



SMT from LPKF (NamA Korea Agent)

(Lab & Small SMD Assembly equipments)

- Printing (3 Model)
- Solder paste Dispenser (Pick & Placer 동시 기능)
- SMD Assembly Station, Rework Station(Op)
- Reflow Oven (Op N2)



Printer



SMD Pick & Placer



Oven

LASERS FOR THE WORLD OF ELECTRONICS

SMT Assembly Kit

경제적인 투자로서 **Lab & Small SMD Assembly** 설비를 갖추실 수 있습니다,
보다 빠른 납기 와 독일의 전통 있는 **LPKF-SMT** 장비를 만나보시기 바랍니다,

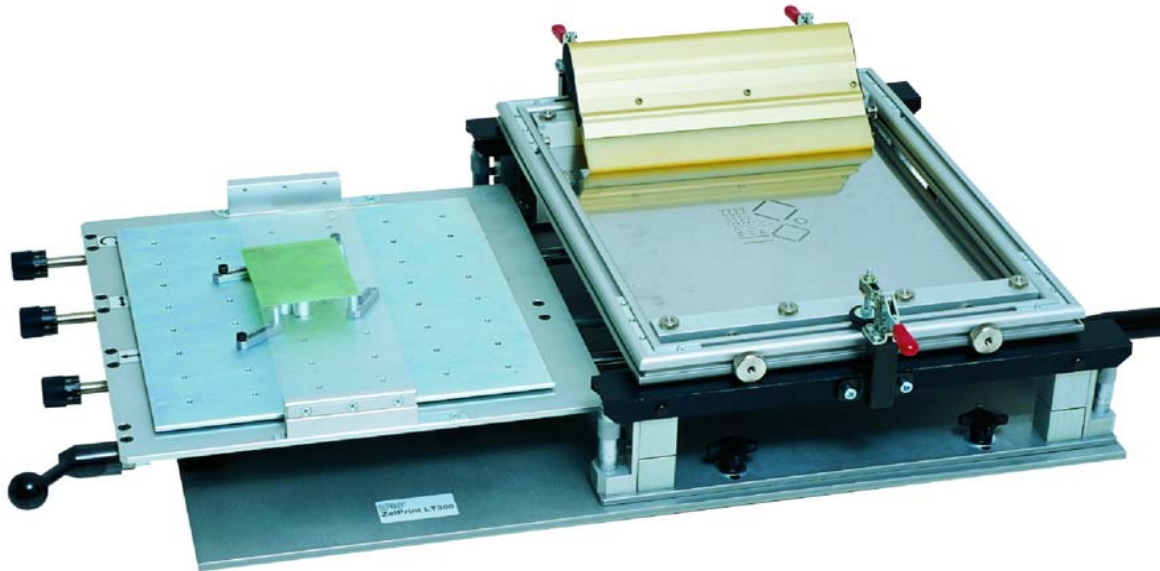
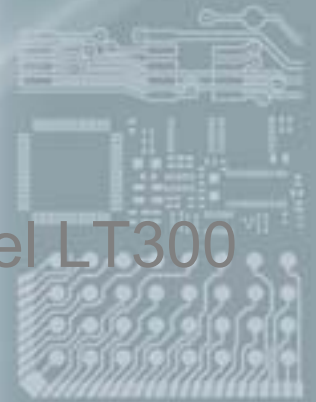
- **Print** Model LT-300. RT250
- **SMD Pick & Place** Model 110, 220, 330 or 340
- **Reflow Oven** model O4 (N2 Option)



LT300 W. test frame, SMD Pick & Place 110 w. turntable, RO4

Printer

Model LT300

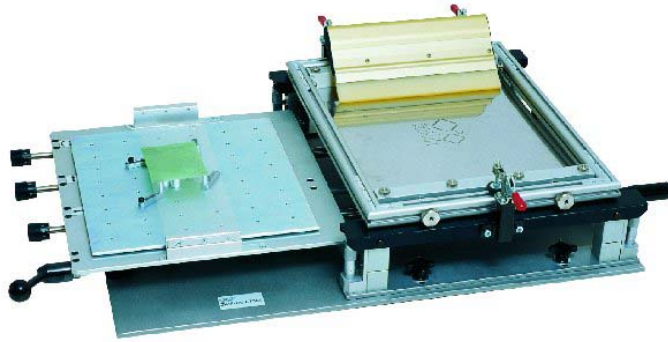


- Printer (transparent test print strip, support pins)
- Rubber or Sten Squeegee 260mm, Frame Size 362x480

