

소량 다품종 장비를
찾으신다면....



Fertigungssysteme für die Elektronikindustrie
Vision Printer
Moulder



PbFree Reflow
Profile Unit



Pb Free Reflow
SMD Assembly System



Pb Free Reflow
SMD Assembly System



Printer
Oven

Mounter

88 x Feeder

383N-Lx / 383Vx



- ▶ 0201, CSP, Flip ~ μ BGA Placements
- ▶ Speed : 4,000cph ~ 6,400cph
- ▶ 100 micron Fine-Pitch Image Capture
- ▶ Laser or Fly Vision & Under Camera
- ▶ Built-in Teaching & Real Time Camera System. Visual inspection
- ▶ Solder-Paste Fine Dispenser
- ▶ PCB Overlay & Feeder Overview
- ▶ Cad Data Conversion(Universal Data)
- ▶ Waffle & Bulk Parts Tray
- ▶ Remote Service System

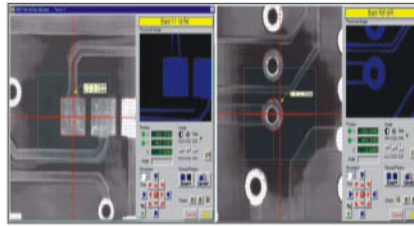
적용분야: Small & Medium, 산학연센터, Lab, R&D, Module 생산업체, DPP

In-Line Conveyor(op)



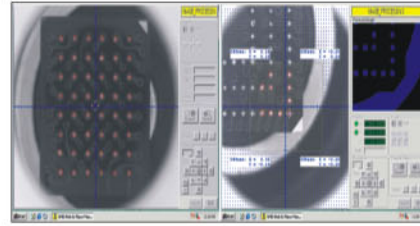
383x, 390N series in line or off-line를 선택할 수 있다.

Smart Fiducial System



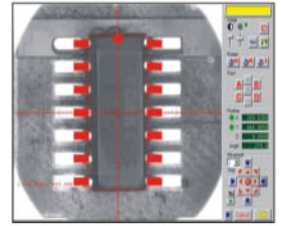
SMD PCB pad 및 plate-through hole을 PCB 인식을 위한 Fiducial Mark로 활용할 수 있다.

Under Vision Alignment(op)



Under Vision Alignment system for 0.3mm fine pitch QFP, BGA, μ BGA & CSP, Flip Chip Device의 정밀한 실장이 가능하다.

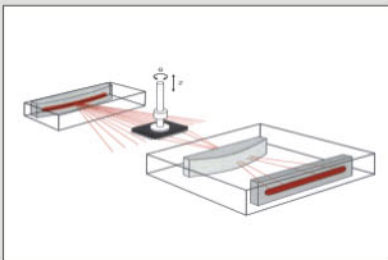
Vision Inspection



실장 부품 상태, 크림 솔더, 솔더링 등의 품질을 화면에 자동으로 image-inspection하는 기본 기능이다.

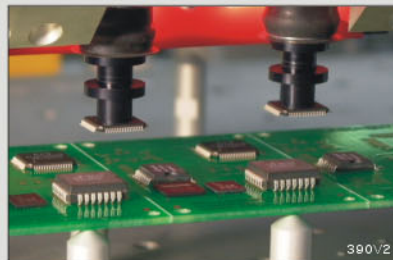
Automatic Full "Pick & Place" AutoTronik Mounter(383x, 390x) is high precision and highly flexible, with built-in camera vision learning SMD Pick & Place Machine which can handle all SMD's chip form component, 0201, CSP, PLCC, μ BGA, QFP IC (0.3 mm Pitch) and BGA. Fast set up and easy programming, most suitable for small & medium volume and multi mode.

Laser-Optic Centering



Laser Syber Optic Head에서 SMD Device의 센터링을 하여 실장시 자동 보정하여 준다.

