

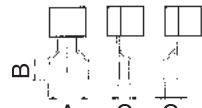
YF-900 自動電晶體成型機 Automatic Transistor Lead Forming Machine

電壓 Power: 110V/220V AC 50/60HZ
 尺寸 Dimension: 1050L x 600W x 900H m/m
 淨重 Weight: 140kgs

- Specialized for TO-92專用機。
- 採平面震動送料方式進料。
- 分割器安定、穩定性高。
- 不良率降至最低點，成型時不用換模具。
- Customized forming dies, tailor-make for customer's specification.
- Five pallet stations are suitable for mass production.
- Automatic feeding system is equipped with automatic Bowl feeder.
- Linear feeding trail is controlled by photoelectric sensor.



A	二腳分開	5
B	三腳切斷	3.6
C	中間腳前、後	2.5



RT-500 功率晶體成型機

Power Transistor Lead Forming Machine

機器尺寸 Dimension: 460mm (L), 360mm(W), 340mm(H)

重量 Weight: 29Kgs

電壓 Power Supply: 220V/110V 50/60HZ

加工量 Performance: Max 6,000 comp./h



RT-600 功率晶體成型機

Power Transistor Lead Forming Machine

For European and American Market with CE mark and safety protection.

機器尺寸 Dimensions of the basic machine:

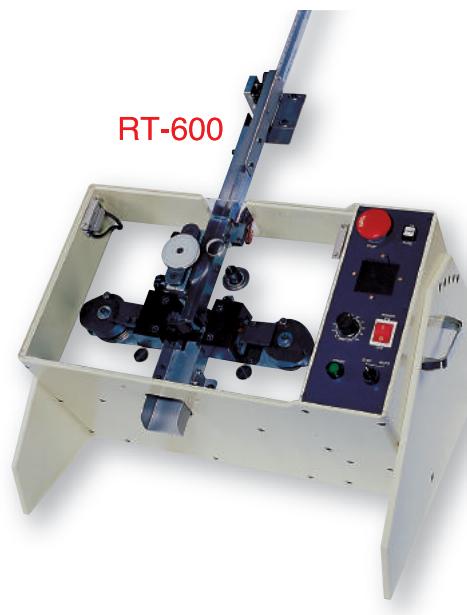
460mm (L), 360mm(W), 340mm(H)

重量 Weight: 29Kgs

電壓 Power Supply: 220V/110V 50/60HZ

加工量 Performance: Max 6,000 comp./h

- 適用於管裝之功率晶體。
- 外形類似之電子零件也能適用。
- 用模具做不同形狀之變化。
- 抽換式模具，更換迅速容易。
- 操作及保養容易，不需太多的訓練。
- 成形速度可無段式調速。
- 加裝震動送料盤即可成型散裝零件。
- Suitable for power transistors or similar components in stick or tube.
- Tooling set is changeable for various kinds of forming.
- Easy maintenance and simple die change. A set of die is equipped upon your spec.
- Forming speed is adjustable continuously.
- Vibrant Bowl Feeder is extendable optionally for loose package.



[AR Series] Pneumatic Lead Forming Tool 氣動成型機

- 電晶體、功率晶體、電容、電阻、已彎腳電阻等各種零件線腳均可加工成型，可配合多種型式模具。 Most kinds of components are available, die is customized.
- 成型切腳一次完成方便作業。 Single strike to form and cut.
- 體積小，模具更換容易。 Small and compact, change dies easily.
- 本機型配備一組訂製模具，模具成型規格依客戶需求製作。若需兩組以上，則可另購模具更換使用。 Die is customized upon forming spec., more spec. for more dies.
- 歡迎直接來圖面，我司立即提供解決方案！ Provide you suitable solution upon the forming drawing with spec.

AR-108 氣動式零件引腳成型機 - 單氣缸

Air Drive Lead Forming Machine-Single Cylinder

尺寸 Dimension: 420(L) x 300(W) x 200(H) mm

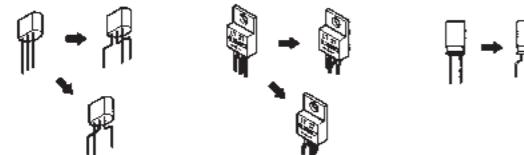
淨重 Net weight: 8 kgs

毛重 Shipping weight: 9 kgs

氣壓 Air Source: 5kgs/cm²

Features:

- 單氣缸提供單向成型力道。 Single forming direction.



AR-106 氣動式零件引腳成型機 - 雙氣缸

Air Drive Lead Forming Machine – Twin Cylinder

尺寸 Dimension: 420(L) x 300 (W)x 200(H) mm

淨重 Net weight: 10 kgs

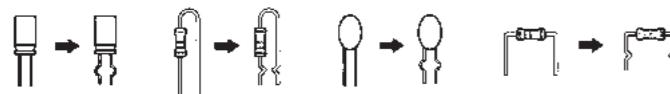
毛重 Shipping weight: 12 kgs

氣壓 Air Source: 5kgs/cm²

腳距範圍 Available Pitch: 7~20mm

Features:

- 雙氣缸從左右雙面成型。
- 梯形底座，適用騎放不同腳距Pitch零件。
- Twin cylinders form and cut from both sides.
- Trapezoid die base is available for different pitches.



AR-110 氣動式零件引腳裁斷機 - 單氣缸

Air Drive Lead Cutting Machine – Single Cylinder

尺寸 Dimension: 280(L) x 150 (W) x 130(H) mm

淨重 Net weight: 8kgs

毛重 Shipping weight: 12 kgs

氣壓 Air Source: 5kgs/cm²

腳長 After-Cut lead length: 0.4~6.5mm, customized available.

- 本機採用氣壓帶動切刀。 Air Drive cutter
- 切腳板上預留各樣孔位，適合各樣奇型怪狀零件之切腳。
- Diverse holes on cutting plates for different part leads.
- 可更換切腳板配合各種特殊異型零件。

Cutting plate can be tailored for odd parts.

切斷後腳長固定，請訂購時指明。

After-cut lead length is fixed, please, advice upon order.



CF-360 散裝電容剪腳機

Loose Radial Lead Cutter

電壓 Power: 110V/220V AC 50/60Hz

尺寸 Dimension: 500mm (L), 430mm(W), 470mm(H)

淨重 Weight: 24 Kgs

毛重 Shipping weight: 27kgs.

- 採平面送料，手放大小零件皆適用。
- 可依產量、場地擴充購買自動送料盤和送料機組。
- 特殊切斷法，刀具壽命長。
- 光纖計數，設定準確(計數器屬選配)
- 調整簡單，操作簡便，保養容易。
- Easy maintenance and simple operation.
- Upgradable to CF-366, add bowl feeder or worktable
- Linear Feeding on trail is suitable for most parts.
- Durable cutters from unique cutting method.
- Optical LED Component Counter is optional accessory.



CF-360X

	A 本體長度 Body Length	3 - 25 m/m
	H 腳長 Lead Length	3 - 20 m/m
	W 線徑 Wire diameter	0.4 - 2.0 m/m
	加工量 Working Capacity	150pcs/Min

CF-360LX 散裝電容90度彎腳機

Loose Radial Lead Bending & Cutting Machine

電壓 Power: 110V/220V AC 50/60Hz

尺寸 Dimension: 520mm (L), 500mm(W), 470mm(H)

淨重 Weight: 38 Kgs

毛重 Shipping weight:41 kgs

- 採平面震動送料方式進料，操作簡便。
- 手放大小零件(晶體、LED、電容等)均可適用
- 兩段式模具作業，先切斷再成型90度角。
- 切腳機組與成型機組可分開或合併使用
- 一機兩用途，少量多樣的90度成型，可解省模具成本。
- Linear vibrant feeding and easy operation.
- LED, crystal transistor, caps are suitable.
- Two steps: Cut and Bend into 90 degrees.
- Cutting and bending apparatus can be separated.
- Good for various 90-degree bend to save die cost.



CF-360LX



CF-366 自動散裝電容剪腳機

Automatic Loose radial Lead Cutter

電壓 Power: 110V/60HZ or 220V/50HZ

空壓 Air Source: 4 kgs/cm²

尺寸 Dimension: 1150mm (L), 700mm(Width), 1050mm(H)

淨重 Weight: 145 Kgs

加工量 Capability: 18,000pcs/Per hour

- 適合大量生產、短腳作業的最佳輔助設備。 Shorten leads in massive production.
- 切腳機組與振動送料機組可分開或合併使用。 Cutter can operate independently from bowl feeder and table.

型號 Models:

1.Specialized Single Function 單一零件功能 -

型號 Models	適用元件型狀 Available shapes	圖例 Example
CF -3661 	圓柱形狀 Cylindrical parts (Dia.) 4~8	Condenser, LED Electrolytic cap.
CF -3662 	方體零件 Cuboids parts (L* W* H) 3*3*3 ~15*23*8	Power transistor TO220, LED, Mila
CF -3663 	扁圓零件 Oblate.parts (Dia. * Thickness) 4*3 ~ 18*6	Film cap., Ceramic cap. Poly cap.

2.Multifunction 多功能 - CF-366 =CF-3661+CF-3662+CF-3663



CF-366X



CF-366

[CF Series] Loose Radial Lead Cutting Equipment 散裝電容剪腳設備

裁斷任何能站立的零件。Cut most radial leads: LED, Caps, Transistors, EC

CF-368 自動散裝電容切腳機

Automatic Loose Radial Lead Cutter

電壓 Power: 110/220VAC, 50/60Hz

機器尺寸 Dimension: 1050(L) x 1000(W) x 1000(H)mm

淨重 Net Weight: 160 Kgs

毛重 Shipping Weight: 210 kgs.

- 本機採用子母盤送料，適合切斷任何大型能站立的電子零件。
- 適用零件如電解電容、電晶體、功率晶體、LED、塑膠電容、陶質電容等。
- 更換規格簡單快速，子盤單價低廉。
- 本機可配合無限量的子盤使用。
- 大量生產或少量多樣皆適合，為短腳作業最佳輔助設備。
- 標準配備：附三個子盤供客戶選用，訂購本機時需要提供樣品，以利子盤製作。
- Available for components that can stand up in the rail of the machine. Such as FC, LED, Transistor, Mila/Ceramic caps.
- Suitable for the mass production or any flexible application.
- The best supporting equipment in shortening leads for soldering process.
- Quick preparation time with simple and easy dimension adjustment and interchange of Carry Wheel.
- Three 3 Carry Wheels are equipped as standard. Please, provide parts spec. to customized templates.
- The extra Carry Wheel is economy. Unlimited Carry Wheels can be used in wide range selection.



