

Convection Rework HCT-1000 System



The HCT-1000 is a fully Programmable Handheld Convection Tool offering fast and easy removal and placement of SMT components.

The HCT-1000 stands out as a versatile convection rework tool. It can be used on its own or as part of the MRS-1100A Modular Rework System for more complex applications.

The system comes equipped 5 mm diameter nozzle and nozzle adapter. In addition, a wide range of nozzles are available.



Accessories

HCT-FS2	1	Footswitch, Dual, HCT-1000
HCT-HTRASSY		Heater Assembly
AC-TCK-40-36		Thermocouple, Ø 0,08 mm (AWG 40) pack of 2
HCTA-VC50-5 *		Vacuum Cup, 3/16" (Ø 5 mm), pack of 5
HCTA-VC64-5 *		Vacuum Cup, 1/4" (Ø 6.4 mm), pack of 5
HCTA-VC80-5 *		Vacuum Cup, 5/16" (Ø 8 mm), pack of 5
HCTA-VC11-5 *		Vacuum Cup, 7/16" (Ø 11 mm), pack of 5

System Specifications - HCT-1000

Input Line Voltage	100 - 240 VAC, 50/60 Hz
Rated Power	600 W
Surce Temperature	Up to 450 °C (840 °F)
Heating Method	Convection
Airflow	5 - 25 l/min
Noise Level	< 55 dBA at maximum airflow
Surface resistivity	10 ⁷ - 10 ¹¹ Ohm
Vacuum Pump for Pick-Up Components	381 mm Hg (15" Hg)
Display	LCD, 20 X 4 display segments
Operational Modes	Setup, Run, Manual, Active Setup
Storable Solder Profiles	50
Size W x D x H	178 x 229 x 152 mm (7" x 9" x 6")
Weight	5.4 kg (12 lb)
Certification/Marking	TUV, CE

Key Features & Benefits

- Integrated vacuum pickup for easy component removal
- Profile creation for operator repeatability and storage for up to 50 user-defined profiles
- Manual mode for quick setup
- External thermocouple for process setup and verification
- Handpiece controls for heater and vacuum
- Programmable, digitally-controlled airflow for repeatable results
- Multiple modes of operation: manual, 4-zone heating (with the MRS-1100A System)
- The HCT-1000 is connected to the PCT-1000 via a cable when used as part of the MRS System
- May be used with ATH-1100A Adjustable Tool Holder

Part No.	Description
HCT-1000	Programmable Hand-Held Convection Tool
Includes parts listed below	
HCT-PS1000	HCT-1000 Power Supply
HCT-HV1	Handpiece with integral vacuum, cord & connector
HCTA-VC-KIT	Vacuum Cup kit, one of each *(see Accessories)
HCTA-TH1	Handpiece Tool Holder
HNA-1	Nozzle Adapter
HCTA-NW1	Nozzle Wrench
AC-TCK-36-36	Thermocouple, Ø 0,13 mm (36 AWG), pack of 2
HCTA-CC	Communication cable, length 1.22 m (4 ft)
HN-J0005	Nozzle, ø 5 mm



HN Series Nozzles

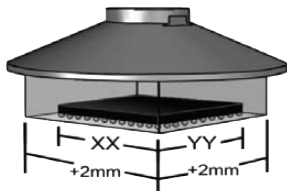
A series of 14 nozzles are available for use with the MRS-1000/HCT-1000. The nozzles fit applications reworking components of all sizes from (including, but not limited to) BGAs, QFPs, LGAs, PLCC, and SOIC. A custom nozzle program is also available.

Nozzle Measurement and Selection

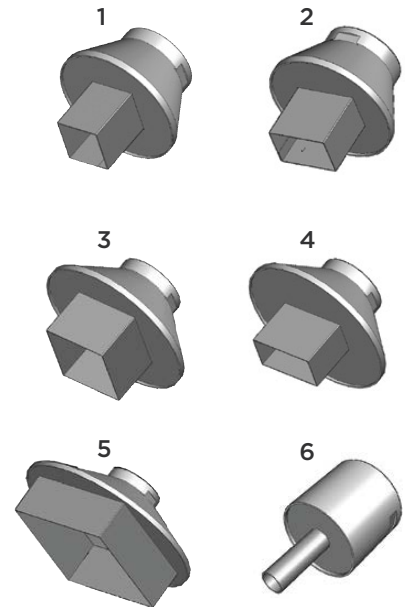
The nozzle part number (the digits after the “B”) represents the size of the component. Two millimeters have been added to each side of the internal nozzle dimension to allow for component access.



HN-BXXYY



Part Number	Component Size	Components
HN-B0707	1 7 X 7 mm	CSP, LGA44
HN-B1010	1 10 X 10 mm	CSP, LGA178, LCC28
HN-B1414	1 14 X 14 mm	CSP, QFP, TQFP100
HN-B1408	2 14 X 8 mm,	CSP, SOIC24M
HN-B1515	3 15 X 15 mm	BGA
HN-B1818	3 18 X 18 mm	PLC44, CSP, TQFP100, BGA
HN-B2525	3 25 x 25 mm	BGA, PLCC68
HN-B1809	4 18.2 X 8.5 mm	SOLJ28, SOIC28M, TSOP32
HN-B2519	4 24.5 X 18.5 mm	QFP100, QFP80
HN-B2727	5 27 X 27 mm	BGA
HN-B3232	5 32 X 32 mm	BGA
HN-B3535	5 35 X 35 mm	BGA
HN-B4040	5 40 X 40 mm	BGA
HN-J0005	6 Small to large size	DISCRETE



Nozzle Accessories

HNA-1 Nozzle Carrier	7
HCT-NC Nozzle Adapter	8
HCTA-NW1 Nozzle Wrench	9