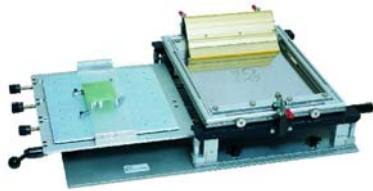
누구나 쉽게 빠른 Set-up. 테스트 Jig, 수평이동방식. Frame Less방식.
Universal PCB Fixture, Micro 케이지, X.Y.D축 섬세조정, Quick Frame교환



LT300 사용 용도



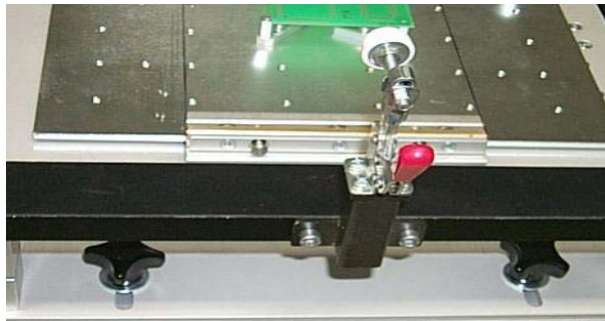
- Applications:
- Stencil printing
- Screen printing
- On-contact, gap printing
- Solder paste and adhesive applying
- Double-sided board printing



Frame 고정방법

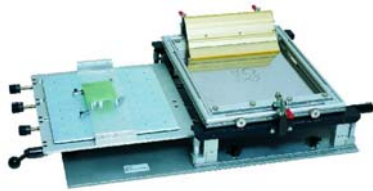
LT300

- Frame Clamping Height 20-33mm



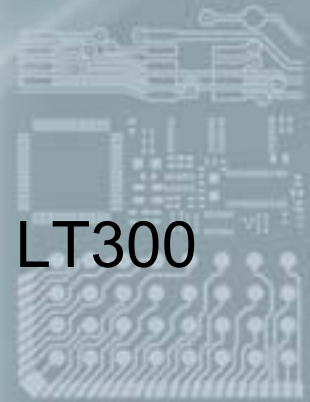
- Size Adjustment length from 420-520mm

프레임 Less방식으로 사용자가 임의에 Tension을 조절하여 사용이 가능 하다

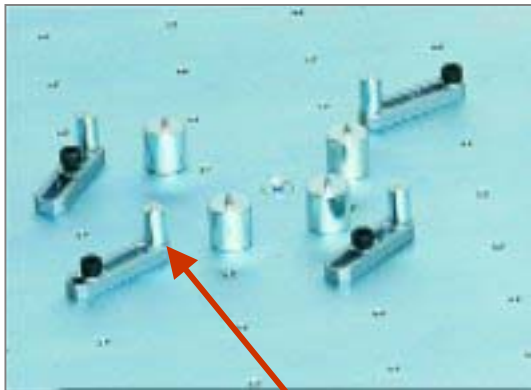


PCB Fixture

LT300

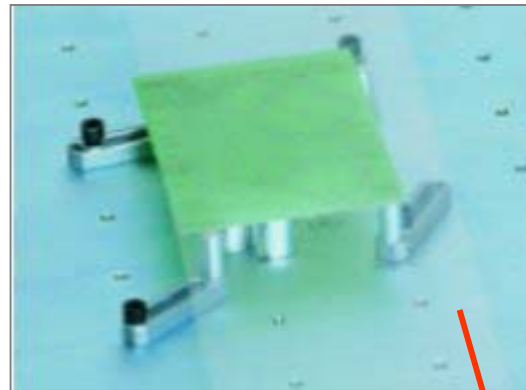


- PCB Clamping (Table 300x300mm)



어떠한 PCB도 쉽게 Setting

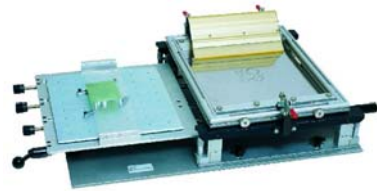
- 4 diameter positioning pins
- 4 magnetic support pins



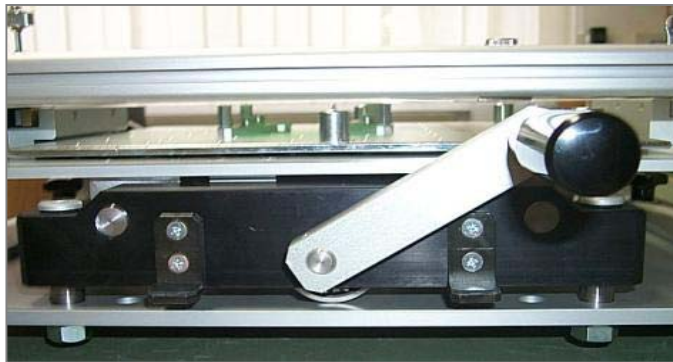
- PCB on LT300 printing
- Table, "Test Print strip (투명 장치 착/탈)"