腳長 After-cut Lead Length	3- 20mm 可調 Adjustable
加工量 Capacity for dia. Ø4 - Ø8	350pcs/Minute
加工量 Capacity for dia. Ø8 - Ø10	200pcs/Minute
加工量 Capacity for dia. Ø13 - Ø16	120pcs/Minute

CF-150 散裝電容剪腳機

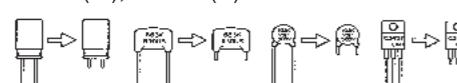
Loose Radial Lead Cutter

電壓 Power: 110/220 V AC 50/60Hz

尺寸 Dimension: 260mm (L), 260mm(W), 400mm(H)

淨重 Weight: 10 Kgs

毛重 Shipping Weight:



- 適用任何能站立的零件。
- 採平面送料，手放大小零件皆適用。
- 特殊切斷法，刀具壽命長。
- 調整簡單，操作簡便，保養容易。
- For most Radial parts: LED, Capacitors, Power Transistors, EC
- Linear Feeding on trail is suitable for most parts.
- Durable cutters from unique cutting method.
- Compact. Easy maintenance and simple operation.

A	本體長度 Body Length	3 - 25 m/m
H	腳長 Lead Length	Min. 3 mm
W	線徑 Wire diameter	0.35 – 1.2 m/m
加工量 Working Capacity		150pcs/ Min



CF-150



HCF-101 手搖帶式電容裁斷機

Manual Taped Radial Lead Trimmer by Hand Crank

尺寸 Dimension: 430(L), 320(W), 320(H)mm

淨重 Weight: 17 kgs

加工量 Capability: 25,000 pcs/hr (Manual)

CF-101 帶式電容裁斷機

Taped Radial Lead Trimmer

電壓 Power: 110V/220V AC. 60/50HZ

尺寸 Dimension: 520(L), 380(W), 300(H) mm

淨重 Weight: 24 Kgs

加工量 Capability: 60,000 pieces /Hour

- 馬達可無段變速、無噪音。
- 可選配加裝零件計數器。
- 適用卷裝、盒裝材料。
- 可選配加裝零件計數器。
- 體積小、切斷尺寸精確，適合短腳作業。
- 帶式單邊電阻、電容、晶體，電子零件切斷專用機。
- Quiet, high performance motor with adjustable speed.
- Cut off taped radial Resistor, Capacitor, Crystal and similar components leads.
- Suitable for single bandoleer in roller / reel or AMON box
- Compact, suitable for short lead operation with precise dimension
- Component counter is optional.



本體直徑 Body dia.	Unlimited 不限
L 腳長 Lead Length	3 – 20 mm 可調
W 線徑 Wire	0.4 – 1.0 mm



CF-120 帶裝立式零件成型機

Auto Taped Radial Lead Forming Machine

電壓 Power: 110/220 V AC 50/60Hz

尺寸 Dimension: 450mm (L), 450mm(Width), 500mm(H)

淨重 Weight: 24 Kgs

加工量 Capability: 7,200 pieces /Hour Max.

- 標準配有一組成型模具 和一組切刀。
- 常用90度彎腳、SMD貼片彎腳成型、前後K…等簡單型狀。
- 適用各種帶裝零件。
- 可成型切腳，或可只切腳。
- 成型式樣可依客戶要求製作。
- 速度可調，全自動供料。
- Suitable for various types of radial components.
- Forming tools are easy to changeover.
- Easy operation and simple operation.
- Welcome to hand us your forming drawing for best solution.
- Equipped one set of forming module and a set of cutter.
- For simple shapes: 90-degree bend, SMD bend, front and back kinks.



CF-130 帶裝立式零件成型機

Auto Taped Radial Lead Former / Cutter

電壓 Power: 110/220 V AC 50/60Hz

尺寸 Dimension: 450mm (L), 400mm(W), 500mm(H)

淨重 Weight: 42 Kgs

加工量 Capability: 7,200 pieces /Hour Max.

- 標準配有兩組成型模具 和一組切刀。
- 適合繁複成型型狀。
- Equipped TWO sets of forming module and a set of cutter.
- For complicated forming shape: inward kinks.

散裝電容成型機

Loose Radial Lead Forming Machine

電壓 Power: AC 220V 50 / 60HZ

機器尺寸 Dimension: 860 x 1370 x 1500mm

重量 Weight: 350KGS

氣壓 Air pressure: 4 ~ 5Kg / cm²

加工量 Capacity: 40~150pcs / Minute

三種機型Three Models: 可處理直徑Φ4mm~Φ20mm之零件

CF-408 Former-Φ4~Φ8mm

CF-1013 Former-Φ10~Φ13mm

CF-1620 Former-Φ16~Φ20mm

成型腳距 : 2.5~25mm皆可適用。

自動功能：入料、夾料、成型、切腳、完成退料

全自動化連續作業，一次完成。

成型範圍：原材料只要能由送料機，排列入料，本機就能自動成型，功能很強。

成型樣式：直線，內彎，外彎，前後彎，成型90度如有特殊形狀，可按圖或照樣品製作。

自動送料機：CF-0408使用單型盤CF-1013 & CF-1620使用子母盤送料。

傳動機構：使用凸輪及氣缸搭配，精確穩定耐用零件、模具標準化，更換容易。

電控系統：電腦化操作簡易功能強，無段變頻調速。

功能設定：成品自動計數，可直接包裝。

Component Pitch: 2.5~25mm available.

Procedure: Feed, hold, form, cut, finish and retreat materials automatically at a time.

Die and module are customized upon drawing with specification.

Range: Any stand-up materials that can align in a line can be formed automatically.

Apply for wide range of parts, it is a powerful machine.

Forming type: Straight, inward kinks, outward kinks, opposite kink, 90-degree bend and special forming shape can be tailored according to drawing or samples.

Feeder: CF-0408 uses single feeder..

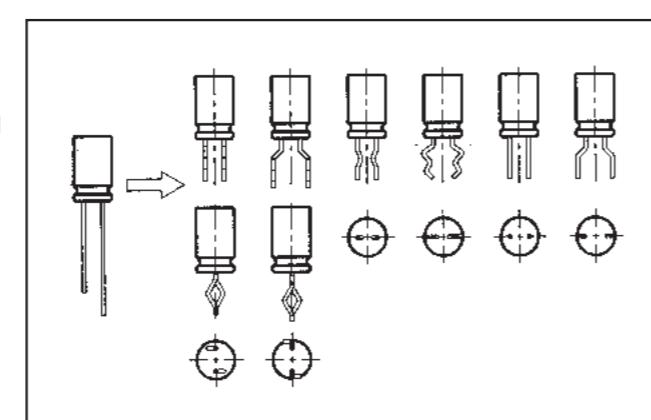
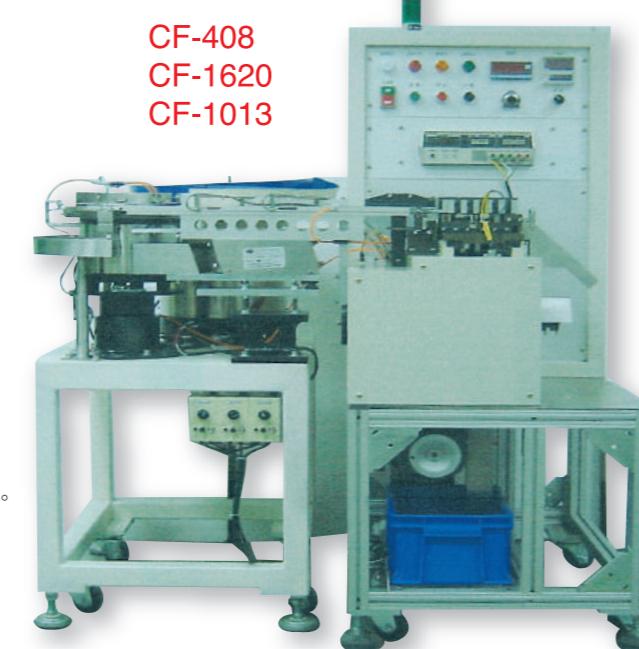
CF-1013 & CF-1620 use twin feeders.

Transmission: Cams and air cylinder operate accurately,stably and durably. Standardized spare parts are easy to change .

Electronic system: Computerized control panel and powerful function are helpful.

Speed control is stepless frequency.

Function set up: Count during production. Packing directly after compliment.



[RFT Series] Taped Axial Lead Bending Machine 帶式電阻彎腳成型機

• 保養容易，操作方便，不受空間限制不需進行人員培訓。

Easy maintenance, simple operation, and suitable for using on limited space. No training required.

• 對電阻及二極體之切斷及折彎曲加工能力強。 Excellent cutting or bending performance for resistors and diodes.

• 每小時量可達40000~60000個零件。 The production capacity is up to 60000 pcs/hr.

• 手搖式經濟性高不受外來因素影響(如停電)。 Low capital investment. Never be affected by black out!

• 體積輕巧，可安裝、夾於桌面上。 It is light and compact enough to be installed on a bench top.

• 堅固耐用，投資報酬值高。 Durable and high turn-over rate!

若有特殊規格，歡迎來圖訂製。 Customization according to your specification is available.

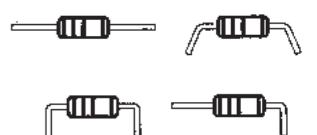
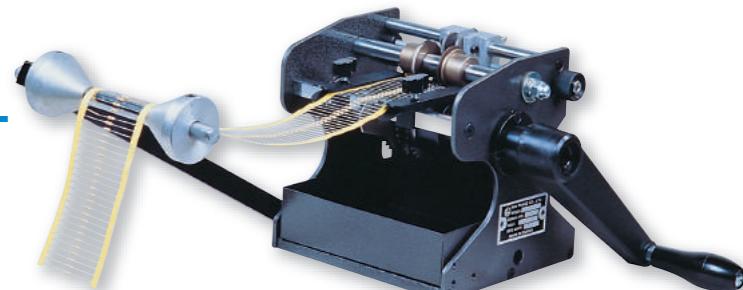
HRFT-301 手搖帶式電阻成型機

Manual Taped Axial Lead Former

尺寸 Dimension: 430L x300W x 280H mm

重量 Weight: 8kgs

加工量 Capacity: 25,000pcs/ hr



RFT-201 帶式電阻成型機

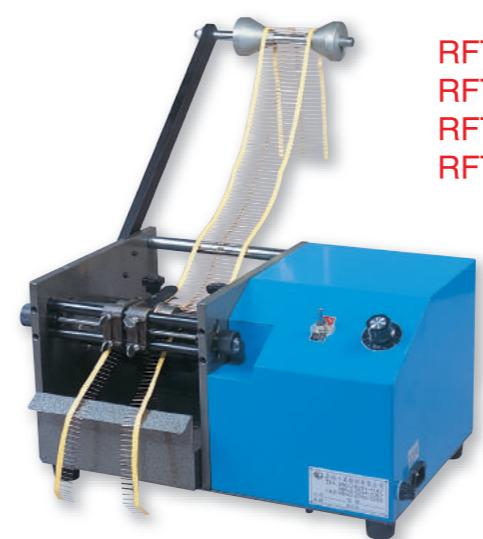
Taped Axial Lead Forming Machine

電壓 Power: 110/220 V AC. 60/50HZ

尺寸 Dimension: 520(L), 380(Width), 300(H)mm

重量 Weight: 24 Kgs. For taped packed components.

