DOD-STD-2000-1B, WS-6536E, MIL-STD-2000
<b>Low Static ESD-Safe</b>	DOD-STD-1686, DOD-HDBK-263
<b>Control Circuit</b>	Closed Loop Zero Crossing

## 2. Easy Maintenance

<b>Soldering Tip</b>	Always use genuine EDSYN soldering tips.  To prevent tip from seizing, remove tip from heater and wipe or brush off any oxidation build up.  Keep tips tinned to make them last longer and perform better.  Keep temperature as low as possible.
<b>Cleaning Sponge</b>	Replace RS199 cleaning sponge to minimize tip contamination.

## 3. Spare Parts for 1052HP/1052

Part Number	Description
<b>Power Supply</b>	
PD528	Tool pod for soldering tool
PD533	Tool pod for hot air tool
RS199	Cleaning sponge
SC581	Solder collector
SR283	Hose, 1/8" i.d. polyurethane
SR387	Transformer, dual primary
SR405	Bottom base for power supply
SR556	Top cover for power supply
SR560	Valve regulator assembly
SR563	Fuse, 250V, 3.15A
15002W95	Circuit board, 120V
15242W53H9	Circuit board, 24V
<b>SMT Hot Air Hand Tool</b>	
HS304	Hose, 1/16" i.d. low static silicone
HS308	Hose, 3/32" i.d. polyurethane
LU26	Turbo hot air tip
SR057	Handle
SR062	O-ring
SR394	Heater assembly, 120V
SR521	Collar
SR525	Hose, 1/4" i.d. low static silicone
<b>Soldering Hand Tool</b>	
HP375	LONER high performance standard spade tip
HPS72	Retaining sleeve for 1052HP
LT375	LONER standard spade tip
RS372	Retaining sleeve for 1052
SR057	Handle
SR060	Heater assembly, 120V
SR062	O-ring
SR063	Vinyl sleeve
SR064	Collar
SR280	Tool cord
SR298	Soldering tool, complete assembly
SR525	Hose, 1/4" i.d. low static silicone

## 4. Spare Parts for TSX70

Part Number	Description
AFX73	Condenser and filter for TSX70-1
AF629	Felt filter (set of 10)
AF040	Foam filter (set of 10)
FC639	End cap assembly
MS229	Mica sheet
OS730	O-ring set for valve assembly
OS731	O-ring for heater bushing and end cap
RSX72	Retaining sleeve, heater assembly
RS199	Cleaning sponge
SC525	Solder cone
SH232	Sponge holder
SR120	Heater element
SR130	Poppet (o-ring included)
SR131	Spring
SR266	End cap for filter
SR335	Valve assembly
SR356	Hose and wiring assembly
SR387	Transformer
SR106	Fuse, 250V, 3A
SR304	Flux condenser and cooling fin
SR341	Heater assembly, 24V
SR403	Circuit board for cooling fan
SR404	Top cover
SR405	Bottom base
SR408	Solenoid and vacuum ejector assembly
SR414	Fan assembly
TSX70-1	Hand tool
TSX70-2	Power supply
TSX713	Desoldering tip
15242W45	Circuit board, 24V, 45W (left side)
15242W70H10	Circuit board, 24V, 70W (right side)

## 5. Spare Parts for ZD906, ZD500HA, ZD905

Part Number	Description
FA069	SMT hot air tool
HT500	Hot tip desoldering tool
HT500-2	Hot tip desoldering tool for ZD500HA
LST11	Soldering tool for ZD905 and ZD906
PM100	Vacuum generator
PM200	Pressure regulator
SR106	Fuse, 250V, 3A
SR387	Transformer
15242W53	Circuit board for soldering, 24V
15242W70	Circuit board for desoldering, 24V

Spare Parts for the desoldering hand tool for ZD906, ZD500HA, ZD905V are on page 39.

Spare Parts for the SMT hot air hand tool for ZD906 and ZD500HA are on page 28.

