NH-2000A
Pulsed Heat Reflow Soldering System

The NH Series Hot Bar Reflow Soldering Systems feature pulsed heat technology, a pneumatic bonding head and customized 2D and 3D thermodes.

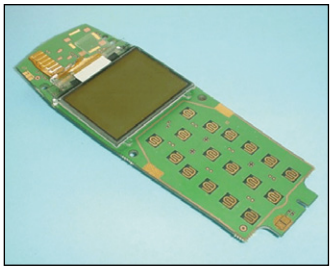
Designed to the highest ergonomic standards, product handling features include either a linear slide or rotary table for optimum production throughput.

Systems can be customized with optional plug & play modules including tape interposers and vision systems mounted on a robust frame.

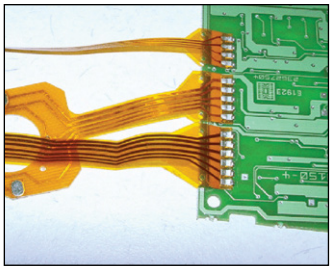
KEY FEATURES

- Compact, flexible standard systems
- User-friendly system configuration with optional plug & play modules
- UF-4000A Pulsed Heat Power Supply
- X-Y thermode planarity adjustment
- Electronic system control
- Digital bond force readout
- Active integrated cooling
- CE approved

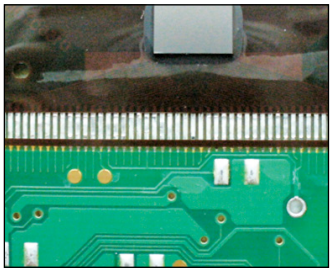
TYPICAL APPLICATIONS



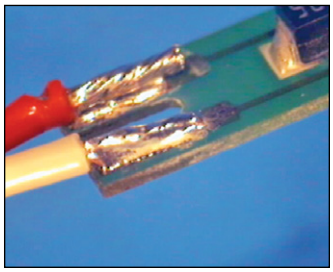
Flex soldering



Multiple flex bonding



Flex bonding



Wire soldering

TECHNICAL SPECIFICATIONS

Power requirements	100-240 VAC / single phase / 50/60 Hz (16 Amps max)
Air supply	6 – 8 bar [87 – 116 psi], clean, dry and filtered air
Fixture assembly baseplate dimensions	5.9 in x 5.9 in (150 mm x 150 mm)
Fixture weight	1.0 kg max (per product fixture)
Thermode size (length x width)	[2D / 3D configuration] [2D: up to 50.0 x 3.0 mm] [3D: up to 75.0 x 4.0 mm]
Starting operation	Two hand control
Operating temperature	15 – 40° C
Operating humidity	Max 93% @ 40° C
Certification	CE approved

BONDING HEAD & UF-4000A* TECHNICAL SPECIFICATIONS

Force range		8 – 80 N @ 6 bar / 60 – 750 N @ 6 bar	
Bond Head stroke (max)		1.77 in (45 mm)	
Bond level height		1.57 in (40 mm)	
Free Z space for components		0.78 in (20 mm)	
Temperature range **Idle** **Baseheat** **Preheat**	 25 to 300° C 25 to 300° C 60 to 500° C	 Heat Heat extended range Postheat	 60 to 600° C 60 to 999° C 25 to 999° C
Time period (in 0.1 sec increments) **Base Heat** **Rise to Preheat Time** **Preheat**	 0 to 99.9 seconds 0 to 9.9 seconds 0 to 99.9 seconds or continuous	 Rise to heat time Heat Postheat	 0 to 9.9 seconds 0.1 to 99.9 seconds 0 to 99.9 seconds
Communication ports		RS-232, RS-485	

*For additional specifications, please review the UF-4000A technical datasheet

MODEL SPECIFICATIONS

NH-2111A Base	No movement
NH-2211A Linear Slide (manual 2-position front-rear slide)	Stroke between front and bonding position: 7.87 in (200 mm) fixed
NH-2311A Rotary Table (manual 2-position)	Turntable diameter: 380 mm
NH-2411A Automatic Rotary Table (pneumatic 2-position)	Turntable diameter: 14.96 in (380 mm) Turntable movement time: < 2 seconds

WEIGHT & DIMENSIONS

Dimensions (W x D x H)*	24.21 in x 27.36 in x 25.59 in (615 mm x 695 mm x 650 mm)
Weight*	132.27 lb (60 kg)

*Excluding power supply

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