Models , parameters	Bending Types	專用型 Slim	標準型 Standard	加強型 Heavy duty	直立型 Vertical
Motorized Manual	RFT- 201S HRFT- 301S	RFT- 201U HRFT- 301U	RFT- 201W -----	RFT- 201F HRFT- 301F	
A – 腳距Pitch(Body Length for F)	5~40 mm	6~40 mm	6~40 mm	4~18 mm	
B – 腳長Lead Length	3.6~10 mm	3.6~10 mm	3.6~10 mm	Adjustable	
C – 肩距Shoulder	0.6 Min	1.2 Min	1.2 Min	4 Min	
D – 本體直徑Body Diameter	1.5~8 mm	1.5~8 mm	1.5~8 mm	1.5~8 mm	
H – 另腳長Support Length	-----	-----	-----	25 Max	
W – 線徑Lead Wire Diameter	Ø0.35 - Ø0.8 Ø0.35 - Ø0.6	Ø0.35 - Ø0.8 Ø0.35 - Ø0.8	Ø0.35 - Ø1.5 Ø0.35 - Ø0.8	Ø0.35 - Ø0.8 Ø0.35 - Ø0.8	Ø0.35 - Ø0.8 Ø0.35 - Ø0.8
P – 腳距 Pitch	-----	-----	-----	2.5~13.5	
R – 彎腳角度Bending Angle	-----	-----	-----	1	
加工量 Capacity	40000pcs/H	84000pcs/H	40000pcs/H	40000pcs/H	

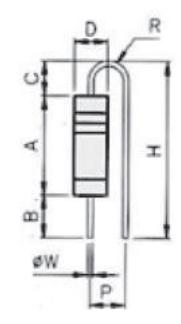
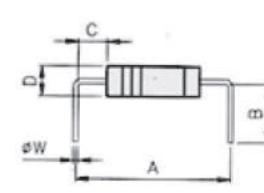


RFT-201U Standard

RFT-201S Slim

RFT-201W Heavy Duty

RFT-201F Vertical Lead forming



RT-79, RT-70 手搖, 自動帶式電容裁斷機

Hand-crank and Motorized Taped Radial Component Cutting Machine

- RT-79及RT-70為一種操作簡便、維修容易的帶式電容剪腳機。
- 不需要特殊的工具輔助即可使用，是生產線上的好幫手。
- 美觀、輕巧的設計，可直接放在加工桌面上使用。
- 堅固結構的設計，配合耐磨損的滾輪式切刀。
- 提供穩固的使用保證，在加工的過程中不會傷害到零件。

RT-7X series of high-speed motorized and hand-crank radial lead cutters offer easy, no tooling required set-up. These machines neither score nor damage component leads, even they don't lace mechanical stress or axial tension on the component. The machine cuts components from single bandoleers with a fully adjustable lead length from 2 mm to 10mm, and the blade will accommodate lead diameter from 0.3 mm to 1.2 mm.

- Independent rotary disc cutters obtain longer cutting life.
- Won't score or damage leads or components.
- Heavy duty construction. Easy maintenance.
- Simple operation.

配合不同的紙帶孔徑距離的規格，此機種有適用於：Different hole pitches (A) on paper tape apply for different models.

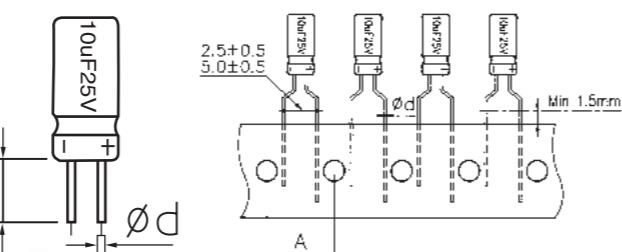
RT-79 手搖帶式電容裁斷機

Taped Radial Lead Cutter by hand crank

尺寸 Dimensions: 380(L) x 180(W) x 210(H) mm

淨重 Net Weight: 6 kgs

加工量 Production Rate: 25,000pcs/hr



RT-79
RT-79S

RT-70 自動帶式電容裁斷機

Motorized Taped Radial Lead Trimmer

尺寸 Dimensions: 520(L) x 380(W) x 300(H) mm

淨重 Net Weight: 16 kgs

加工量 Production Rate: 25,000pcs/hr

RT79+ MT1 = RT-70!

RT-79 can be upgraded to RT-70!!

RT-79可依需求產量加裝MT-1 升級 RT-70

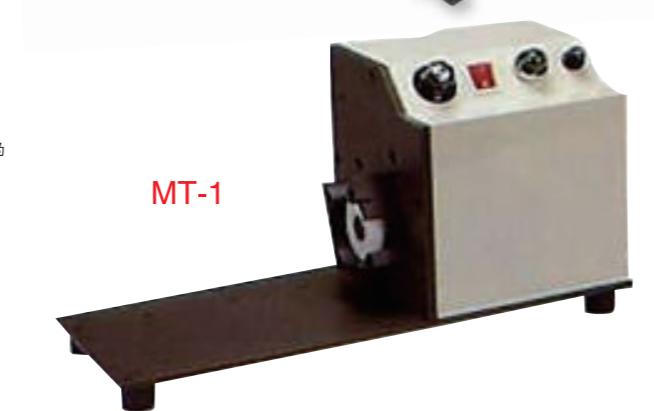


RT-70
RT-70S

MT-1 馬達配件組

Motorized Drive Unit

- 尺寸 Dimension: 470(L) x 180(W) x 235(H) mm
- 重量 Net weight: 7kgs
- 電壓 Power: 110/220V AC 60/50Hz
- 手搖式電阻成型機 (RT-80)、電容剪腳機 (RT-79) 可加裝此配備而升級為自動成型機 (RT-82+系列) 及自動剪腳機 (RT-70)。
- 馬達速度可調 模組化規格，方便安裝。
- Upgrade manual model into motorized models.
- Motor VR speed is adjustable. Module is easy to install.



MT-1

RT-8X 延伸系列電阻切彎腳成型機 - 可依產能需求擴充設備功能

RT-8X Series, Taped Axial Lead Bending Machines (U Shape) – Upgrade upon productivity

- Axial lead benders with rotary disc cutters offer no-tools-required setups and changeovers

高級模具從單一到自動化，針對散裝及帶式零件，可依需要而有不同的選擇性配備供客戶選擇。機身結構強固，配合壽命長的滾輪式切刀，提高操作簡易的加工設備。維修簡便，操作時不需特別的額外工具，以達到方便性。Changeovers and setups are simple and fast. Thank to no tooling required pitch and lead length adjustments. RT-8X series of axial lead formers do not score or damage component leads, nor do they place mechanical stress or axial tension on the components.

- 獨立的滾輪切刀壽命長
- 機體輕巧，操作方便，可依需求擴充功能
- 加工成型不傷害零件本體

依需求功能 本機型包括：

- 標準型
- 專用型 (S)
- 加強型 (W)
- 直立型 (F)
- 切直線 (L)

- Heavy duty construction, full adjustable for lead spacing, lead length, part diameter, and shoulder length.
- Independent rotary disc cutters for longer cutting life.
- Won't score or damage leads or components.

Different Models

- Standard
- (S) Slim lead- for smaller parts.
- (W) Heavy duty- for thicker wire diameter.
- (F) Vertical bending- for stand-up mount.
- (L) Linear- Trim off leads at both sides.

RT-80 手搖帶式電阻成型機

Hand-crank Taped Axial Lead Bender

尺寸 Dimensions:

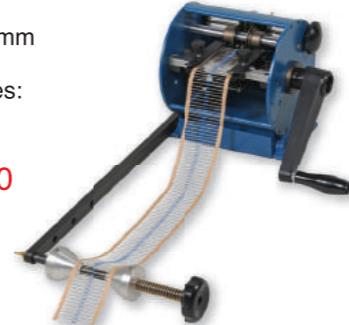
380L x 180W x 210H mm

淨重 Weight: 8Kgs

加工量 Production rates:

Taped 50,000 pcs/hr

RT-80



RT-82 帶式電阻成型機

Motorized Taped Axial Lead Bender

電壓 Power: 110V/220V AC.60/50Hz

尺寸 Dimensions: 470L x 180W x 235H mm

淨重 Weight: 15Kgs

加工量 Production rates:

Taped 60,000 pcs/hr



RT-82

RT-86 散裝及帶式電阻成型機

Motorized Taped and Loose Axial Lead Bender

電壓 Power: 110V/220V AC.60/50Hz

尺寸 Dimensions: 470L x 500W x 235H mm

淨重 Weight: 28Kgs

加工量 Production rates:

Taped 43,000 pcs/hr,

loose 7,200 pcs/hr

RT-86



RT-90 電阻成型機

Motorized Taped and Loose Axial Lead Bender with Bowl Feeder

電壓 Power: 110V/220V AC.60/50Hz

尺寸 Dimension: 600(L) x 590(W)x440(H)

淨重 Weight: 60kgs

加工量 Production rates:

Taped 43,000 pcs/hr,

loose 9,000 pcs/hr



RT-90

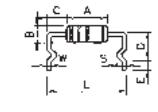
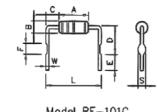
型式 Type	型號 Model				
手動 Manual	RT-80	RT-80S	-----	RT-80F	RT-80L
自動 Motorized	RT-82	RT-82S	RT-82W	RT-82F	RT-82L
入料器 + Hopper	RT-86	RT-86S	RT-86W	RT-86F	RT-86L
震動盤 + Bowl	RT-90	RT-90S	RT-90W	RT-90F	RT-90L
A - 本體長 Body Length	3.5 - 37.6	3.5 - 37.6	3.5 - 37.6	3.6-18	3.5 - 37.6
B - 腳長 Lead Length	3.5-10	3.5-10	3.5-10	2-12	
C - 肩寬 Shoulder	1.2 (Min)	0.6 (Min)	1.2 (Min)	3.5 (Min)	3 (Min)
W - 線徑 Wire diameter	Ø0.35 - Ø0.8	Ø0.35 - Ø0.8	Ø0.35 - Ø1.5	Ø0.35 - Ø0.8	Ø0.35 - Ø1
D - 本體直徑 Body Diameter	1.5-8	1.5-8	1.5-8	1.5-6	1.5-8
P - 腳距 Pitch	6-40	5-40	6-40	2.5-13.5	
H - 支腳長 Support lead	(mm)				
R-R 角 R Angle	25 Max				
	1-3				