## 6. Additional Features

- Modular design for easy service
- UL listed
- 18 month warranty
- Made in USA

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## Crib Notes for Multi-Tasking Stations

### 7. SMT Reflow Vacuum Tips

FOR TSX70



Part No.	hole diameter	length
<b>TSX713</b> Standard nozzle	.05" (1.3 mm)	.43" (10.9 mm)
<b>TSX715</b> Focus nozzle	.09" (2.3 mm)	.55" (14.0 mm)
<b>TSX716</b> Long reach needle nozzle	.02" (0.5 mm)	.80" (20.3 mm)
<b>TSX717</b> Small oval nozzle	.01" (0.3 mm)	.63" (16.0 mm)
<b>TSX718</b> Medium oval nozzle	.02" (0.5 mm)	.80" (20.3 mm)

### 8. General Purpose Soldering Tips



Part Number	width	head length
<b>LT392</b> Extra-long needle probe	.01" (0.3 mm)	1.13" (28.8 mm)
<b>LT382</b> Long cone	.02" (0.5 mm)	.62" (15.7 mm)
<b>LT603</b> Mid-length needle probe	.02" (0.5 mm)	.69" (17.5 mm)
<b>LT374</b> Standard probe	.03" (0.8 mm)	.48" (12.2 mm)
<b>LT446</b> SMD probe	.03" (0.8 mm)	.48" (12.2 mm)
<b>LT439</b> Thin SMD probe	.03" (0.8 mm)	.50" (12.7 mm)
<b>LT444</b> SMD mid-length fine spade	.04" (1.0 mm)	.78" (19.8 mm)
<b>LT375</b> Standard spade	.06" (1.5 mm)	.48" (12.2 mm)
<b>LT431</b> Mid-length spade	.07" (1.8 mm)	.74" (18.9 mm)
<b>LT376</b> Short stubby spade	.12" (3.0 mm)	.48" (12.2 mm)
<b>LT445</b> SMD angle face	.03" (0.8 mm)	.48" (12.2 mm)
<b>LT399</b> Large angle face	.16" (4.0 mm)	.59" (15.0 mm)

### 9. High Performance Soldering Tips

FOR ZD905V-HP, 1052HP ONLY



Part Number	width	head length
<b>HP371</b> Fine spade	.03"(0.8 mm)	.57" (14.5 mm)
<b>HP444</b> Mid-length fine spade	.04"(1.0 mm)	.83"(21.1 mm)
<b>HP375</b> Standard spade	.06"(1.5 mm)	.57" (14.5 mm)
<b>HP376</b> Wide spade	.12"(3.0 mm)	.57" (14.5 mm)
<b>HP441</b> Long wide spade	.20"(5.1 mm)	.55" (14.0 mm)
<b>HP429-1</b> Angled mid-length probe	.02"(0.5 mm)	.76" (19.3 mm)
<b>HP439-1</b> SMD angle thin probe	.03"(0.8 mm)	.51" (13.0 mm)
<b>HP374</b> SMD probe	.05 (1.2 mm)	.57" (14.5 mm)
<b>HP399</b> Large angle face	.21"(5.3 mm)	.39" (9.9 mm)

### 10. CROWN Tips

Can be used for both Contact and Hot Air Soldering.  
**MUST BE USED WITH LUA35H HEAT ACCUMULATOR.**

CROWN Fork	Part No.	width x gap	SMD pack
	<b>CT12</b>	.07" x .10" (1.8mm x 2.5mm)	SOT-23
	<b>CT25</b>	.10" x .21" (2.5mm x 5.3mm)	SOT-89
	<b>CT31</b>	.14" x .07" (3.6mm x 1.8mm)	1206, 1210
	<b>CT504</b>	.20" x .18" (5.1mm x 4.5mm)	SOIC-8
	<b>CT510</b>	.20" x .41" (5.1mm x 10.4mm)	SOIC14, 16
	<b>CT919</b>	.34" x .74" (8.6mm x 18.9mm)	SOJ-28
	<b>side x side</b>		
	<b>CT1010</b>	.40" x .40"(10.2mm x 10.2mm)	PLCC-20
	<b>CT1818</b>	.70" x .70"(17.8mm x 17.8mm)	PLCC-44
	<b>CT2626</b>	1.0" x 1.0"(25.4mm x 25.4mm)	PLCC-68
	<b>width</b>		
	<b>CH12</b>	.47" (11.9mm)	n/a
	<b>CH17</b>	.65" (16.5mm)	n/a
	<b>CH43</b>	1.69" (43mm)	n/a