

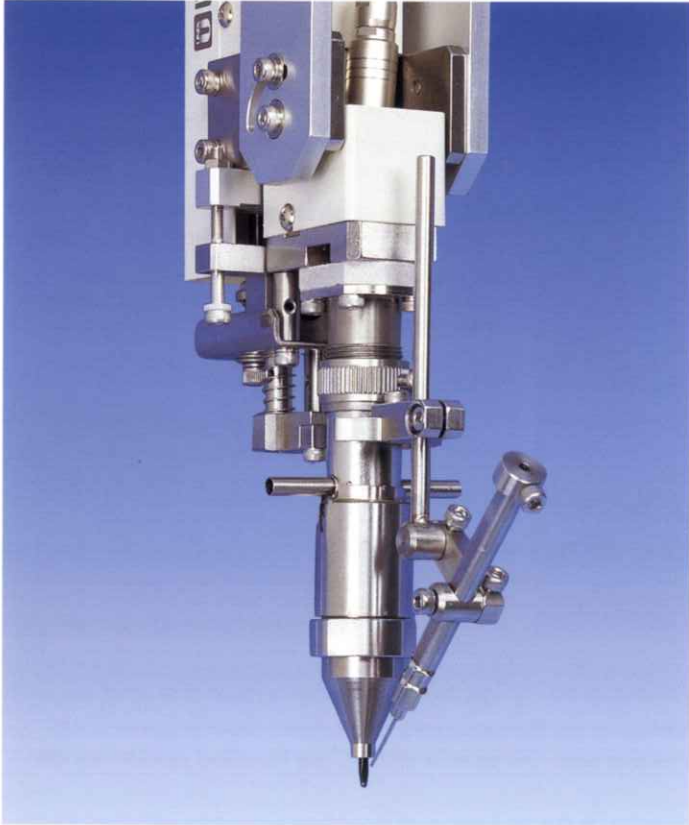
Nitrogen (N₂) gas preheating equipment

DOUBLE HEATER MECHANISM

HN-W100

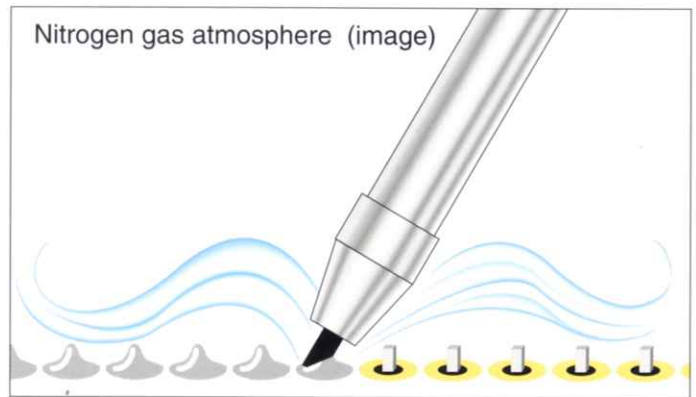
Pb free

Purging hot N₂ to works can considerably reduce work time.



Temperature controller UHC-005

N₂ gas generator UNX-200



FEATURES

Shutoff of oxygen

- Creating nitrogen gas atmosphere at soldering areas can control oxidation of soldered joints or materials.
- As nitrogen atmosphere brings a preventing effect on oxidation and decomposition of flux, improvement in spreading ratio and a reduction in flux contents (3% to 2%) are feasible.
- It is reported that the thermal oxidation preventive effect on the soldering tip prolongs its life.

Preheating

- Work time can be reduced through the preheating effect of hot N₂ gas on soldering areas.
- It is reported that the temperature at the soldering tip is stabilized through the effect of rising ambient temperature surrounding the soldering tip.

※A version without heater is available. (100RH-N₂-CA)

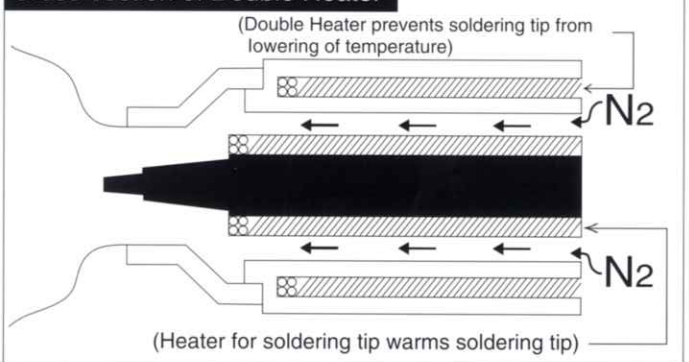
SPECIFICATIONS

Model	HN-W100
Power supply	100V
Wattage	100W

EXAMPLES OF APPLICATION

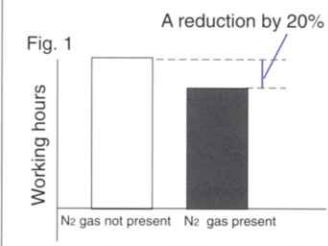
Lead-free solder, high-temperature solder, multi-layer through hole boards, ceramic boards, flexible cables, crimping portion of leads, lead frames, liquid crystal TAB, etc.