RF-101電阻成型機

Axial Lead Forming Machine

- M型:臥式打KINK架高 M Type: Horizontal mount with kinks**
- C型:臥式打扁架高 C Type: Lay-down mount with smashing spots**
- F型:立式成型架高 F Type: Stand-up mount with kinks**

- 適合電阻、二級體、電感等軸向電元件使用。Form axial parts (resistor, diodes, inductance) leads.
- 為一多功能 適用於大量生產之生產線需求之成型加工機。Multi-taster for mass insertion DIP production.
- 成型的規格 可依客戶的需求而訂作模具 適用範圍大。Custom forming spec. upon request for wide range.
- 不同的規格只需要更換模具即可，提供使用上的彈性，以配合不同成型規格的需求。Change dies for diverse spec.
- 電壓 Power: 110/220 V AC. 60/50HZ
- 尺寸 Dimension: 1050(L), 600(W), 650(H)mm
- 重量 Weight: 115 Kgs.
- 加工量 Capacity: 110 pcs/Min

(m m)	型號	Model	RF - 101M	RF - 101C
	A 本體長度	Body length	3.8 ~ 20.0	
	B 本體大小	Body diameter	2.3 ~ 8.0 mm	
	C 肩距	Shoulder	1.2 Min	
	D 高度	Height (Critical)	固定 Fixed at 8 mm or other	
	E 腳長	Lead length	可調Adjustable	
	F 拆帶高度	Punching Height	2 mm (Fixed)	
	S 支持點	Supporting point	2 ~ 3 mm	W+0.4~1.5 mm
	L 兩腳寬度	Pitch	A + 2C	
	W 線徑	Wire diameter	Ø0.4 ~ Ø1.3	Ø0.8 ~ Ø1.3

M=MA+MB, C=CA+CB, F=FA+FB

適用於帶式及散裝零件 For both looose and tape packed components : RF-101-M、RF-101-C、RF-101-F

適用於散裝零件 For reel/tape packed components : RF-101-MA、RF-101-CA、RF-101FA

適用於帶式零件 For taped components : RF-101-MB、RF-101-CB、RF-101FB



RF-101-M

RF-101-MA



RF-101-MB



RF-101-FA



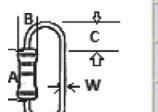
RF-101-FB

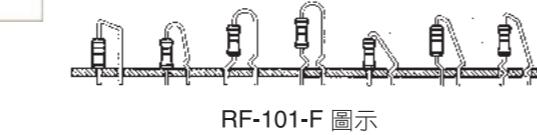


RF-101-M 圖示



RF-101-F 圖示

	A 本體長度	Body length	3.8 ~ 20 mm
	B 本體大小	Body diameter	2.3 ~ 8 mm
	C 肩距	Shoulder	最小1.2 Min
	D 高度	Height (Critical)	固定至少5(Min.) Fixed at 5mm or more
	E 腳長	Lead length	可調Adjustable
	P 脚距	Pitch	2.5的倍數 Fixed at certain
	W 線徑	Wire diameter	Ø0.4 ~ Ø1.5



RF-101-F 圖示

YF-730 拆帶機

Tape Ripping Apparatus - upgradable for RF series

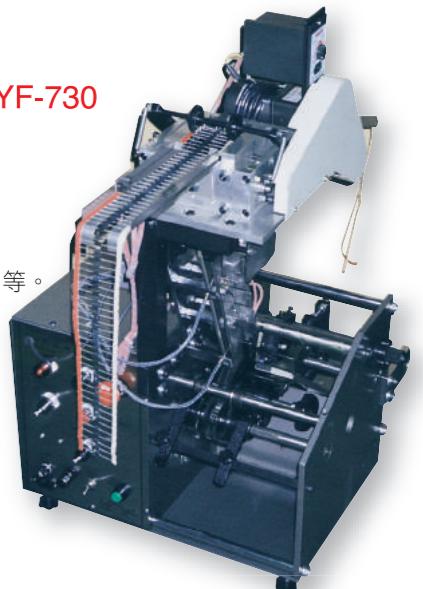
電壓 Power: AC 110 / 220 V 50 / 60HZ

尺寸 Dimension: 250 × 400 × 270mm

重量 Weight: 15KGS

加工量 Capacity: 750pcs/Minute

YF-730



- 可將已經貼好之帶式電阻、二極體的紙帶拆除。

- 利用逐漸外張力旋轉機構，拆除脫離兩旁紙帶。拆除後之軸向零件，能完整保持原樣平直。

- 本機YF-730可單獨使用，或連接散料漏斗進入下一個自動化製程，如切腳、成型、立式貼帶…等。

- 案例：3 A、5A帶式二極體成型立式，線長不足時就必須，拆除兩旁紙帶後再成型。

- YF-730 removes the paper tapes on leads.

Tapes are fixed in the both sides of resistor, diode component leads.

Tension of rotating mechanism removes the paper tapes off leads/legs.
This method keeps axial leads as straight as before.

YF-730 can operate individually or connect with loose material feeder into next automatic procedure, such as lead cutting, forming, vertical tapping and etc.

Example: Form taped 3A, 5A diodes into vertical mount shape.
Because the taped lead length is not long enough to cut and bend, the paper tapes on the both side of the leads must be removed first for more space to form and cut afterward.

YF-930 帶式電阻轉換機

Taped Resistor Transforming Machine

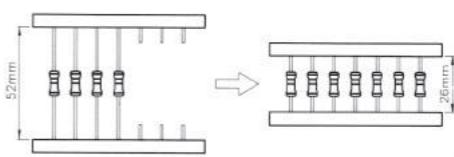
尺寸 Dimension: 700mm(L), 500mm(W), 10800mm(H)

重量 Weight: 70 Kgs

電壓 Power Supply: 110V/220V AC 60HZ/50HZ

加工量 Performance: Max 60,000 PCS/H

YF-930



- 可增加自動插件機排列數量。

- 適用各類電阻、二級體。

- 先貼帶，再剪帶，穩定性好。

- 操作簡單。

- Improve productivity of automatic insertion machine.

Let more rails can be lined in insertion machine.

- Apply to various types of Resistor and Diode.

- Stick & tape on first, then cut off original redundant tape.

- Easy maintenance and operation.

JF-93030 自動貼帶跳線機

Auto Jumper Wire Taping Machine

電壓 Voltage: 依使用的國家，不同特別配置。

It is depend on the different usage in each country.

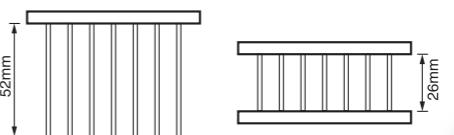
尺寸 Dimension: L103 x W85 x H133m/m

加工量 Capacity: 302 - 600 pcs/min

貼帶規格 Spec: 52MM, 42MM, 26MM

木箱 Shipping Wooden Case: L1000 x W700 x H1400m/m/1set

JF-93030



- 可同時成型及自動貼帶。

- 此機種有計數的功能，成型及貼帶的速度可調。

- 膠帶或紙帶用盡時，會自動停機。

- 容易操作和維修。

- 低噪音。

- 下料供給輪、下料片、包裝交接盤可調整。

- Forming and auto-taping at the same time.

- Counter and Speed adjustment (VR) are included.

- Stop automatically while tapes run out.

- Easy operation and maintenance.

- Quiet, low decibel number.

- Loading wheel, loading plate and packing connector plate are adjustable.



[JF Series] Jumper Wire Forming Machine 跳線彎腳成型系列

- 調整、維修、保養容易、採用特殊送料方式，運轉順暢，不會在線材上留下痕跡。
- Special feeding system prevent from damaging the wire. Easy adjustment and maintenance.
- 體積小、輕便、耗電少、價格低廉。
- Compact, light, energy-saving and economy.
- 採用碳化鎢模具壽命長。
- Using Tungsten Carbide Tool to assure of durability.
- 整卷線材全自動送料、切斷無須人操作。
- Automatic feeding system, without any labor.
- 腳長(H)固定，訂購時請指明。
- The Lead length (H) is fixed. Kindly specify in order.

JF-600 跳線成型機

Jumper Wire Forming Machine – Classic and long-lasting

速度 Speed: 7500/H
電壓 Power: 110V/220V AC. 60HZ/50HZ
尺寸 Dimension: L440 x W440 x H570m/m
重量 Weight: 37 Kgs

- 不須變換模具，即可將 L 從 5 ~ 42mm 隨意調整。
- Easy to adjust Length from 5-42mm without mold change.
- 腳長(H)固定，訂購時請指明。
- The Lead length (H) is fixed. Kindly specify in order.
- 腳寬(L)要達到 2.5 ~ 42mm 者，訂購時請指明。
- If the Lead width (L) is 2.5-42mm, kindly specify in order.
- 線徑(W)會達到 0.7 ~ 0.8mm 以上者，訂購時請指明。
- If Wire is thicker, please, specify in order.

JF-760 無廢料跳線成型機

Jumper Wire Forming Machine - No Waste, One Lead Length Adjustable, punching method.

速度 Speed: 7500/H
電壓 Power: A110V/220V AC. 60HZ/50HZ
尺寸 Dimension: L800 x W400 x H600m/m
重量 Weight: 44 Kgs

- 無廢料產生，腳長(h)可調。 No waste of material, (h) is adjustable.
- 安全停車裝置。 Emergency stop device is installed.
- 定量停車裝置。 With Quantity pre-set device.
- 電子計數幕顯示。 LED Display for Counter.

腳長(H)固定，訂購時請指明。

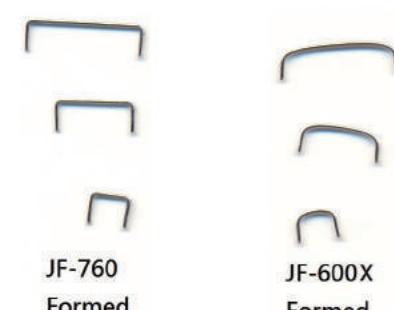
The Lead length (H) is fixed. Kindly specify in order.