Hight

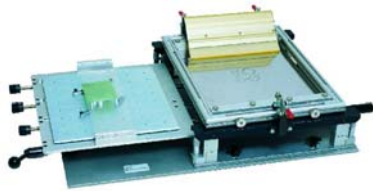


- Precise Height definition
- 마이크로 케이지로 높이 조절 X 4 면

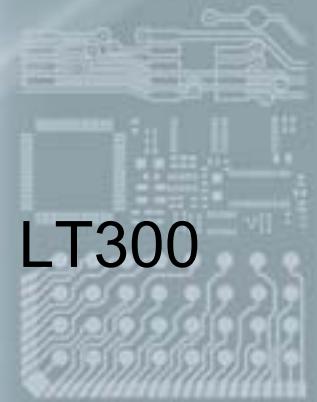


Paralell separation

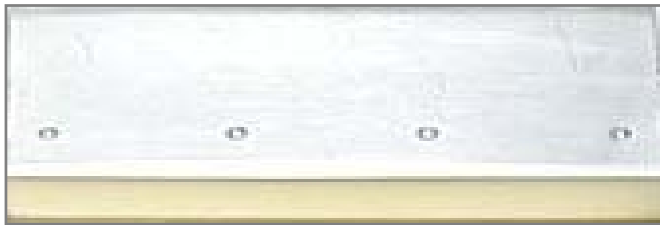
프린팅 시 위로 레버를 올려
안정적 고-품질 프린팅



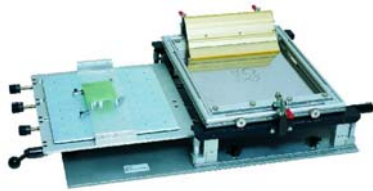
Squeegee LT300



- Available squeegee:

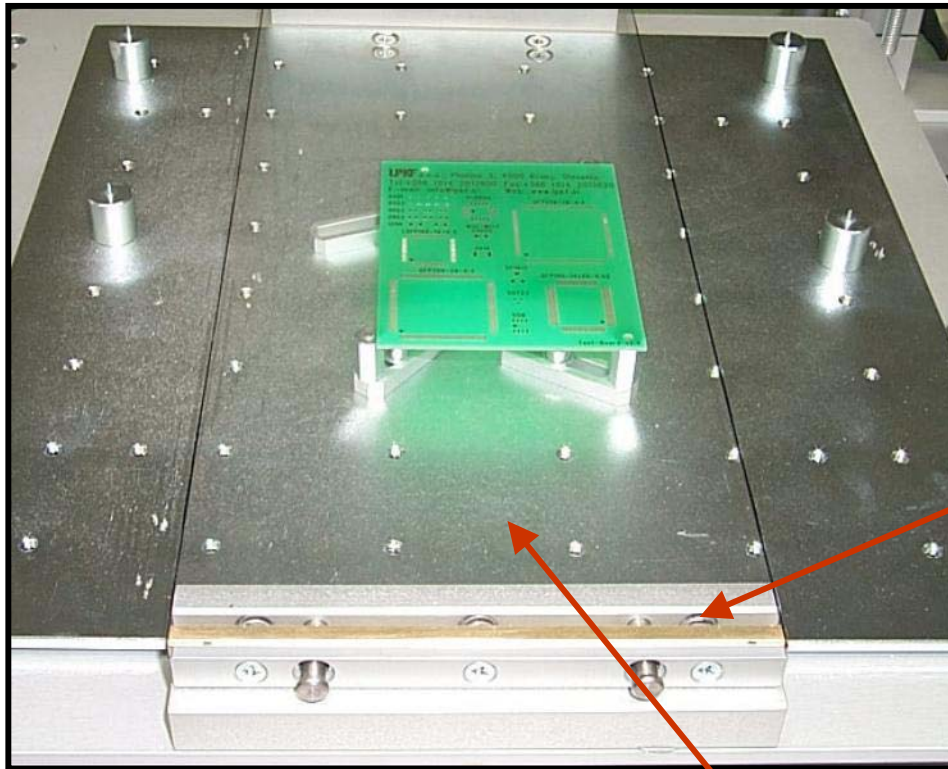
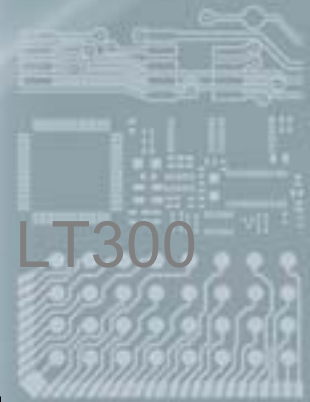


