



PRODUCT FOR LED ASSEMBLY



Autotronik-SMT GmbH



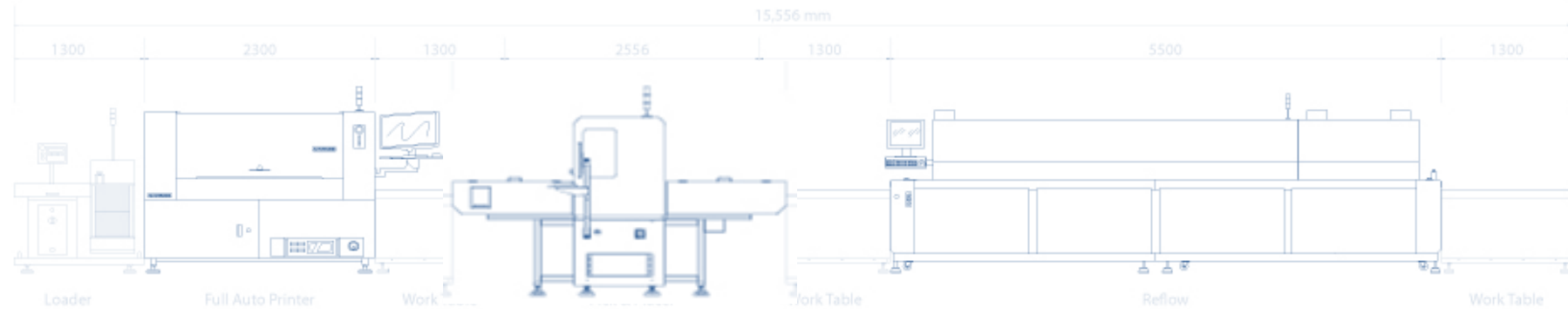
LED Assembly 위한 장비 구성도

	Printer	LED Pick & Place	Reflow	V-Cutting Model	
1 1.2m Tube LED "양산" 장비	Full Vision Auto Printer	1.2m LED Pick & Place	LED Reflow 10 Zone	LED Multi V-Cutting	Tube LED 전용
2 1.2m Tube LED/범용 준.양산 장비	Full Vision Auto Printer	1.2m LED/범용 실장	LED Reflow 8 Zone	LED Multi V-Cutting	Tube /범용
3 1.2m Tube LED 전용 준.양산 장비	Semi Auto (Vision/수동)	1.2m LED Pick & Place	LED Reflow 8 Zone	LED V-Cutting 700	Multi 생산 적합
4 LED / 범용 SMT 생산 장비	Semi Auto (Vision/수동)	범용work 440 x 350mm	5. 8 Zone Chamber	LED V-Cutting 500	Multi 소형 Size
5 LED / 범용 Lab Small 생산장비	수동 프린터	자동 실장 (8.12.16mm)	Batch Reflow Oven	LED V-Cutting	연구/개발/다품종
6 Tube Light PCB V-Cutting Machine	→ Multi V-Cutting type / → 3 Cutting Blade type / → 1 Cutting Blade Type for 1.2 / 2.4m and Un limited Cutting				



1. LED 양산 생산을 위한 장비 구성도. (Full Automatic Printer)

작용 업종 : Tube Light (형광등 1.2m / 2.4m) 가로등 조명 .인테리어 산업용 조명



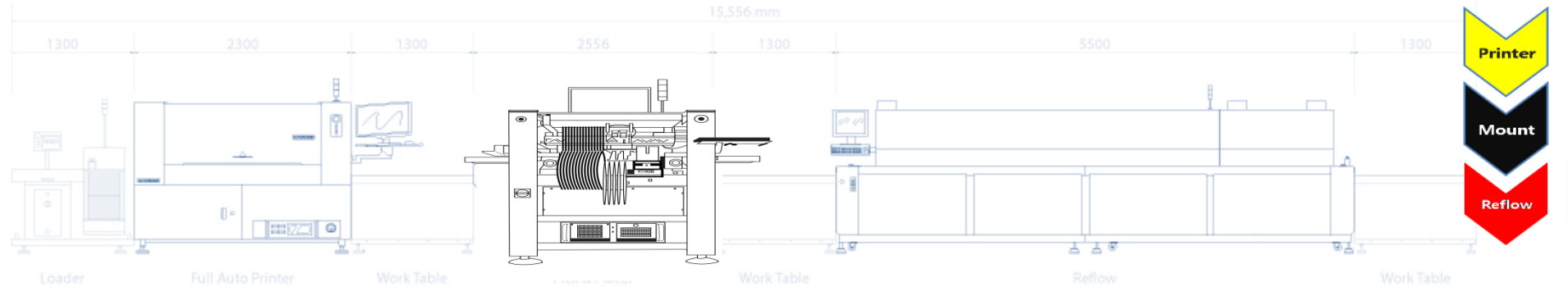
Loader 1.2m 1200 x 800mm	Stencil Solder Printer AP 1500 2300x1704x1878mm	Work Table Station 1200x800mm	LED LD812V Pick & Place 1.2 /1.5m 2630x1130x1490mm	Work Table Station 1200x800mm	Reflow 8 to 10 Hot Air Convection Reflow 2 x Flux Filter System. N2(op) Quick Cool Down 6300 x 1360 x 1550mm	Work Table Station 1200x800mm
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Model	Printer AP1200	LED Pick & Place LD812V4/V6	Reflow CR-10100NP-F
SPEC	- Double side board printing - Max : 1200 x 300 mm - Thickness : 0.4 ~ 5mm - Automatic Vision Alignment - Accuracy : +/-0.01mm - Operating Windows 7 base	- Vision on the fly cameras - Head Q'ty : 4 EA / 6EA - Work:1200x300 (1200x250mm) Conveyor - Speed: 15 000 cph / 18,000 cph - Feeder Bank : Max.16 - Accuracy: +/-0.05mm	- Heating Zone 10 Zone. ● Max 350°C - Max.550 width. N2.(op) Center rail 2 x Flux Filter System. - Cooling system function 3 x Channel Temperature Profiler - reflow operation History backup
Dimension	● 2300x1704x1878 mm (1200kg)	● 2630 x 1130 x 1490mm (450kg)	● 6300 x 1360 x 1550mm, (2050kg)
AC Power	■ 220V, 50/60Hz 2.5KW(single)	■ 220V. 50/60Hz 2,2KW (single)	■ 3P x 380V+/N(220V)50/60Hz 75KW
Air (W.D.H)mm	○ 5 br / 75 psi	○ 5.5 bar / 80 psi	○ 7.5 bar / 90 psi



2. LED 혹은 범용 SMD생산 장비 구성도.

적용업종 : Tube Light (형광등, LED조명, 인테리어 1.2m Switch Power, Other SMD Assembly에 적합)



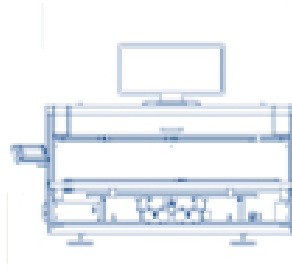
Loader 1.2m	Stencil Solder Printer. AP 1500	Work Table Station	LED (범용 Chip Mount) Pick & Place 1.2 /1.5m	Work Table Station	Reflow 8 to 10 Hot Air Convection Reflow 2 x Flux Filter System. N2(op) Quick Cool Down	Work Table Station
Size	2300x1704x1878mm	1200x800mm	1780x 1370x 1460mm	1200x800mm	5650 x 1350 x 1559mm	1200x800mm

Model	PRINTER AP1200	MOUNTER BA388V4	REFLOW CR-8000NP-F
SPEC	- Double side board printing - Max 1200 x 300mm - Thickness : 0.4 ~ 5mm - Automatic Vision Alignment - Accuracy : +/-0.01mm - Stencil Auto Cleaner - Windows 7 base	0201 (0.6x0.3mm) SOIC, PLCC, BGA, μBGA, CSP, QFP, up to fine-pitch 0.3mm - Fly Vision & Bottom Vision alignment - Head Q'ty : 4 EA Speed : 8,800 cph hour - Work : Max. 1200 x 408 (Conveyor) - Feeder: Max.192 feeder(Conveyor) - Accuracy: +/-0.03mm - Solder Dispenser system (opt)	- Heating Zone 8 Zone. Max 350°C - Max.550 width. N2.(op) 2 x Flux Filter System. - Cooling system function 3 x Channel Temperature Profiler - reflow operation History backup - UPS Battery Backup System - Center rail Conveyor (op)
Dimension	● 2300 x 1704 x 1878 mm (1200kg)	● 1780 x 1370 x 1460 mm (1250 kg)	● 4800 x 1510 x 1550mm (1810kg)
AC Power	■ AC 220V 50/60Hz	■ AC 220V 50/60Hz , 4200W	■ 3P x380V/N 60Hz
AIR	● 5 br / 75 psi	● 5.5 bar / 80 psi	● 7.5 bar / 90 psi

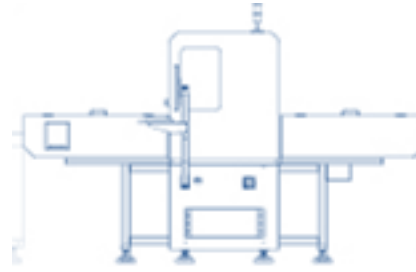


3. LED 전용 생산 장비 구성도 (Semi Auto Printer)

적용업종 : Tube Light (형광등. 조명 .인테리어 1.2m Switching Power. Other SMD Assembly에 적합.



Stencil Solder
Printer SP 1200
1100 x 1006 x 851mm



LED (범용 Chip Mount)
Pick & Place 1.2 /1.5m
1780x 1370x 1460mm



Work
Table Station
1200x800mm

Reflow 8 Hot Air Convection Reflow
Flux Filter System. N2(op) Quick Cool Down
4800 x 1510 x 1550mm

Model	PRINTER 1200	MOUNTER BA388V4	REFLOW CR-8000NP-F
SPEC	1. Max : 1200 x 300mm 2. Dimension : 2300 x 1700 x 1878mm (L) 3. Semi Automatic Stencil Printer 4. CCD Vision Camera Alignment (Manual) 5. Accuracy : +/-0.02mm 6. Automatic Load & Un Loading 7. Operation Windows 7	1. 0201 (0.6x0.3mm) SOIC, PLCC, BGA, μBGA,CSP, QFP, up to fine-pitch 0.3mm 2. Fly Vision & Bottom Vision alignment 3. Head Q'ty : 4 EA Speed : 8,800 cph hour 4. Work : Max. 1200 x 408 (Conveyor) 5. Feeder: Max.192 feeder(Conveyor) 6. Accuracy: +/-0.03mm 7. Solder Dispenser system (opt)	1. Heating Zone 8 Zone. Max 350°c 2. Max.550 width . N2.(op) 3. 2 x Flux Filter System. 4. Cooling system function 5. 3 x Channel Temperature Profiler 6. reflow operation History backup 7. UPS Battery Backup System 8. Center rail Conveyor (op)
Dimension	● 2300 x 1700 x 1878mm 870kg	● 1780 x 1370 x 1460 mm (1250 kg)	● 4800 x 1510 x 1550mm (1810kg)
AC Power	■ AC 220V 50/60Hz 1.2KW	■ AC 220V 50/60Hz , 4,2KW	■ 3P x380V/N 60Hz 65KW
AIR	⦿ 5 br / 75 psi	⦿ 5.5 bar / 80 psi	⦿ 7.5 bar / 90 psi



4. Medium

(LED. 범용 SMD 시장을 위한 장비구성)



Loader 600x700mm Size	Stencil Solder Printer SP 600/900 1100 x 1006 x 851mm	Work Table Station 600x700mm	LED (범용 Chip Mount) Pick & Place 385V 1270 x 990 x 1320mm	Work Table Station 600x700mm	Full Air Convection Reflow 551-15 2010 x 790x 550mm(Desk-Top)	Work Table Station 600x700mm
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MODEL	PRINTER (SP 600L/900L/1200L)	MOUNTER BA385V1 / V2	REFLOW 551-15 / 551-19 / 551-20
SPEC	- Max : 600 x 400mm - Extension Size : 600 x 600mm (SP 600L) - Semi Automatic Stencil Printer - CCD Vision Camera Alignment (Manual) - Accuracy : +/-0.01mm - Automatic Load & Un Loading	- Head Q'ty : 1 or 2 head - Speed : 4,000cph / 8,000 cph - Board : 440 x 350mm(WO/Con) - Max. 127개 / 64개 Conveyor - Dispenser for Bond / Solder (op) - Accuracy: +/-0.03mm	- Top 5 / under5 zone (Top 8 /Under 8=opt). - Max Conveyor .405mm - Energy Power Max 80% Saving - EU 안전8항목 모두 승인장비 - Built-in temperature profiler - 내구성 . 품질이 뛰어난 독일 SEF제조 장비
Dimension	1064 x 1006 x 851mm (SP600), 108kg 1100 x 1100 x 851mm (SP600L), 135kg	1270 x 990 x 1320 mm , 710kg	2010x790x550mm, 190kg
AC Power전기	220V(AC) 50/6Hz 200W	220V(AC) 50/6Hz 400W	3 x 380V.(N)220V
AR	5.5 bar	5.5 bar	no need



5. Lab Small & Multi



Printer
S80



Pick & Placer
10P



Reflow
4060



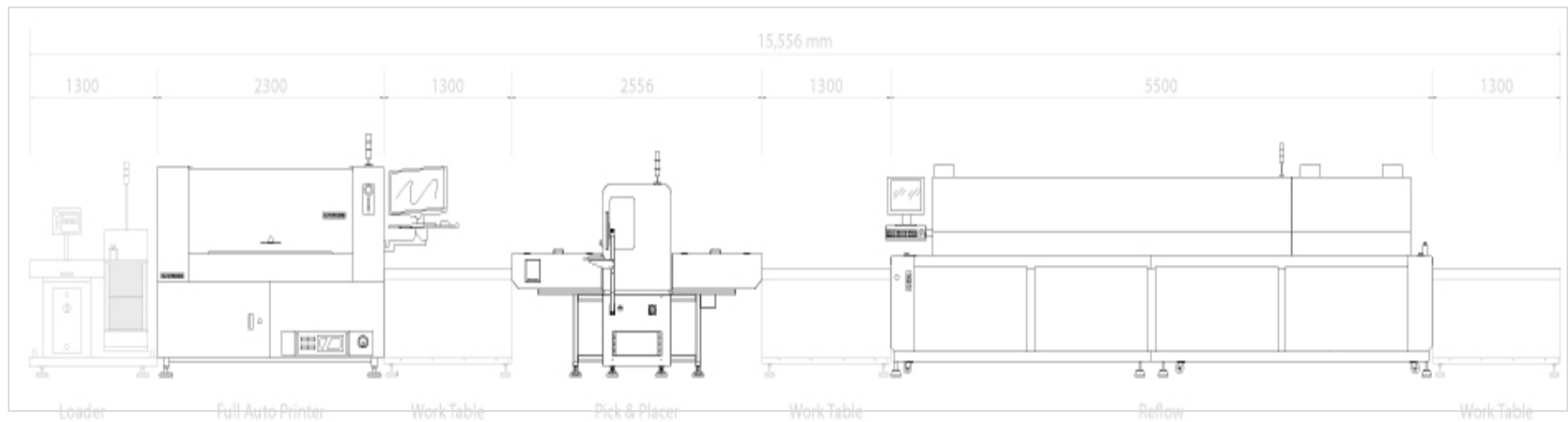
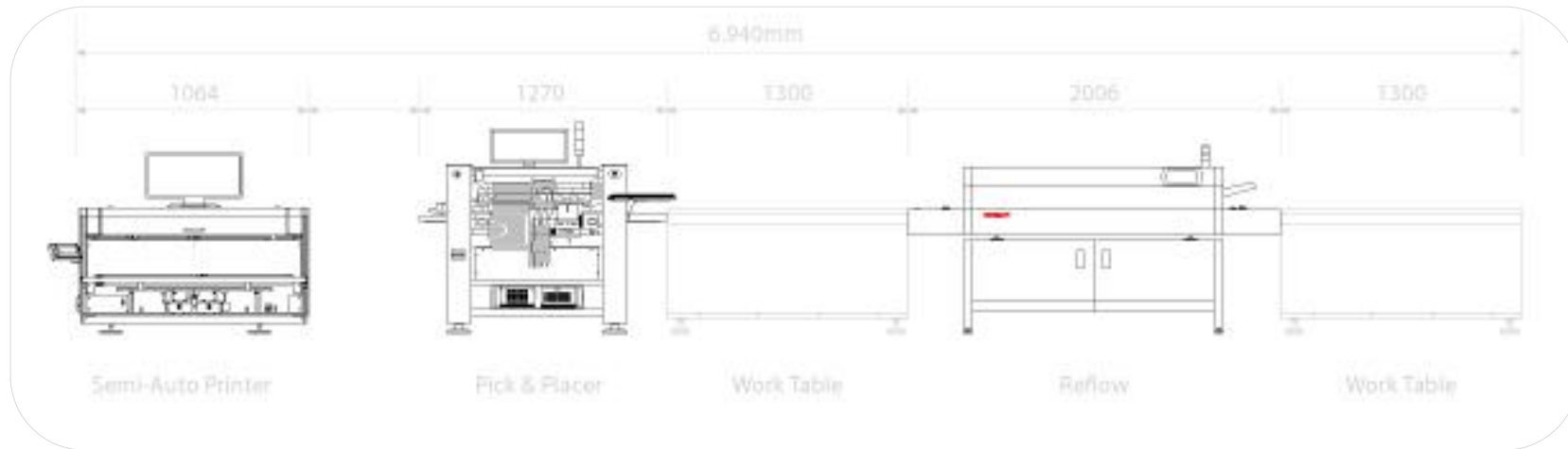
Model	Stencil Solder (Manual) S80	LED & Chip Pick & Place 10P / 15P	Small Batch Oven (Big Size PCB) 4060
Size	580 x 320 x 260mm	870 x 640 x 336mm	680 x 500x 220mm

Model	PRINTER S80	MOUNTER 15P	REFLOW 4060
SPEC	1) PCB Max 250 × 300 (mm) 2) X.Y.Z.D 세밀조정 3) Double Side Printing 4) Universal PCB Fixture (Standard) 5) Repeatability: ±0.01mm 6) Stencil Frame Balance Weight	1) Head Q'ty : 2 EA 2) Work Area : 370 x 450mm 3) Max Speed: 10,000 cph 4) Components Tape(8/12/16mm),BLUK 5)) Feeder: 27개 (Standard) Max.50 개 6) Accuracy : +/-0.03mm	1) Work : 400 x 600mm (Big Size) 2) IR Heating type. Max 280°c 3) 6개 최상의 Profile 저장 / 27개의 EDIT Mode 4) 온도 설정 온도 Profile 실시간 Graphic Guide 5) Automatic 작업 종료 알림 Service 6) 220V 단상 /60Hz
Dimension	580×320×260 mm, (14kg)	870 x 640 x 336mm, 45kg	680 x 500 x 220mm, 27kg
전기	No needs	220V(AC) 50 /60Hz. 160 Watts	AC220V / 60Hz, 2500W



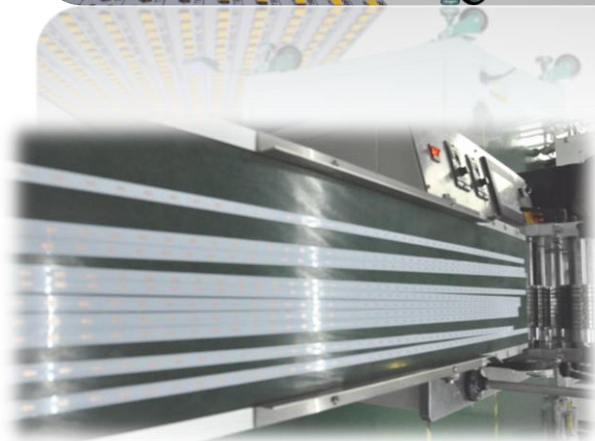


장비 필요공간 Lay Out





925 V-Cutting Machine



Product name :

PCB V cutting machine, LED aluminum plate
Cutter multi group multi blade Cutting Machine

LED aluminum plate cutter multi group multi blade
cutting machine LED separator.

In Line 연속작업 가능.

작업수량 설치 작업량 까지 V-Cutting
Array 최대 19개 까지 동시 자동 V-Cutting.

Model	Description	N 925
1	Dimension	2160x570x1050mm
2	Max Length of PCB	unlimited
3	Material of PCB	LED Bar LED , Fiber Board, Aluminum Board, and Special Plate
4	Cutting Thickness	0.2mm ~ 3mm
5	Min Cutting Width	8mm
6	Max Cutting Length	100mm
7	Blade Material	SKD11
8	Max Group Q'ty	19 Group
9	Speed	300 ~ 500mm / S
10	Power	220V 60/50Hz 40 Watts (110V/60Hz)
11	Weight	178Kg
12	Packing	200Kg



700x V-Cutting Machine



1,2m ~ 2.4m LED Light PCB Separator aluminum LED V-cutting machine aluminum plate cutter LED strip PCB Depanelizer (3 Pair Knife)

■ **Cutting Thickness** : 0.2mm ~ 3mm

■ **Application** : LED panel , fiberboard , aluminum plate aluminum substrate, copper. substrate., FR4, glass fiber board

- Metal PCB V-Cutting 작업
- 3단계 Cutting으로 칼날 손상 극소
- 하단 Blade 자동 조절 가능 Foot Switch 작동 가능
- 1.2m .2.4m 작업 가능한 Flatform



Model	Description	N 700	N 712	N 724
		No platform	1.2m platform	2.4m platform
1	Dimension	325x380x330mm	1200x500x330mm	2400x500x330mm
2	Max Length of PCB	unlimited		
3	Cutting Speed	80,120,200,400mm/s		
4	Cutting Thickness	0.2mm ~ 5mm		
5	Weight	33kg	33kg + 6Kg	33kg + 15Kg
6	Packing Size	390x340x340mm	390x340x340mm 1200x360x70mm (Platform)	
7	Weight	50Kg	56Kg	68Kg
8	Voltage . power	220V 50/60Hz 40Watts		



500x V-Cutting Machine

PCB V Cutt machine 747



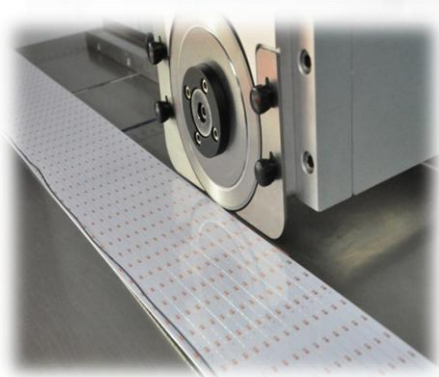
1,2m ~ 2.4m LED Light PCB Separator aluminum LED V cutting machine aluminum plate cutter LED strip PCB Depanelizer (1 Pair Knife) 1 개의 Blade Pair 로 V cutting 작업

□

■ **Cutting Thickness** : 0.2mm ~ 3mm

■ **Application** : LED panel , fiberboard , aluminum plate , aluminum substrate, copper substrate, FR4, glass fiber board

1.2m /2.4m LED T8 Light PCB Separator aluminum led cutting machine aluminum plate cutter LED strip PCB Detailed Product Description LED PCB up to 2400 mm PCB Separator Machine



Model	Description	N 500 No platform	N 512 1.2m platform	N 724 2.4m platform
1	Dimension	325x380x330mm	1200x500x330mm	2400x500x330mm
2	Max Length of PCB	unlimited		
3	Cutting Speed	0 - 1000mm/S		
4	Cutting Thickness	0.2mm ~ 5mm		
5	Weight	33kg	33kg +6Kg	33kg +15Kg
6	Packing Size	390x340x340mm	390x340x340mm 1200x360x70mm (Platform)	
7	Weight	50Kg	56Kg	68Kg
8	Voltage . power	220V 50/60Hz 40Watts		



SMD Assembly Equipment

Note :