JF-600X 跳線成型機(無廢料)

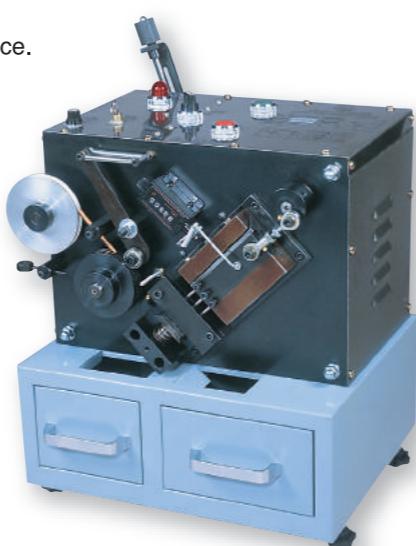
Jumper Wire Forming Machine- Economy, no waste.

速度 Speed: 7500/H
電壓 Power: 110V/220V AC. 60HZ/50HZ
尺寸 Dimension: L440 x W440 x H570mm
重量 Weight: 37 Kgs

- 體積小、輕便、耗電少、價格低廉、回收快。
- Compact, light, low energy consumption, return quick.



JF-600



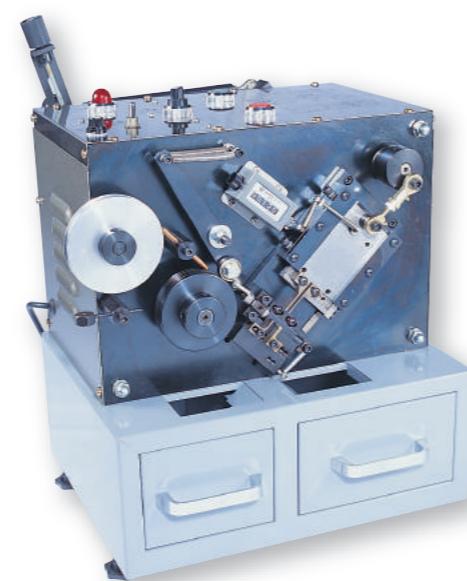
H	腳 長 Lead Length	Fixed 3 · 5 · 8 m/m , 固定規格
L	腳 寬 Lead Width	5 - 42 m/m
W	線 徑 Wire Diameter	φ0.6 - 0.7 m/m

JF-760



h	腳 長 Lead Length	0 - 12 m/m
H	腳 長 Lead Length	Fixed 3 · 5 · 8 m/m
L	腳 寬 Lead Width	5 - 30 m/m
W	線 徑 Wire Diameter	0.6 - 0.7 m/m

JF-600X



h	腳 長 Lead Length	0 - 12 m/m
H	腳 長 Lead Length	Fixed 3 · 5 · 8 m/m
L	腳 寬 Lead Width	5 - 35 m/m
W	線 徑 Wire	0.6 - 0.7 m/m

ICF-106 I.C. 整型機

I.C. Lead Forming & Cutting Machine – Punching method

一機三用：整型、剪腳、架高 Three purposes: Align, Cut & Form

電壓 Power: 110V/220V AC. 60HZ/50HZ

尺寸 Dimension: L500 x W400 x H360m/m

重量 Weight: 17 Kgs

ICF-106



• 加工範圍大，可用於多種IC。

• 小馬達，耗電少。

• 特殊進料及停動裝置，故障率低。

• 衝擊式，加工尺寸穩定。

• Wide application on various types of I.C.

• High quality motor from famous brand with low energy consumption.

• Special feeding jig and gearing system to assure of working reliability.

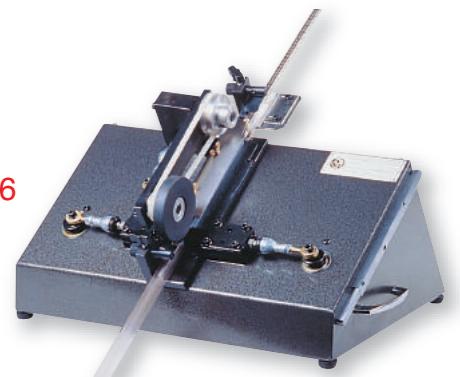
• Stable dimension control by Punching operation.

說明 Description:

• Fig.1 為一般標準型，附有0.3"及0.6"二種軌道，可另外選購0.4"及0.75"軌道。Fig.1 is "Standard Model" 0.3" and 0.6" feeding trails are enclosed in the shipment. 0.4" and 0.75" are optional.

• Fig.2 及 Fig.3 為訂做型，需另外購買，可集三功能於一機。Fig.2 and Fig.3 are "Customized Models". Three functions can be built and combined in one machine upon order.

• 訂做型需提供尺寸。Customization (Widen Leads...and etc.) is available upon the specification.



A	寬度 BodyWidth	6-20mm
H	長度 LeadLength	4-12.7mm
D	厚度 Thickness	4-12.7mm
L	成型寬度 WorkingWidth	0.3",0.4",0.6",0.75"

加工量 Capacity 7 sec./Standard I.C.in Tube

ICF-100 I.C. 整型機

I.C. Lead Aligning Machine – Roller Press

ICF-100

提供快速整腳的選擇 – 三秒即可整型完成 3 Seconds for one stick.

The most efficient way to stretch and align the IC leads.

電壓 Power: 110V/220V AC. 60HZ/50HZ

尺寸 Dimension: L330 x W250 x H330mm

重量 Weight: 5 Kgs

• 採滾輪式，快速整腳。

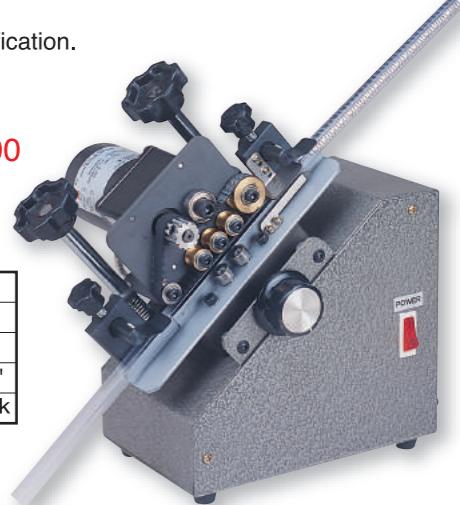
• 軌道可調式，旋轉調整。軌道寬度範圍 0.3" - 0.75"

• 適用於大量生產。

• Straight and align leads fast by rolling press operation.

• Simply adjusting the knob for different working width without changing any trails.

• Best selection for mass production.



A	寬度 Body w.	6-18mm
H	長度 Lead L.	4-9.5mm
D	厚度 Thickness	3-12mm
L	成型寬度 Width	0.3" - 0.75"

SMD Adapter
SMD轉換器

M-831 零件計數器

Component Counter - for DIP and SMD



DIP直立臥式、SMD零件皆適用!! 倉管盤點最佳伙伴!

最小零件腳徑 Min. lead diameter: Ø0.35mm

尺寸 Dimension: 350 x 300 x 280mm

淨重 Weight: 6Kgs

電壓 Power: 110V 或 220V AC

• SMD料帶和 DIP帶式料，均可計數，配用不同匹配器。Different adaptors are equipped for DIP or SMD parts.

• 可雙面計數 (向左或向右)。Counting in both directions (Leftward or rightward).

• 腳數分割可由 1~10 (選購品可要求至19)。Divider from 1 to 10 (up to 19 upon request).

• 可用累計模式計數。Accumulating mode is available.

• 用預設數量模式計數。Count to Pre-set amount and stop is one of modes. (with an audible signal when the desired components number is reached).

• 具有自動校正及自我診斷功能。

• 具有前次計數狀態及數量記憶。

• 可用外部偵測頭輸入。

• 可輸出控制外部馬達之信號。

• Automatic Calibration and self diagnostic procedure

• Remember last condition and amount.

• Input of external detector is extendable.

• Output for external motor control.

DIP components counting
帶裝DIP零件計數



M-831

[KA Series] PCB Lead Wire Cutting Machine PCB過焊錫爐後之剪腳作業

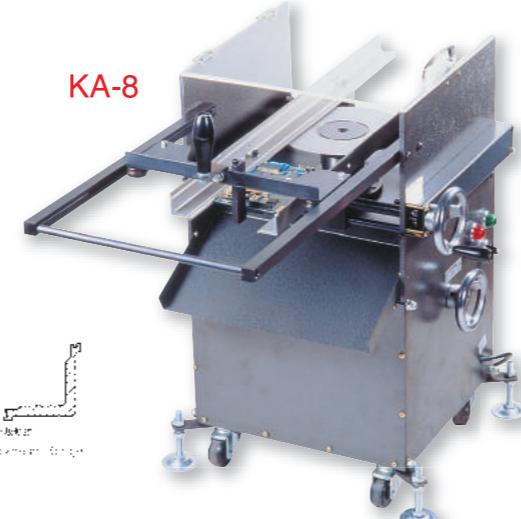
Cut parts' leas off assembled and soldered PCB

型號	Model (mm)	KA -8	KA -66	KA -B6	KA-22		
型式	Type	Manual feeding	Automatic	Automatic + Brush	Twin blade + Brush		
軌道厚度範圍	Thickness Range	0.8 ~ 1.2 & 1.6 ~ 2.0	0.8 ~ 2.5				
主軸轉速	RPM of Spindle	4500 鎢鋼刀為選購品，不屬於標準配備。 Tungsten Carbide Blade is optional.					
主軸馬力	HP	1/2 HP	3/4 HP				
軌道速度	Feeding Speed	Depend on operator	0-3 m / Minute	可調	Adjustable		
毛刷轉速	RPM of Brushing	----	600 RPM / 1/5HP , Brass/Copper Brush				
最低腳高	Min. Lead Height		1.0 mm Min				
最大 PC 板尺寸	MAX.PCB Working Size	400 (L) x 270(W)	500(L) x 280(W)	500(L) x 280(W)	420(W)		
機器尺寸	Dimension (L)x(W)x(H)	1050 x 570 x 750	900 x 670 x 800	1160 x 730 x 800	2700 x 1200 x 1100		
電壓	Power	110/220VAC , 50/60HZ	220VAC , 50/60HZ	220VAC , 50/60HZ	380V,Single phase		
淨重	Net Weight	73Kgs	115Kgs	200Kgs	350Kgs.		

KA-8 手推式PC板切腳機

KA-8 PCB Lead Cutter, by hand pushing

- 為PC板過錫爐後，剪腳最經濟選擇!使用超硬鎢鋼刀!
- 採用特殊L型軌道適用於兩種厚度範圍，0.8mm ~ 1.2mm或1.6mm ~ 2.0mm
- 超強的機身結構，高精密的製作方式，確保加工品質的穩定。
- The machine is designed to trim the wire leads off PCB assembly after soldering process.
- The fast turning Tungsten Carbide Blade cuts PCB wire leads while PCB is fed to trails one by one manually.
- Safety sensor stops the machine while acrylic cover is open.