- Rubber squeegee 150mm
- Rubber squeegee 260mm
- Metal squeegee 150mm
- Metal squeegee 250mm



Test Fixture

LT300



Mylar test foil:

- Easy setting
- Improved stretching

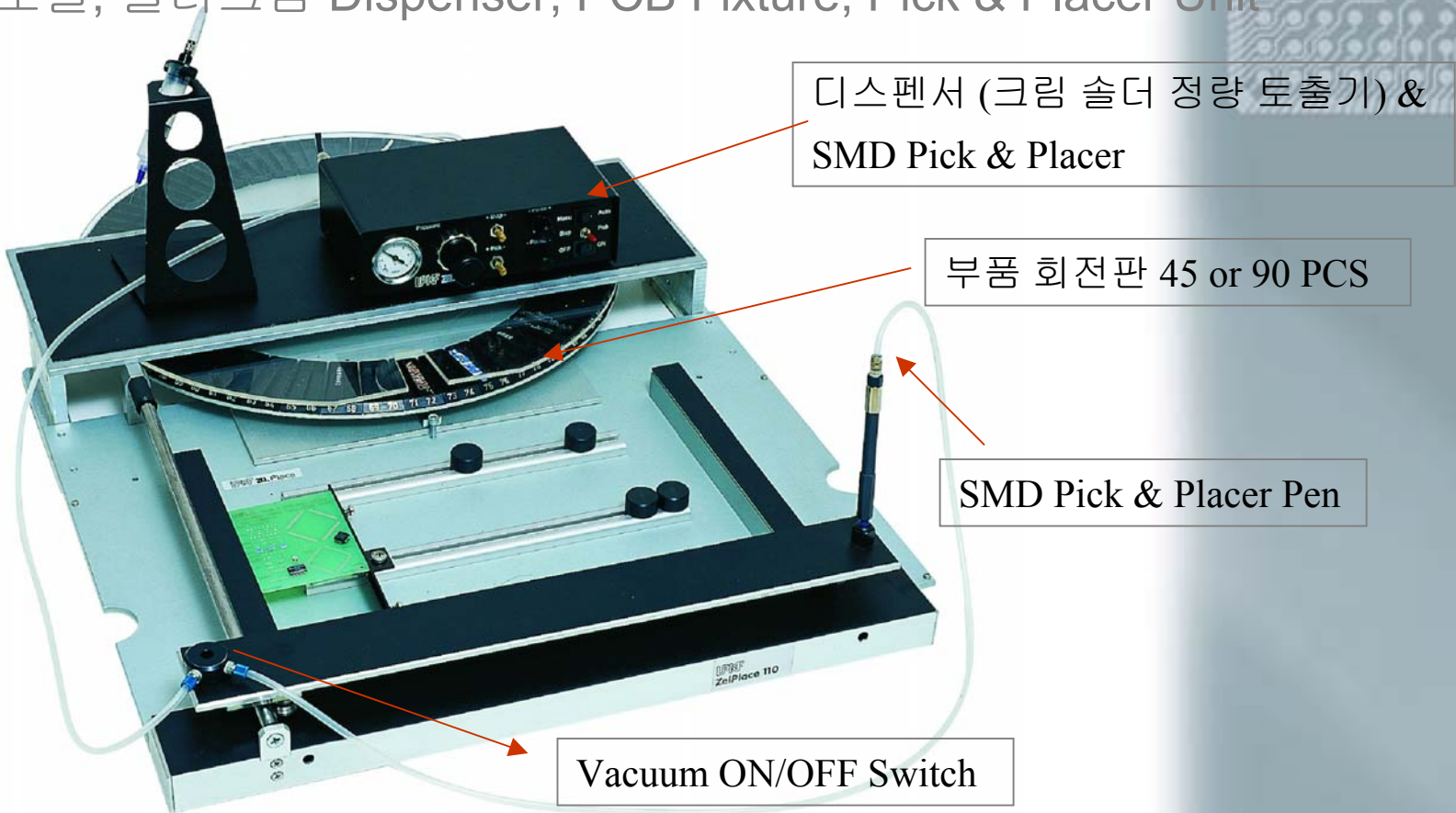
필름 착.탈 Push Switch

LT300: transparent test print strip 투명필름(셋팅 후 제거)