Vision on the Fly Alignment (0.3mm)



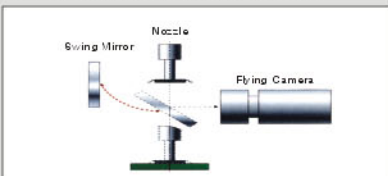
Vision on the Fly for most SMD components from 0201, SOIC, PLCC, QFP, μ BGA Device

0201, CSP~ μ BGA's Placement



부품 실장 방식: Laser Cyber Optic, Under Vision(op)
실장 범위: 0201, PLCC, Sockets, Terminal, μ BGA

Fly Vision 1. 2 Head System



Pick-up과 동시 Vision 인식 기능으로 빠른 실장이 가능하다.

Solder-Paste Dispenser (Op)



Sample, 소량 생산시 초정밀 Dispenser 선택 사용으로 Solder printing을 하지 않고 바로 작업이 가능하다

Flexible Waffle, Bulk Tray Station



Waffle Tray

Bulk Tray

Bulk pack component can be handle under semi-auto Pick & Placer mode. Up to 4 Waffle Tray



Mounter

108 x Feeder

390N-Lx / 390Vx

- ▶ 0201, CSP, Flip ~ μ BGA Placements (0.3mm)
- ▶ Max. 4 Tray Feeders (16 Tray op)
- ▶ Speed : 4000cph ~ 6400cph
- ▶ Board : Max. 620 x 325mm
- ▶ In-Line or off-Line Easy Upgrade available
- ▶ Fly Vision or Laser-Cyber Optic (Auto Centering)
- ▶ Teaching & Real Time Vision System
- ▶ Solder-Paste fine Dispenser unit
- ▶ PCB Overlay & Feeder Overview
- ▶ Universal CAD-Data Conversion Program
- ▶ Built-in Remote Service Unit

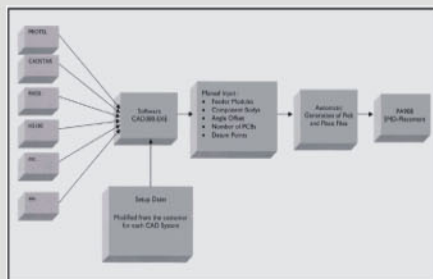
적용분야: Medium, Fine Pitch & Parts Module Product.

Model별 Specification

Function		383N-L20	383N-L30	383V1	383V2	390N-L20	390N-L30	380V1	390V2
1	Max. Speed	4,000 cph		4,000 cph	6,400 cph	4,000 cph		4,000 cph	6,400 cph
2	Number of Head	1 Head		1 Head	2Heads	1 Head		1 Head	2Heads
3	Alignment System	Laser / Bottom Vision(op)		Fly Vision / Bottom Vision(op)		Laser / Vision(op)		Fly Vision / Bottom Vision	
4	Feeder Capacity (ø12mm)	Max. 88 Feeders (Max 44 with Conveyor)				Max. 108 Feeders (Max 64 with Conveyor)			
5	IC Tray Capacity	Max. 2 Waffle Trays				Max. 4 Waffle Trays / Max. 14 Waffle Trays with TH-14 Tray handler(op)			
6	1. Min	0.6 x 0.3mm (0201)	1.0 x 0.5mm (1005)	0.6 x 0.3mm (0201)		0.6 x 0.3mm (0201)	1.0 x 0.5mm (1005)	0.6 x 0.3mm (0201)	
	2. Laser optic	20 x 20mm	30 x 30mm	16 x 14mm		20 x 20mm	30 x 30mm	16 x 14mm (on the Fly)	
	3. Under Vision	38x38mm (øAlign) / 48x48 with AQ48(op)		38 x 38mm		38x38mm / 48x48mm, 62x62mm (op)		38 x 38mm / 50 x 50mm BV50 (op)	
7	Repeat Accuracy	0.1mm (Laser) / 0.05mm (Vision)		0.05mm		0.05mm (Laser) / 0.03mm (Vision)		0.03mm	
8	PCB Size (Placement Area)	450 x 350mm (2pcs of Headers) 350 x 320mm (8pcs of Headers) Conveyor : 50 ~ 350mm (350x450mm)				Max. 620 x 360mm(w/o Tray) / Max. 620 x 330 mm with 1 Tray Conveyor : 1) 50 x 50mm ~ 620 x 325mm with 1 Tray 2) Max. 620 x 180mm with 2 Trays 3) Max. 620 x 155mm with 3 Trays			
9	Programming	Vision Teach-in / Direct Input / CAD Data Access (op)							
10	Dimension (LxWxH) / Weight	1030 x 940 x 1250mm / 400kg				1080 x 1050 x 1350mm / 500kg			
11	Feeder Formats	Automatic Tape Feeder : 8, 12, 16, 24, 32, 44, 56mm / Universal IC Tube Feeder (5, 10, 20 purchase Bank)							
12	Standard Function	▶ PCB Visual Inspection ▶ Remote Service Unit ▶ Waffle & Bulk Tray ▶ LAN, Modem, Tel. Interface ▶ Windows XP ▶ Solder Paste Dispenser (op)							