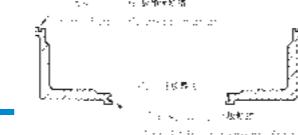


KA-8

KA-66 全自動PC板切腳機

Automatic PCB Lead Cutter

- 提供PC板過錫爐後之剪腳作業。
- 穩定性高，可與自動錫爐及插件機連線。
- 採爪片式彈片夾具夾緊PC板。爪片更換容易而且經濟。
- 附PC板防彎曲裝置，可克服因焊錫後變形PC板之切腳。
- 進料速度可做無段調整，最大速度3m/分鐘。
- 可銜接前後入料軌道，至錫錫爐，一貫化作業!
- Best Selection for effective production after PCB is soldered.
- KA-66 is designed to trim the extra long leads automatically and efficiently on the PCB that components are inserted and soldered.
- A pair of conveyor chains in KA-66 clamps and delivers the PCB to trim lead wire by high-speed turning blade.
- PCB Warp prevention device is equipped to ensure no damage and equal cut on boards.
- Linking conveyors are expandable. KA-66 can work independently. Optionally, KA-66 can connect with wave soldering machines by inlet and outlet conveyors for automatic thorough production line.



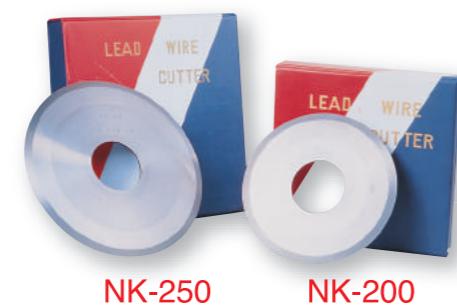
KA-66



NK-200 NK-250 超硬鎢鋼刀

Tungsten Carbide Steel Blade

For PCB Lead Wire Cutting machines usage.
Brand: Mitsubishi, Japanese and Taiwanese brands.



NK-250

NK-200

KA-B6 全自動PC板切腳及毛刷機

Automatic PCB-Brushing and Lead cutting Machine

- PC板適合範圍(軌道寬度範圍)：10 ~ 280mm
- 可安裝毛刷，清除沾粘之線腳。
- 可銜接自動錫錫爐進行一貫作業。
- 附有頂針及壓板裝置可防PC板變形。
- 銜接軌道前後高低可調整，適用於不同廠牌錫錫爐之銜接。
- PCB Working Range (Width of feeding trails): 10 ~ 300mm.
- Brush is suitable to clean and brush away lead residuals after cutting.
- Available to connect with Wave soldering machines in mass production.
- PCB Wrap-proof device is equipped.
- The heights of inlet and outlet conveyors are adjustable to meet various brands of soldering machines conveyor.

KA-B6



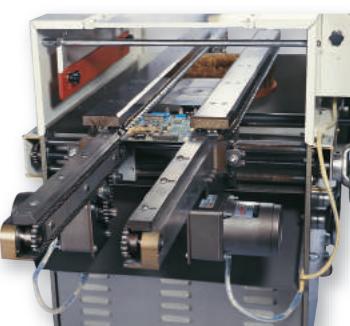
KA-B6 標準配備 Standard Accessories: 附於機台上 (Equipped)

1. Ø250 圓形銅刷一只。 Ø250mm Brass/ Copper Brush (1 Unit.)
2. 防上彎電木條一組，電木PC板壓台4個。 Warp-proof Bakelite bar (1 set)
3. 防PC板下彎刺形頂針一組。 Frame for warp-proof (4 sets).
4. 工具一套。 Warp prevention thimble wheel (1 set)
5. Tool set (1 set).

KA-B6 選擇性配備 Optional Accessories:

1.KA-B6 前入料銜接軌道 Inlet connecting conveyor

銜接自動錫錫爐使用，只要將入料軌道高度與自動錫錫爐出料軌道高度調整一樣，就可省略人工放料。即由自動錫錫→入銜接軌道→自動送入PC板切腳→由銅刷清除殘留於PC板上的錫珠或殘渣→PC板完成送出。Wave soldering machine→Inlet connecting conveyor→PCB Lead Wire Cutting Machine→Brush away residuals→Finish and send out.



KA-B6-IN

2.KA-B6-OU 後出料銜接軌道 Outlet connecting conveyor

當PC板經切腳及銅刷清理完成送出時，如果要再自動送板，連接下一站的工作，就必須再接上"後出料銜接軌道"，例如：二次錫錫作業或另接輸送機等... If next procedure after PCB is cut, brushed and sent out is needed, outlet connecting conveyor is needed as well. For example, second wave soldering machine or another insertion conveyor.



KA-B6-F

3.台架 Connection Frame

在下列狀況下需選購台架：

- a. 前入料銜接軌道要連接上一站的動作。
- b. 後出料銜接軌道要連接下一站的動作。

因為高度不同，需將整台機器架高，才能達到水平連接，就要使用此台架。

The following situations are for Connection Frame:

- A. Inlet connecting conveyor links to previous procedure.
 - B. Outlet connecting conveyor links to next procedure.
- Because of different heights, Connection Frame elevates Cutting Machine to equal level of soldering conveyors.



KA-680

4.銅刷 Brass/Copper Brush

BK- 250 , Diameter at 250mm.

BK- 320 , Diameter at 320mm.



BK-250

BK-320

5.鎢鋼刀片 Tungsten Carbide Steel Blade

KA-680 鎢鋼刀研磨機

Blade Re-sharpening Machine

- 乾磨、水磨均可適用，避免因委外加工造成之工期延誤及增加刀片研磨次數。

- 刃口研磨角度可調整。18°為常用角度。

- 採用循環冷卻及密封式設計，可降低耗材損失及保持清潔。

- 操作容易、保養簡易。

Simple and easy operation and maintenance.

No delay on production due to outsourcing re-sharpening.

This machine is designed and built to re-sharpening the tungsten carbide blades that are used in PCB Lead Wire Cutting Machine.

- Five Main portions:

1. Main frame of the machine
2. Electric control system
3. Coolant system
4. Grinding device
5. Feeding device

- The machine is available for dry or wet grinding operation, with or without coolant. The coolant is recycled and sealed to avoid waste and keep clean.

- Tip: The blade need to be re-grinned as it is worn out, grin in 1~2 days is normal

主軸轉速 RPM of Spindle	3000
刃口角度 Cutting Angle	可調 Adjustable 17° ~ 22°
鑽石砂輪 Diamond Wheel	125D-6W-2X-35T-14B-31.75H
電壓 Power	220V 50/60HZ
研磨速度 Cap acity	20 Minutes/Pcs
機器尺寸 Dimension	800(L) x 750(W) x 1200(H) m/m
淨重 Net Weight	135Kgs



[KA Series] PCB Cleaning and Brushing Machine after soldering

PCB 過焊錫爐後之清潔作業

- 專用於清除PC板上殘留物如錫珠，助焊劑，後焊修補痕跡之清理，使PC板面光亮。
- Brush away soldered tin residuals, flux vestige, clamp scratches and etc. after soldering machine or reflow oven and let PCB surface polished.

KA-83 PC板毛刷機

PCB Brushing Machine - By hand holding

- 有棕刷、毛刷任選一種。
- 刷除殘渣絕不會傷害PC板。
- 特殊處理不會產生靜電。
- Either Bristle Brush or Palm Fiber Brush is equipped. Brass Brush is available optionally.
- Hold PCB in hands and brush the PCB by the fast turning brush that is equipped in the machine.
- Never damage the surface of PCB during brushing.
- Anti-static design never damages on sensitive components.

主軸轉速	RPM of Spindle	600
毛刷尺寸	Brush Diameter	Ø250
PC 板最大尺寸	MAX. PCB Working Size	400mm(L) x 270mm(W)
機器尺寸	Dimension	500(L) x 500(W) x700(H)
電 壓	Power	110/220V 50/60HZ
淨 重	Net Weight	50Kgs

KA-B8 全自動 PC 板清潔毛刷機

Automatic PCB Brushing Machine

- 自動沾清潔劑，備有2道滾筒及毛刷清潔PC板。
- 滾筒毛刷作業中不會刮傷PC板。
- 滾筒毛刷清潔角度、高低、速度皆可調整。
- 附有壓板裝置，可防止PC板清潔時上浮。
- 可銜接自動焊錫爐，達到一貫作業。
- Automatic brushing the PCB by feeding trails.
- 2 sets of brush-rollers and 1 set of brush ensure the surface of PCB cleaned and polished completely.
- The speed, height and cleaning angle of brusher are adjustable.
- Pressing device can prevent big size PCB from wrapping during the operation.
- Connection to a wave soldering machine with Inlet and outlet conveyor is available!

軌道速度	RPM of Speed	0 – 3 M adjustable
PCB 尺寸	PCB working size	10mm ~ 250mm
毛刷轉速	RPM of brusher	0 ~ 700 rpm
機器尺寸	Dimension	1480(L) x 700(W) x 800(H) m/m
電壓	Power	220V
淨重	Net Weight	160Kgs

KAR-4 基板鋸錫架

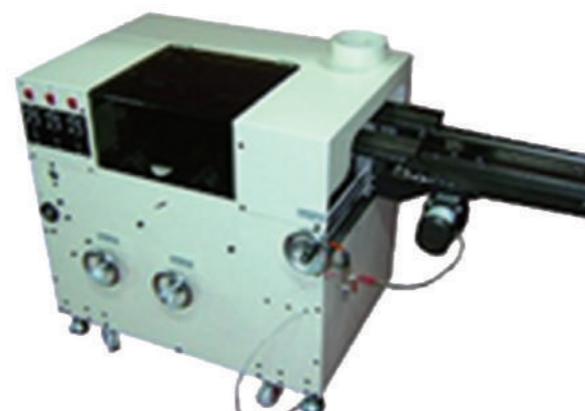
PCB Carrier for Insertion Line

- 本焊錫架全部採用6061鋁合金製造。
- 鋁擠型外框、夾持座、固定座、托板、錫板均經特殊處理。耐磨、耐高溫、耐腐蝕、硬度高、不變形、不沾錫。
- 直焊、橫焊操作自如，且大小基板皆可適用。
- 夾持基板之彈簧片採用鈦合金，不沾錫。
- 配有四個固定彈簧片，四個移動彈簧片。
- This carrier is made of 6061 Aluminum alloy.
- The outer frame of aluminum press, clamp stand, fixed stand, supporting board and tin resistible panel are handled and treated specially for wear proof, thermostability, anti-corrosion, strengthened hardness, firm and tin-resistible.
- Straight or transversal soldering direction is available for any sizes of PCB.
- Clamp spring is made of titanium alloy to resist from tin residuals. 4 fixed and 4 movable clamp springs are equipped.