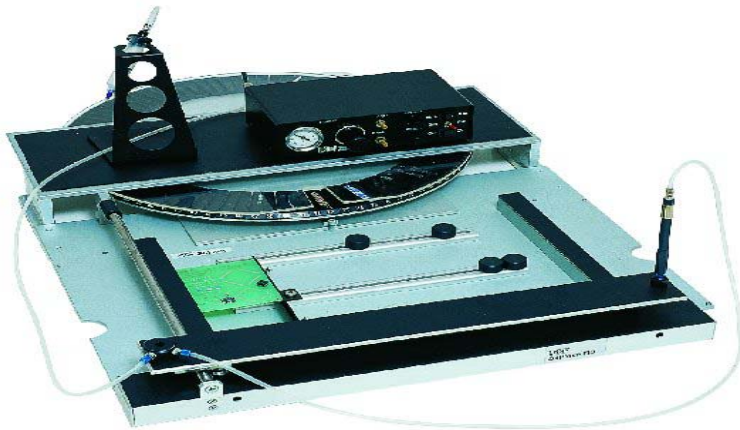
Pick & Placer, (I 컴팩트 형)

Model: 110

케로젤, 솔더크림 Dispenser, PCB Fixture, Pick & Placer Unit



Place 110 w. turntable



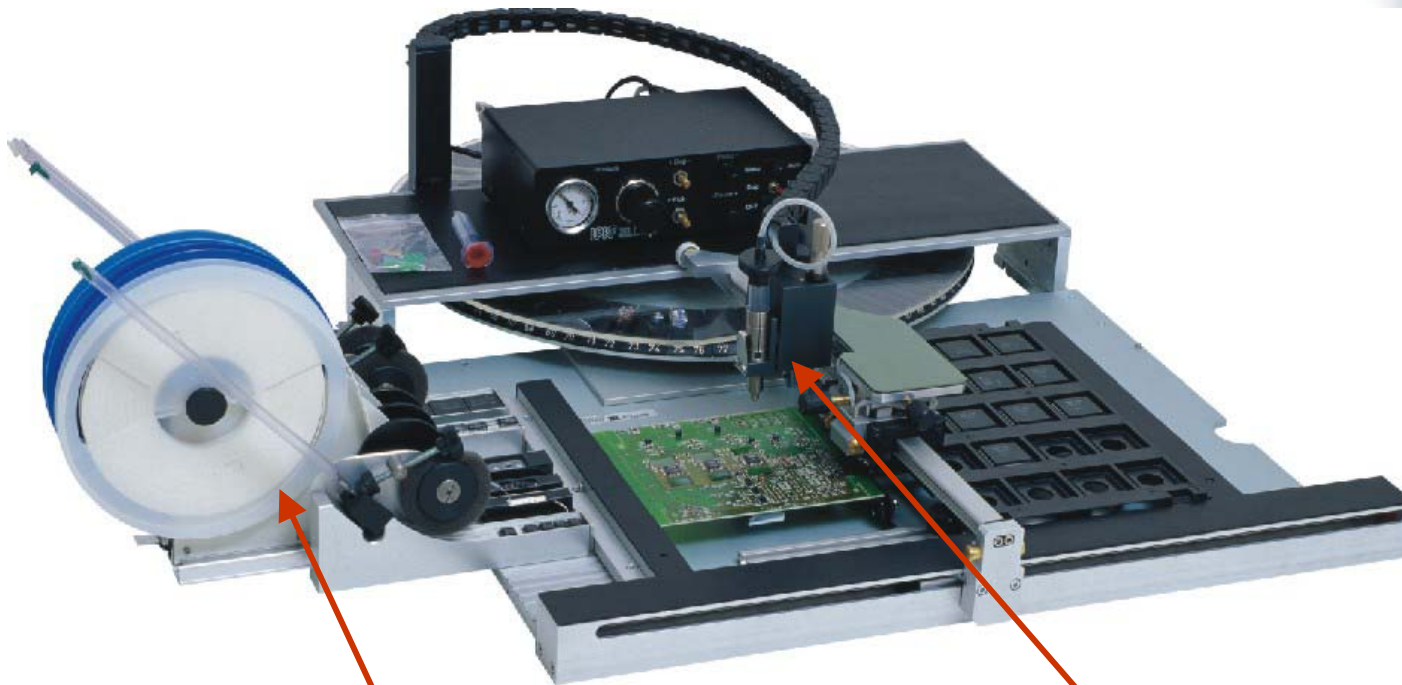
Model 110 특징

- Chip components 0805, 0603
- SOT, MELF
- SOIC, PLCC, QFP: 1,27mm, 1mm
- QFP 0.8mm, 120 Leads
- Y guided hand support
- up to 600 components per hour



Pick & Placer, (II 컴팩트 형)