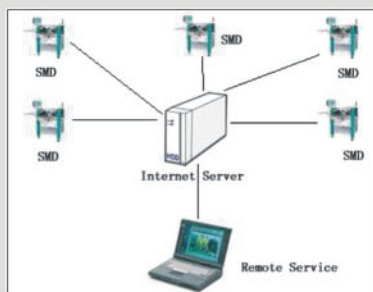
※ 세부적 내용은 Autotroni k-SMT. com 을 참조하시기 바랍니다.

Universal CAD Data Interface



Universal CAD Interface는 서로 다르게 포맷된 CAD Data(ASCII)를 매우 간단히 변환시켜 준다. 기존에 있던 설치 파일도 변환 가능하여 모든 어셈블리 단계를 읽어 들이고, Pick & Place 프로그램을 자동으로 생성한다.

Remote Service Kit

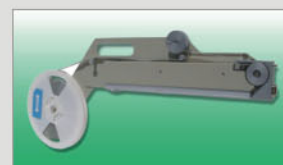


Internet을 통하여 원격으로 Mounter의 Calibration 및 machine의 환경조건의 문제를 Aisa Service Center에서 빠른 사후 관리 가능.

Tape Feeder (전자식)

8mm, 12mm, 16mm, 24mm
32mm, 44mm tape feeders available.

Half step (2mm advance)
feeder also available for
0201/0402 component.



Tube Feeder (Air)

Air-driven unique design,
can drive different size IC
at the same time.

UFTB-1 (5pcs of 8mm tube)
UFTB-2 (10pcs of 8mm tube)
UFTB-3 (20pcs of 8mm tube)



383x / 390x Function



PCB Overlay



Feeder Overview



QFP's, BGA's, UBGA's Automatic Alignment



CAD Conversion Program

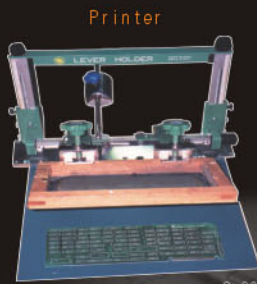
Lab. & Small SMD Ass'y

경제적, 효율적인 작업을 원하신다면 ?

Lab. & Small Multi Assembly 작업에 적합한 제품.

800만원대

Lab. & Small Full Kit 1



S-60

- Universal Fixture Frame
- X,Y,D,Z Fine Adjustment
- Rubber Squeegee (250mm)

Multi Pick & Placer



SK-5000

- SMD Pick & Place Station
- Rubber Pad : 5,7,9,11Φ
- Pencil 3개까지 사용 (Multi-station 사용식)

Oven



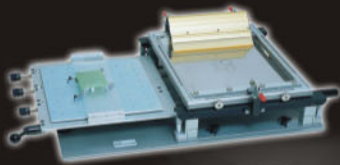
RO4

- Hot Air & IR Convection Oven (N2 op)
- 10 Memory & 8 Cooling Steps
- Double Side Reflow / Work 350x290mm

2천만원대

Lab. & Small Full Kit 2

Printer



LT-300

- Stretching Frame
- Work Area : 300 x 400 mm
- PCB Fixture, Quick-Setup Unit

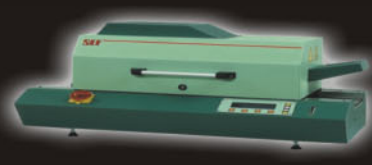
P&P : Solder Paste Dispenser



LM-901

- Carousel 45/90pcs Part Bins
- X,Y,Z,D 이동, Tape & Tube Feeders
- With Solder Paste & Bond Dispenser