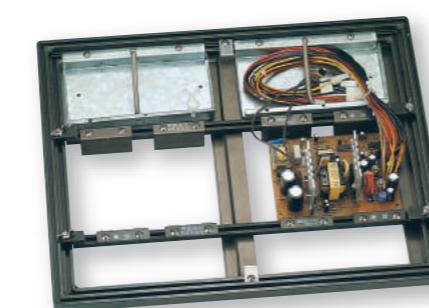
KA-83



KA-B8



KAR-4



NTG-520N PCB V槽折板機

Pre-scored PCB Depaneling Machine – Roller slice

電壓 Power: 110V/220V, 50/60HZ

機器尺寸 Dimension: (L) 430 x (W) 430 x (H) 520 mm

重量 Weight: 36Kgs

PC板可折厚度PCB thickness range: 0.8-2.0mm

• 處理V-cut分板作業，採用無應力設計理念。

• 切刀可垂直調整，左右校對。

• 滾刀順形於V槽，將板分離。

• 滾刀輪軸速度可調整。

• 可調整之導片裝置，可依PCB的厚度作微調。

• PC板最寬可折168mm，長度無限制。另可選購加裝寬版平台。

• Separate V-cut panel boards/PCB without bending stress.

• The blades are adjustable both in vertical and horizontal directions.

• The round blades separate the board along with the V-groove.

• Slightly adjust according to PCB thickness.

• The depaneling maximum of PCB width is 168mm, the PCB length is unlimited. Widen platform is available.

NTG-520N



NTG-350 PC板V槽折板機 - 開刀式折板機

Pre-scored PCB Depaneling Machine – Chopper type

電壓 Air source: Compressed air 5kg/cm²

尺寸 Dimension: (L)720 x (W)500 x (H)1070 mm

重量 Weight: 190Kgs

刀長 Knife length: 350mm, 400mm可訂製Available

厚度 PCB thickness range: 0.3mm ~ 3.0mm

• NTG-350分板機，採用無彎曲應力設計理念，處理V-cut連板分板作業。

• 採氣動式零件驅動，安靜無噪音，分板時絕無震動產生。

• 即使敏感度極高SMD零件或超薄PC板也可安全分板。

• 新式改良無限分段式切割技術，將應力消除。

• 刀片間隙可以輕鬆調整，以適合不同板厚的電路板。

• 非熟手也可以輕鬆操作及保養。

• PCB with sensitive SMD, capacitors or thin board even to 0.3mm can be worked safely.

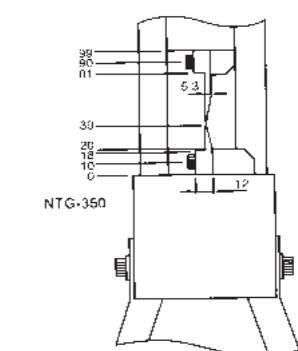
• Gap between knives for inlet of the boards can easily be adjusted by the adjusting knob in front of the machine.

• New depaneling process without vibration due to air drive unit.

• Easy maintenance and operation.

• Pneumatic control is placed in a separate unit for easier maintenance.

NTG-350





NTG-20 V-CUT走刀式分板機

V-CUT/Pre-scored PCB Depaneling Machine – Moving Blade

電壓 Power : AC 110 / 220 V 50 / 60HZ

刀輪行程 Blade Route: 400mm / Max at a time.

刀輪尺寸 Blade Size: ϕ 145mm

下刀尺寸 Down- Blade Size: 500mm

刀輪速度 Blade Speed: 500mm/sec

P.C 板厚 PCB Cut Thickness: 0.6 ~ 3.2mm

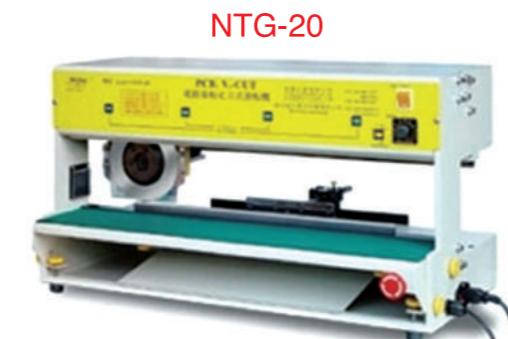
重量 Weight: 45 KGS

機台尺寸 Dimension: 780 x 400 x 450mm

- 無彎曲應力設計理念，處理V-Cut分板作業
- 靜止P.C板平放，滾走式刀輪，無應力分板
- 切割行程採分段式調整，連板分割快速
- 採用D.C無碳刷馬達驅動，切割力量平均
- 滾刀切割速度可調，順著V-Cut槽將板分離
- 圓滾刀、下長刀可微調校對，刀鈍可研磨
- 有異形零件跨越V-Cut溝槽，可訂製符合需求
- 長、短P.C板分割作業皆適合，機構精密耐
- No bending stress design operates along with V-Cut PCB groove.
- Lay down stable PCB and rotary moving blade cut without stress.
- Rotary movement is adjustable in different route.
- D.C. Brushless IPM Motor helps even cutting stress.
- Rotary speed of round blade is adjustable.
- Round blade and straight knife can be re-sharpened.
- When parts cross the groove, NTG-430 can customize bottom straight trail to leave space for odd parts prevent from cut.
- Durable and accurate mechanism is suitable for any PCB separation.



NTG-430



NTG-20



NTG-350

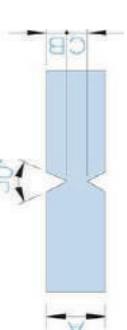
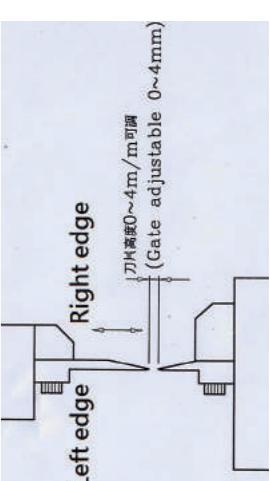


NTG-20



NTG-20

	NTG-520N	NTG-11	NTG-20	NTG-20NS	NTG-430	NTG-350	NTG-350L
Machine Dimension (L x W x H) 尺寸	430 x 430 x 520	570 x 270 x 420	760 x 350 x 380	720 x 380 x 400	780 x 400 x 450	720 x 500 x 1070	720 x 500 x 1070
Machine N.W. 淨重	36 kgs	35 kgs	25 kgs	57 kgs	45 kgs	190 kgs	195 kgs
Feasible PCB length 可切PCB長度	Unlimited 不限	Max.320 mm	最長	Max. 400mm	最長	Max. 350 mm	最長
Feasible PCB width 可切PCB寬度	Max. 160mm	最寬			Unlimited 不限	Max. 400 mm	最長
PCB thickness (A) 可處理PCB厚度				0.4~2.0mm	1/3~1A	0.2~3.0mm	
Depth (B) and Leftover PCB (C) 潛槽深度					Any except aluminum board. 除鋁基板外，皆可適用。		
PCB material PCB材質							
Edge from Groove 離V-CUT邊最近距離	Max. 35mm	Max. 20mm	Max. 30mm	Max. 20mm	Max. 30mm	Max. 30mm	Min. 1.0 in right 至少離右刃. Min. 0.5 in left 至少離左刃
Height of parts on PCB 板上零件限高	Max. 15mm	Max. 20mm	Max. 13mm	Max. 10mm	Max. 5 mm	Max. 5 mm	Max. 5 mm
Height of parts under PCB 板下零件限高							N/A, one time cut 一次刀斷，補作業員速度
Working speed, VR 速度範圍				0~100			
Feeding direction PCB送入方向	from Left to right 從左至右	Insert up front 正前插入	from Left to right, back and forth	Adjustable up to linear blade level 可調整與下直刀切齊	行程可調左到右，右到左，來回往覆	No. Specialized for ODD PCB No. 訂製專用於不規則PCB	Feed from the side or front 頂面或正面供料
PCB support platform PCB放置平臺	Extendable 可伸縮	可視需求加大	Up 上直刀 Down 下直刀	Up上直刀直徑 Ø 145mm; Down下直刀直徑 Ø 120mm	Up上直刀 Down下直刀	Blade Length: 350mm 刀長: 350mm	Extendable optionally 可視需求裝
Blade spec. 刀規規格	Blade dia.: 145mm 直徑	Blade dia.: 120mm 直徑	Upper passive rolling 上被動 Bottom active rolling 下主動	Rolling&moving blade 上移動、被動捲刀 Fried bottom trail 固定下刀 Round, like Pizza slider 如披薩刀 Round, like Pizza slider Round, like Pizza slider	Rolling&moving blade 上移動、被動捲刀 Fried bottom trail 固定下刀 如披薩刀 Round, like Pizza slider	Blade Length: 350mm 刀長: 350mm	Chopper 離刀式 Fried blades 固定刀 Straight, like Pork Chopper 直如切肉刀 如披薩刀
Blade type 刀型式	上切刀 下切刀	切刀型式	Power Switch 功率開關	Controlled by foot switch 腳踏板 Emergency stop button 緊急按鍵	YES 有 Conveyor belt 任選捲帶方向 leftward or rightward one way Link to main production line.	N/A 無 Easy maintenance and operation 操作容易，保養簡單 Low bending stress 低應力 No vibration. 無震動	*Please advise us the drawings of your PCB that you wish to cut in order to provide you the best solution. 歡迎提供需將處理PCB樣品，以提供最適解決方案！
Operation 使用操作							
Illumination lamp 照明燈	N/A	特點					
Features							



*Please advise us the drawings of your PCB that you wish to cut
in order to provide you the best solution.
歡迎提供需將處理PCB樣品，以提供最適解決方案！

*We can design gauge/jig to hold non-pressed PCB during process.

能夠設計專製治具來切異形板或是無薄槽PCB

Never try to cut PCB without V-Cut
This will damage the knife and PCB/PWB.

請勿切無V槽的PCB，切入和PCB皆會損壞

NTG-20-NS V-CUT走刀式分板機 / 附皮帶輸送

V-CUT/Pre-scored Depaneling Machine – Moving blade type with Belt Conveyor

電壓 Power: AC 110 / 220 V 50 / 60HZ

重量 Weight: 56 KGS

機台尺寸 Dimension: 1280 x 400 x 450mm

- NTG-20-NS是有加裝皮帶輸送機構
- 皮帶輸送是選購配備，可依需要增加
- 輸送皮帶可將分板後PC板送到下一個工作站
- 輸送皮帶與分板機同步，向左或右方向輸送
- NTG-20NS is the machine with belt conveyor.
- Belt conveyor is optionally accessory, installed upon requirement.
- NTG-20NS transmits after-cut PC boards to the next working station.
- The transmitting direction can be selected either from left or from right.
- Synchronize with V-CUT machine's working direction.