Model : 220, 330



1. Tape and Stick Feeders.
2. X.Y.D Fine Pick & Placer & Dispenser Unit

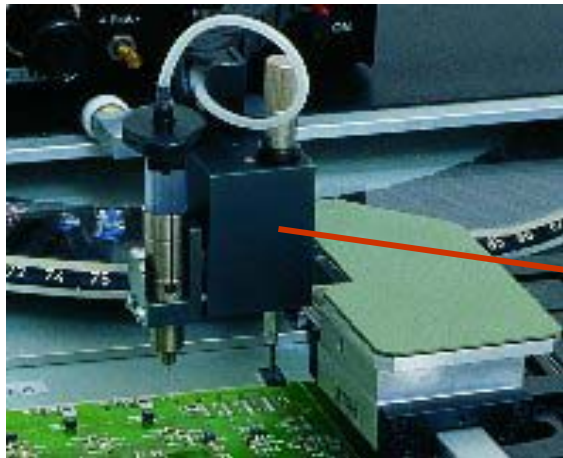
* 110 제품에서 Up-Grade

110 Model 에서 기능 향상



110 Model 에서 기능향상

추가설명 Model 220



- X/Y guided
- Precise Manipulator
- Dispensing
- Pick & Placer W. Dispenser를 쉽고 정교하게 작업 가능 Unit

- Placement of chip components (0402)
- SOT, SOIC, PLCC, QFP 0.65mm (25mil)



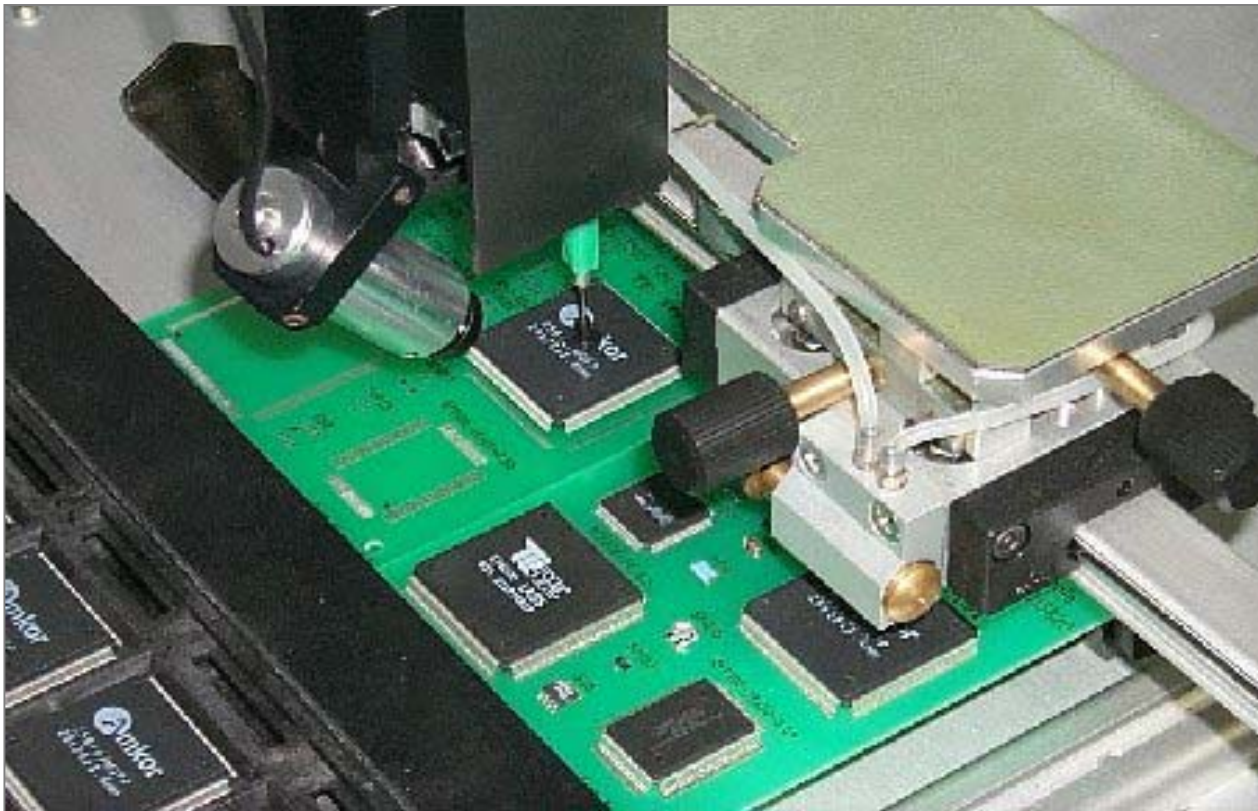
추가설명 Model 330



Camera Module (Op)