Air Convection Reflow



548.04G

- Air Convection Oven (Pb Free)
- Built-in Temperature Profile Measuring
- Profile 측정, 분석, 메모리 & Printing Port



Dispensing System



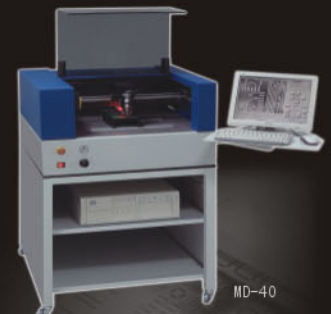
Air Dispenser

- Micro-Processor Dispenser
- Automatic Time 보정 Digital Process
- 5, 10, 30cc Barrel Stand, Easy Operation
- Air Pulse Method 초-고밀도 마이크로프로세서



DD-500

- Automatic Dot/Line Master, Gerber Data
- Solder Paste & Bond Automatic Dispenser
- 2차원 선, 부채꼴, 원형, 나선형 까지 가능
- PCB Work Size : 400 x 600mm, PC Control



MD-40

- Automatic Solder Paste with PC
- High Quality Rigid Construction
- Work Area 350x350mm, CAD Data 변환
- Dispensing Rate Max.15,000dots/H

Other Products

NamA. Since 1988

Customer Accommodation Service

High Quality & Reliable Equipment with Quick Delivery

Pick & Place Machine



M-60

- Automatic P&P for Small & Multi Production 1005-BGA
- 16 x Standard 8mm Feeders, CAD Data Conversion
- PCB Work Area 300x500mm / Placement Rate 2800-2000cph



MM-500

- Semi-Automatic LED Guided P&P, CAD Data Conversion
- Automatic Tape Feeder, Solder Paste & Dispensing
- Effective System for Prototype & Small Production

Rework Station



MIR-500

- 500만원대 SMD Rework
- Nozzless Type
- Soldering & Desoldering
- Pre-set, Easy Operation



PLR-2000

- PLCC, QFP, BGA Rework & Fine Placement
- Micro Scope, 3D Vision [CCD Camera]

PCB Prototyping System



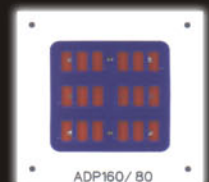
ProtoMat S62

- Automatic Tool Change (10 Positions)
- Fiducial Recognition Camera System (opt)
- Head Lighter and Vacuum Table on Top
- Compact & Rapid PCB Prototyping machine

Applications →



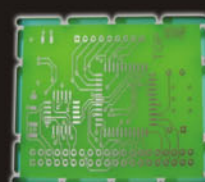
Mixed-Single Board
Single/Double-Sided, Multilayer



Front Panels & Depaneling Holders



Flexible PCB



RF & Microwave Board

Medium Product



Stencil Printer

- Vision Automatic Alignment
- Frame : 600x600mm(Vacuum Fixture)
- Number of Program : 100
- Loading & Unloading Frame System



Mounter Small & Medium

- 0201, Die, CSP, Flip ~ μ BGA
- Fly Vision & Under Vision System
- Inspection, Bulk & Dispenser
- Built-in Remote Service Unit
- 33 x Feeder, In-line(44pcs)



Air Reflow Pb Free

- 4 Zone Wide Full Convection(500mm)
- 2 Channel Temperature Profile Built-in
- In-Line Finger System(PCB Capture Tray)
- Reflow Management S/W(PC Interface)



PCB Cleaning 자동 세척도검사

- Full Automatic System (DI Water)
- (Cleaning, Rinse, Coating & Dry)
- Auto Conductive Inspection
- Anti-static & Anti-Oxidation, Coating
- Report Printing for Cleaning Result
- 美, 국방부 세척 증명
- "Mil-STD 2000 by a Factor 3~4"



SMD Parts Counter

- Axial, Radial, SMD 통합 계수
- Label Print(년,월,일 상로 출력)
- 3 Year Warranty

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