

HCT-1000 Programmable

[Handheld Convection Tool]

The HCT-1000 is a fully Programmable Hand Held 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 with a nozzle Ø 5 mm and nozzle adapter. In addition, a wide range of nozzles are available.



System Specification - HCT-1000

Input 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
NoiseLevel	< 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)
Certificaton/Marking	TUV, CE

Part No.	Description
HCT-1000	Programmable Hand Held Convection Tool
Includes parts listed below	
HCT-PS1000	HCT-1000 Power Supply
HCT-HV1	Hand-piece with integral vacuum, cord & connector
HCTA-VC-KIT	Vacuum Cup kit, one of each *(see Accessories)
HCTA-TH1	Hand-piece 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	Communications Cable Length, 1.22 m (4 ft)
HN-J0005	Nozzle, Ø 5 mm

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	

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
- Hand-piece 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

HCT-1000 Nozzles & Accessories

[Handheld Convection Tool]

HN Series Nozzles

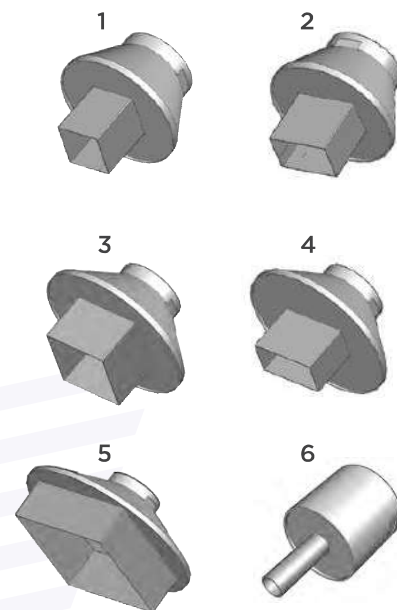
A series of 14 Nozzles are available for use with the MRS-1000/HCT-1000. The nozzles fit applications reworking components of all sizes from (including, but not limited to) BGAs, QFPs, LGAs, PLCC and SOIC. A custom nozzle program is also available.

Nozzle Measurement and Selection

The nozzle part number (the digits after the “B”) represents the size of the component. 2 mm have been added to each side of the internal nozzle dimension to allow for component access.



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

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

