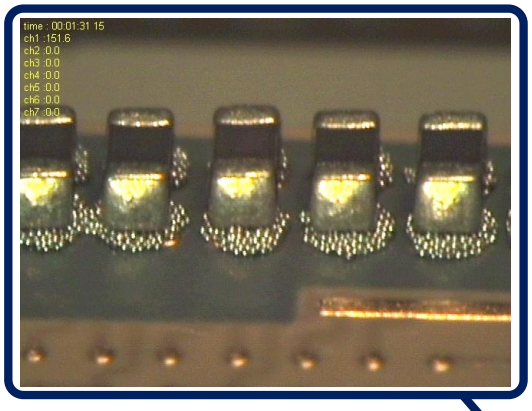
OKUHARA
Ideas into ideal

Desktop Reflow Catalog

Reflow-Soldering System

For experiment and production tool



See it → Solve it

http://www.okuhara-elec.com

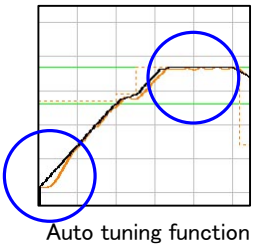
Reflow Soldering System

Static IR Reflow furnace SAR-500A/500N2

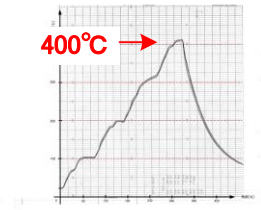
Conveyer furnace performance in static furnace (Full auto tuning function)

- Corresponds to heating temperature 400℃
- Using IR heating method, rapid heat-up and power saving are possible
- Heating process can be observed from side window
- Maximum board size 250×330㎜
- Auto tuning function ensures substantial time saving

Heating	Top-bottom IR heating ・ Furnace air circulation
Control method	Closed loop PID control
Temperature elevation capability	4.5[℃/S] until 400℃ （□75㎜ ceramic board）
Board size ・ Temperature distribution	320×250㎜／±5℃ within □200㎜ inside of □250㎜ board ※When standard work used
Temperature measurement	Measures up to 5ch
Power supply ・ Air supply	AC200V 3φ, 50／60Hz, approx. 10kw ／ 0.4～0.7MPa, 50[ℓ/minute]
Body size	1035[W]×695[D]×690[H]（convex area excluded） ・ approx. 110[kg]



Auto tuning function



Reaction to high heat solder

Furnace observation window

Corresponds to M size board

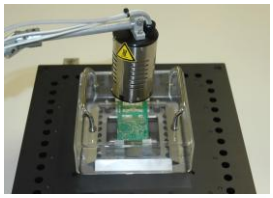
High temperature Reflow Simulator REALAR

Heating status observable from any direction

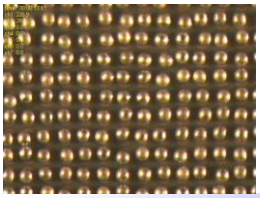
- Rapid heat elevation up to 400℃
- Auto tuning function
- Side/Top simultaneous observation possible
- Corresponds to N2
- 「space-saving」and「low cost」

Heating	Top：Hot air ／ Bottom：IR
Control method	Closed loop PID control
Temperature elevation capability	3.6[℃/S] until 400℃
Board size／Temperature distribution	50×50㎜(MAX) ／ ±5℃ at □50㎜ ※when standard work used
Temperature measurement	Measures up to 5ch
Power supply ・ Air supply	AC200V , 50/60Hz , 100KVA ／ 0.4～0.7MPa , 50[ℓ/minute]
Body size	390×390×220㎜ ／ approx. 6[kg]

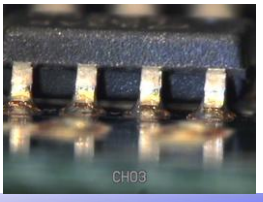
Furnace observation glass



Outer auxiliary heater



Top side observation



Side observation

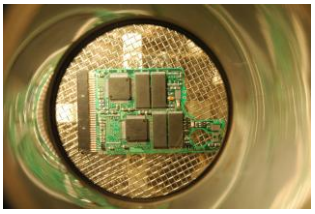
Reflow analyzer VISTA7

Hot air/IR/Combination (hot air & IR)
3 heating patterns available for comparative verification