Cross-section of Double Heater



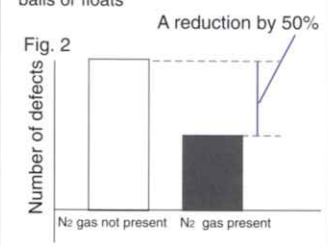
A reduction in working hours

A reduction in working hours by 10 to 20% compared with working in air



A reduction in number of defects

A reduction by 50 to 70% in number of defects such as bridges, balls or floats



Effect in nitrogen (N₂) gas atmosphere

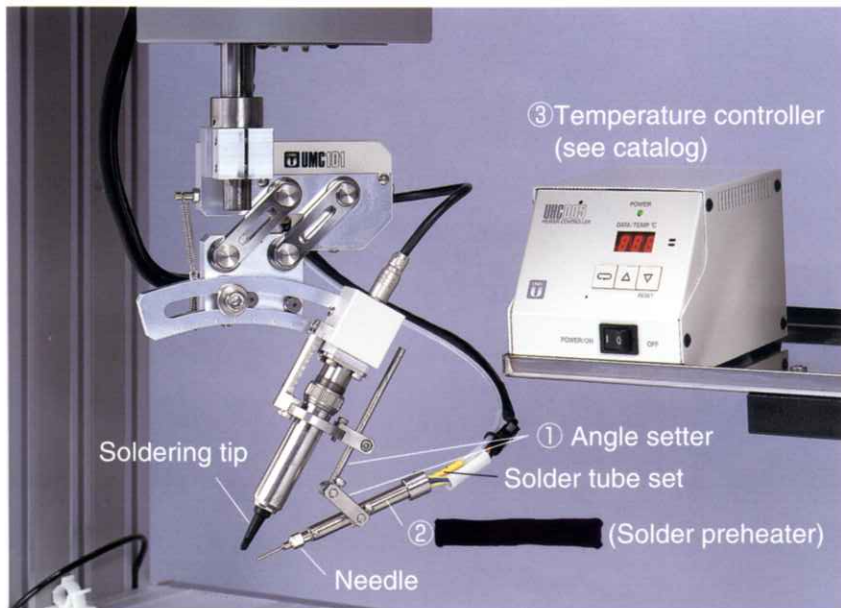
Actual results of performance evidenced by X company:
The case where parts of electrodes are soldered at 350°C



WIRE SOLDER PREHEATING MECHANISM

SHN-10

Preheating of wire solder itself will help reduce spattering of flux and solder balls.



- ① Angle setter that fastens solder preheater,
- ② Solder preheater
- ③ Temperature controller that controls heater temperature (including a cable)

※ The above configuration is available for installation on existing or standard soldering irons.

※ The surface temperature of wire solder at the exit of the needle at time of operation is different from the temperature when the operation is stopped



Preheating for manual operation

FEATURES

- When wire solder is supplied to the soldering tip heated to high temperature, the flux inside may heat up and explode due to abrupt heating. This heat shock is one of the causes of spattering of flux or solder balls. Our product SHN-10 has the effect of reducing this shock.
- It is reported that preheating of solder has an increasing effect of activation on flux and improves good break-off and even spreadability of solder, and besides work time can also be reduced. This has the same effect as preheating of reflow ovens.
- The SHN-10 keeps the temperature at the soldering iron from lowering during soldering operation, and stabilizes the temperature. Through this stabilization of the temperature, it will be possible to set the temperature at the soldering iron to a minimum.
- By keeping the temperature at the soldering iron low, development of flux carbide can be restrained. Also, it has a restraining effect on wear of the soldering tip caused by thermal oxidation.

SPECIFICATIONS

Model	SHN-10
Power supply	24V · 100V
Wattage	35W
Preheating temperature	70~120℃

EXAMPLES OF APPLICATION

Lead-free solder, high-temperature solder, multi-layer through hole boards, ceramic boards, flexible cables, crimping portion of leads, lead frames, liquid crystal TAB, etc.

- The specifications and exterior described in this catalog are subject to change without notice due to improvements.
- Safety note: Be absolutely sure to familiarize yourself with the Operating Instructions to ensure that this product will be used safely.

UNIX JAPAN UNIX

Head office :
21-25, Akasaka 2-chome, Minato-ku, Tokyo 107-0052, Japan.
☎ : +81-3-3588-0551 FAX : +81-3-3588-0554

Web site : <http://www.japanunix.co.jp/>

Contact: