MicroCraft

Nanosteam Curing Machine 2016.06

SC6151 Nanosteam Curing Machine

MicroCrafts nanosteam curing increases your throughput by 10 times. Further combining with our on-demand inkjet printer shall enhance your productivity in competitive quick turn market.

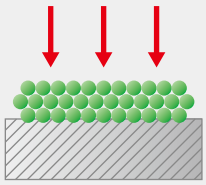
SC6151

Conventional vs Nanosteam

Conventional heat-oven

Curing Time

150C° 60min.

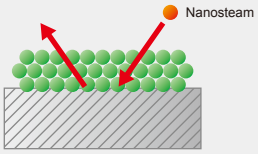


Slow curing by transmission of heat energy from the ink surface.

Deep penetration curing by nanosteam

Curing Time

5min.

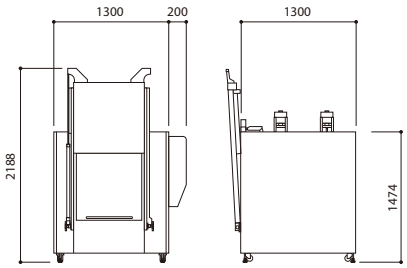


Nanosteam possessing high heat energy penetrate deep through the ink to uniformly cure the ink. Curing shall take place in oxygen free chamber thus is free from oxidation.

Speciications

Max. Board Size	610mm x 510mm
Max. Loadable Amount	40 Pcs
Curing Temperature	180℃~250C°
Power Supply	3 Phase 200V
Supply Requirements	Water and Air (0.4Mpa~4Mpa) *1
Weight	800kg
Dimension (L x W x H)	1300mm x 1300mm x 2188mm

Dimension
Unit: mm



*1 Please contact MicroCraft for details. ◊Machine appearance and specifications are subject to change without notice.

Contact Information

Please contact our sales for any informations or inquries regarding this product.

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SC6151 - Nanosteam Curing Machine -

Curing time of Resist Ink takes only one tenth of conventional method and dramatically cuts power consumption

- Significantly cuts down the energy cost.
  (Approximately half of conventional wicket line)
- Improves quality by low-oxygen condition.
  (Oxidation shall not occur, Nitrogen purge is not needed)
- Can also be used for curing after legend printing (Min. 3min~)
- Can be used under normal pressure, thus can be used regardless of the boiler specification in the facility.

SR Reliability Test (500 hours under constant temperature (85°C) and humidity (85%))

Test Method

1. Acid resistance ——— 10% sulfuric acid, 20°C, 20 min immersion
2. Alkaline resistance ——— 10% NaOH, 20°C, 20 min immersion
3. Solvent resistance ——— Propylene Glycol 1-Monomethyl Ether 2-Acetate, 1 min immersion under boiling
4. Solder temperature resistance ——— Perform reflow soldering under specified temperature profile

Tape Peel test is performed after each test.

Test result

All samples showed no peeling

Test	Result		
	Sample 1	Sample 2	Sample 3
1. Acid resistance	OK	OK	OK
2. Alkaline resistance	OK	OK	OK
3. Solvent resistance	OK	OK	OK
4. Solder temperature resistance	OK	OK	OK

Test	Result		
	Sample 4	Sample 5	Sample 6
1. Acid resistance	OK	OK	OK
2. Alkaline resistance	OK	OK	OK
3. Solvent resistance	OK	OK	OK
4. Solder temperature resistance	OK	OK	OK

Test permed by Qualtec. Co., Ltd.

High quality through low-oxygen condition

Superheated steam is composed of H_2O (water). Thus the drying process is performed under oxygen-free condition, which reduces the oxidation risk tremendously and improves its quality.

Amount of Moisture in the Resist Ink

Measured by Karl Fischer titration

Quality Condition	Precure	Heat oven	SC6151
Pencil Hardness	-	7H	7H
Moisture in Resist	1.04%	0.72%	0.69%

Condition used for curing; Heat oven: 150°C/60min, SC6151: 180°C/5min