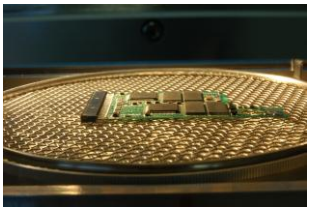
- Rapid heat elevation (4.0[℃/S]) achieved
- Motion observation and recording from 6 locations of top/side/oblique part possible
- Displays 4 cameras images on PC monitor for simultaneous observation
- Equipped with cooling mechanism equivalent to conveyer style
- Auto tuning function ensures substantial time saving

Heating	Top: hot air / Center: IR / Bottom: IR
Control method	Closed loop PID control (3 heating systems are separately controlled)
Temperature elevation capability	4.0[℃/S] until 400℃
Temperature distribution	±5℃ within □80㎜ ※When standard work used
Temperature measurement	Measures up to 5ch
Power supply	AC200V, 50/60Hz, 100KVA
Air supply	0.4～0.7MPa, 50[ℓ/minute]

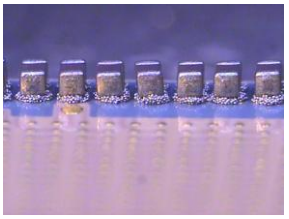
Observes 4 images simultaneously



Upper surface observation



Rotational mechanism work tray



Side observation

Data logger software with analytical functions FAR-520

Real time graphical display

Analytical display

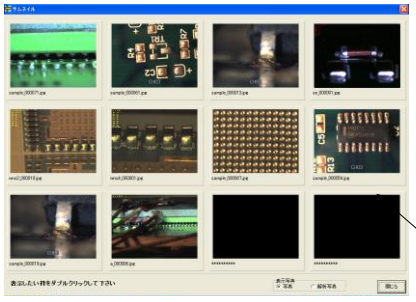
Area, distance calculation, etc.

Video replay screen

Easy profile setup with PC
Analyzes collected data there and then

Temperature following capability can be observed by using real time graphic display to follow standard graph (ideal profile).

Calculates the best temperature or temperature elevation automatically at designated conditions.



Thumbnail display

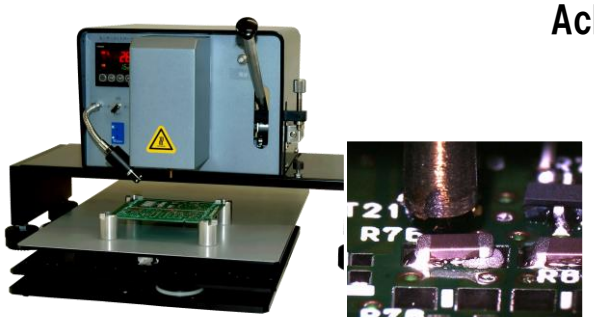
Displays/replays recorded video/static images there and then

By showing recorded images in thumbnail format, it enables comparison examination of impact from each condition.

※Images could be used for the report as they can be saved as static images (640×480).

Reflow Soldering System

Pencil reflow APR-10



Achieves stable soldering work in easy operation

- Enables micro parts soldering easy
- Increases wet level using 2-step heating system
- Stable micro parts heat up with low wind speed hot air heating system
- Easy one-handed operation
- 「Low cost」and「Work ready」device

Heating	Hot air system (80W)
Maximum heating temperature	450℃
Heating area	3.6[℃/S] until 400℃
Heating time	50×50㎜(MAX) ／ ±5℃ within □50㎜ ※When standard work used
Operation method	Measures up to 5ch
Power supply ・ Air supply	AC100V , 50/60Hz ／ Main unit built-in pump
Body size	400×280×270㎜

Point reflow PR-30

Heats up maximum of □30㎜ at once

- Sets up profile freely
- Possible to decide heating position freely by flexible arm function
- Good for QFP or BGA soldering

Heating	IR heating
Control method	Closed loop PID control
Maximum heating temperature	350℃
Heating area	□30㎜ (Glass epoxy board)
Power	AC100V , 50/60Hz
Main unit structure	Heating arm and Control unit

◆Other products

Compact mounter SMT64RH

Cream soldering printer ST310F

Cream soldering printer ST320F

Board warp prevention tool DipCover Thru pin

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