PLCC's QFP's 등 의
device 작업 가능

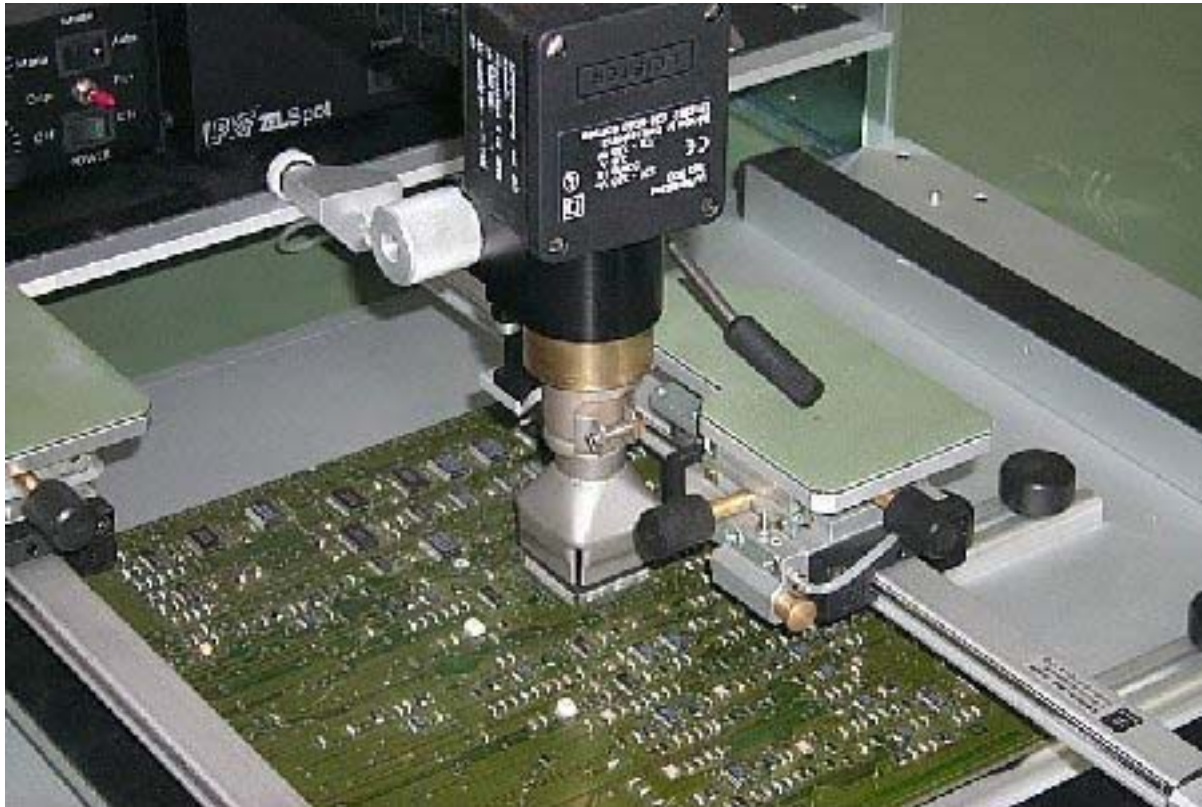
110. 220. Model
에서 기능향상



Place 330/340 -Detail: fine pitch manipulator with micro camera



Rework Module Model 340



110 Model 에서
기능 향상

Place 340 - Detail Rework Module **Hakko Nozzle**호환



Model 340 기능 설명

340정비를 Up grade시 기능으로는 Rework.

Fine Adjustment & Air Flow가 되는 것이 특징입니다

- Blocking of axes
- Fine adjustment
- Height adjustment
- Temperature adjustment
- Air-flow adjustment 110 Model 에서 기능향상

Relflow (Oven) 솔더링

Model : RO4



Finger. 2 자유로운 파티션, 10 Memory, Cooling 속도 1~7 단계
Cooling시간 설정, Double SMD PCB작업 가능 **N2 (질소)**



R04 Oven

Applications:

- SMT Reflow
- Curing adhesives
- Curing conductive pastes Thermal stabilisation of electronic and mechanic components
- Easy Reflow Soldering & 10 memory



R04 Oven

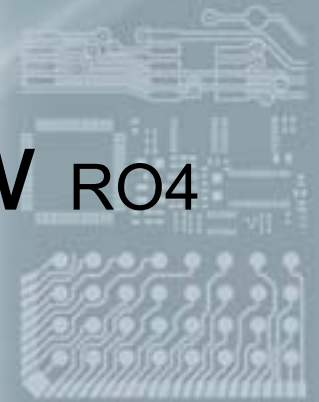
특징

Features: 특징

- Fast warm up (빠른 작업조건)
- Microprocessor controlled
- 2 separate time/ temperature zones (예열 및 Weling)
- Profile store memory (10 메모리 기능)
- Time remaining display (환경 조건 표기)
- Board cooling (1~7단계 및 시간 Edit)



Reflow RO4



- Multilayer PCB production
- Stencil Production
- Solder paste applying
- Components assembly
- Reflow soldering

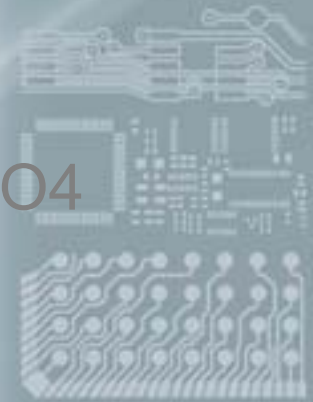


Angle opening for large items as EasySolder

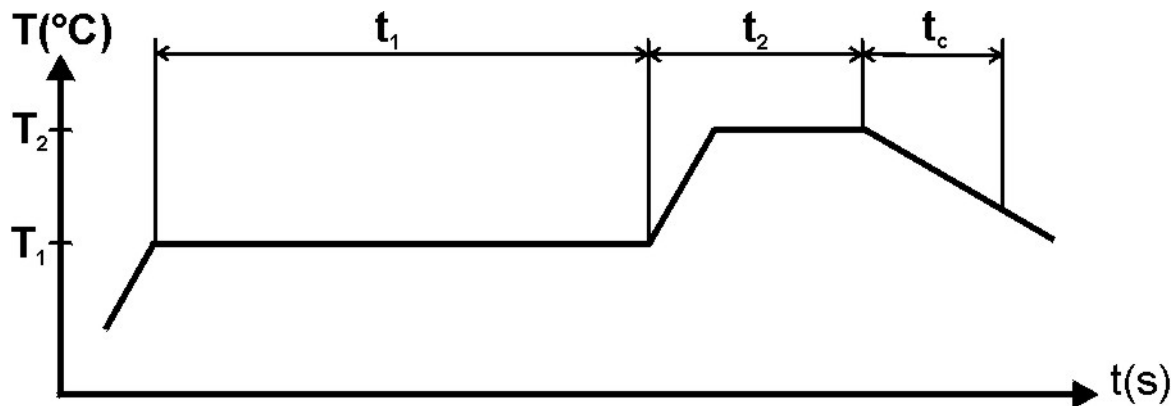
- Auto Cooling & program
- Pre heating & Soldering 온도. 시간 설정
- 초보자 누구도 고-품질 작업 가능



Profile Idea RO4



Temperature profile (프론트 Door에 인쇄 되어 있음)



T_1 PREHEAT TEMPERATURE

t_1 PREHEAT TIME

T_2 REFLOW TEMPERATURE

t_2 REFLOW TIME

t_c PCB COOLING TIME

• 예열 온도

• 예열시간

• Reflow 온도

• Reflow 시간

• PCB 냉각 시간 설정



Print 특징

Model PTC 350



- Controlled printing speed
- Controlled printing pressure
- Flat vacuum table - flex PCB printing
- Gap and on-contact printing
- Quick frame change
- **NEW!** test frame

프린트 속도 조절

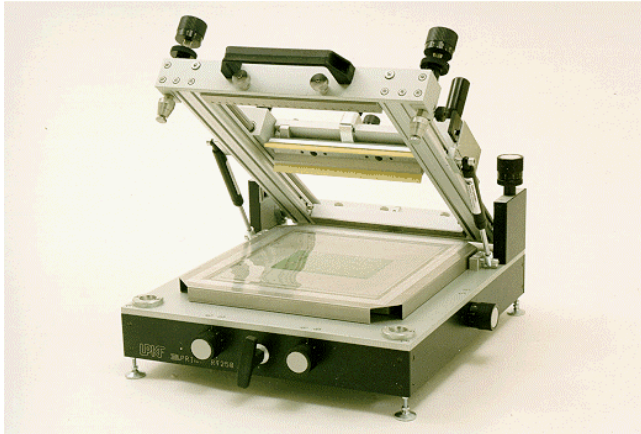
프린팅 압력 조절

진공 PCB 고정

균일한 프린팅

프레임 Less

빠른 Set up Test Jig사용



Print 특징 Model RT-250



- Integrated ZR frame 프레임 Less
- guided squeegee 균일한 품질
- both hand operation Tension 케이지로 균일한 작업
- locking system Universal PCB Fixture
- vacuum table PCB 진공 Fixture (Op)

End 감사합니다

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