NTG-20-NS

REN THANG CO., LTD

NTG Series
Comparison Chart:
NTG 系列規格比較表



[STP系列 - 錫膏印刷機 Stencil Printer]

專用於SMT錫膏鋼版、網版印刷。適用精密細小腳距。採用無工具更換，不同規格變更快速又容易。雙面板印刷可以快速更換完成，且非常精密。設定及清除快速。X、Y軸角度可以調整。
Special for SMT stencil and screen printing. Available for precise and fine pitch and double side printing.
Quick set up and remove. X and Y axial angles are adjustable. Change different boards fast without tools.
Double side printing can be completed and changed quickly and precisely.

STP-450 手動錫膏印刷機

Manual Stencil Printer

適合框架 Available frame: 20"x 20"(508 x 508mm)
印刷範圍 Printing area: 16"x 18"(406 x 457mm)
重覆誤差 Repeatability: 0.008mm
機台重量 Weight: 50Kg
刮刀長度 Length of squeegee: 10" (225mm)
機台尺寸 Dimension: 840 x 920 x 250mm

Key Features

- Very precise, self-locking X, Y, and theta adjustments
- Tooling for double-sided board, single or double side boards are available.
- Accepts frames to 20" x 20" (508 x 508mm)
- Print area 16" x 18" (406 x 457mm)
- 0.0003" repeatability
- Sturdy - weighs 110lbs
- Quick setup, quick cleanup and easy maintenance.
- Handheld squeegee with 10", 90 durometer rubber blade

STP-550 半自動錫膏印刷機

Semiautomatic Stencil Printer

適合框架 Suitable frame: 12" x 12" to 24"x 24"(300 mm x 300 mm to 600 x 600mm)
印刷範圍 Printing area: 14"x 17"(356 x 430mm)

重覆誤差 Repeatability: 0.008mm
機台重量 Weight: 60Kg
刮刀長度 Length of squeegee: 9" (228mm)
機台尺寸 Dimension: 840 x 920 x 250mm
選購刮刀 Optional Squeegee : 12"、14"、16"、17"

STP-550: 是一部有彈性的，半自動表面黏著，錫膏印刷機。它包括了自動印刷機所應含的功能，特別適合樣品試作，及少量多樣化的生產使用。

刮刀裝置: 支架有雙氣缸控制鋼刮刀片，保持固定壓力和角度，手握手把推向左側，右刮刀即下降印刷。當反向拉回則右刮刀會上升，左刮刀下降，作二次印刷。

可確保印刷錫面均勻，錫膏厚度穩定。

底座升降裝置: 當印刷完成時，推動黃色旋鈕，底座機構即平順垂直下降，此裝置可確保網版與PCB板分離時，不會造成錫膏之沾黏現象，可保持版面清潔。

對位裝置: 精密X、Y軸調整機構，可自由的做對位調整。

開起裝置: 結構穩定之印刷框架，由氣缸自動控制開合。

STP-550 provides consistent stencil height and pressure throughout the print stroke

Separate the stencil from the PCB with a true vertical motion.

Vertical separation is an essential process parameter for ultra-fine pitch solder paste printing.

This ergonomically unique design features side-to-side squeegee motion for single or double-sided boards.

Lower cost, bench top equipment is for the volume that doesn't warrant these more costly systems.

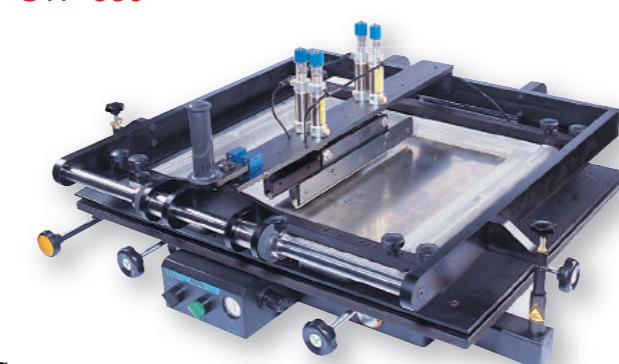
Key Features:

- Vertical separation of stencil from PCB for high-reliability, ultra fine-pitch printing.
- Dual squeegees with independent pressure controls for bi-directional printing.
- Squeegee holders mounted to linear slides maintain consistent height and pressure throughout print stroke.
- Ergonomic design with unique side-to-side squeegee motion for maximum operator ease.
- Large work area for PCBs up to 356 mm x 430 mm (14" x 17")
- Accepts stencil frames up to 600 mm x 600 mm (24" x 24")
- Highly precise, heavy-duty design weighs approximately 75 Kg.
- Pneumatically controlled raising and lowering for PCB loading/unloading.
- Universal PCB holders and supports for single or double-sided boards.
- Metal and rubber squeegees included.

STP-450



STP-550



[SMT系列 - 貼片機 Pick and Place for small batch and prototype]

面臨少量多樣的產能、打樣板 和 自動機台無法貼特殊料件的困擾嗎？SMT系列是讓您更快能手動上件製作樣板的利器！
Encountered low volume assembly, prototyping, engineering changes, boards with high through-hole parts counts, or odd-shaped parts that can't be placed with your automatic machines!! Speed up your manual assembly department and increase your product quality with SMT-401 and SMT-402 manual assembly equipment.

SMT半自動貼片機

Semiautomatic SMT Pick and Place Machine

電壓 Power: AC 220 V 50 / 60HZ
重量 Weight: 22 KGS
氣壓 Air Source: 4 ~ 5Kg / cm²
入料器 Feeder: 16 Set
料件盒 Material Box: 90 PCS
最大可用PCB尺寸 MAX. PCB Working Size: 250 x 300mm
產能 Capacity: 20~50pcs / Minute
尺寸 Dimension: 800 x 720 x 300mm

特性:

- 特別適用樣品試作，變更頻繁少量多樣生產使用。
- 用穩定而快速吸取SMT零件貼合於PCB板上。
- X與Y滑動軸吸取SMT零件放置不會晃動。
- 360度旋轉料架，可放置90種不同零件。
- 可安裝16組SMT捲帶料架，大小料帶皆適合。
- 真空吸嘴可吸取任何大小不同SMT電子零件。
- 多台並聯，只小額投資就可達到大量生產效益。

Key Features:

- SMT-401 is great for sample design, especially for changeable small quantity diverse production.
- Suck quickly SMT components and place on the PCB.
- Sliding X and Y axles keep SMT components placed stable on PCB.
- Sucking head rotates 360 degrees. Fast changeover sucking nozzles.
- Part carousel load 90 kinds of loose components.
- Tape feeder bases hold for 16 sets of SMT tape reel
- Several SMT-401 connect to bigger production volume and increase efficiency on only small investment.

SMT-401



SMT半自動點膠 / 貼片機

Semiautomatic SMT Pick and Place with Dispenser

電壓 Power: AC 220 V 50 / 60HZ
重量 Weight: 22 KGS
空氣氣壓 Air Source: 4 ~ 5 Kg / cm²
入料器 Feeder: 16 Set
料件盒 Material Box: 90 PCS
最大可用PCB尺寸 MAX. PCB Working Size: 250 x 300mm
尺寸 Dimension: 800 x 720 x 300mm

SMT-402: 是一套手動的SMT貼片及點膠功能二合一產品，它包含了，自動貼片機所應含的功能，特別適合樣品試作業，及少量多樣化的生產使用。

真空取頭: X與Y滑動軸移動非常靈巧，依人體工學設計，可調整真空吸頭，自動吸取或放置，只需要以吸嘴碰觸元件，便可輕易的將元件吸取，並可以360度旋轉來對位PCB。

點膠機: 內含有點膠功能，可以精準的調整出膠量，微調膠液濃度、點膠時間、膠液的流量壓力，達到精確點膠。

料件取置槽: 360度轉盤上有配置45個取置槽，內槽中分雙區C-MOS格，這便可存放90種不同的散料元件。

捲帶料架: 本機可同時安裝16組8mm料架。

(捲帶料架為選購配件分三種) : 8mm、12mm、16mm

PCB支撐架: 用一套L型軌道及支撐柱作為PC板的治具。

SMT-402



- SMT-402 sucks SMT components to dispense (spot glue) and place on PCB.
- Operation with step pad switch to spot glue SMT components rapidly, Easy-change pick & place nozzle
- 360° rotating head
- Fast changeovers
- Handles odd-shaped boards
- Parts carousel holds 45 loose parts in
- Built-in feeder base holds up to 12 8mm and/or 12mm tape feeders
- Tape strip feeder available for three 8mm, one 12mm, and 16mm tape feeders

錫膏攪拌機

High - Speed Cream Solder Mixer

電壓 Power: AC 110 / 220 V AC 50 / 60HZ

運轉速度 RPM of Spindle: 400 RPM

攪拌時間 Mix Time: 0.1~ 9.5Minute

重量 Net Weight: 45 KGS

機器尺寸 Dimension: 390 × 390 × 385mm

- 標準製程所必須的配備，讓錫膏均勻攪拌。
- 同時擺放2瓶攪拌，完成時用燈光影音通知。
- LED面板顯示及微電腦控制，有時間記憶功能。
- 與空氣隔離的條件下，準確完成錫膏攪拌。
- 萬用放置架，適合任何廠牌包裝之錫膏。
- 觸摸式按鍵，攪拌完成自動停車，操作簡易。
- 採電子式計時器，0.1~ 9.5分鐘可自由設定。
- The equipments of the standard production process
- Solder Mixer uniforms and mixes 2 bottles (500g) at same time
- Light and image inform that the process is finished.
- LED display and micro computer control have timer.
- Under vacuum condition, Solder Mixer operates accurately.
- Universal type magazine is available for any brand of solder package.
- Touch button to start, automatically stop when Solder Mixer process is finished.
- Control by electronic counter. Set up from 0.1 to 9.5 minutes.
- Easy operation.



RAM-60

高速離心脫泡機

High-speed Centrifuge Machine

電壓 Power: AC 110 /220 V AC 50 / 60HZ

運轉速度 RPM of Spindle: 3000 RPM

攪拌時間 Mix Time: 0.1~ 9.5Minute

重量 Net Weight: 55 KGS

機器尺寸 Dimension: 415 × 455 × 350mm

- 本機適用SMT各廠牌點膠管，脫泡處理。
- 同時可適用處理142 × 26mm 4支。
- 容易進行各種注入膠管脫泡處理。
- 有安全停車裝置，當上蓋開啟時會自動停止運轉。
- 採電子式計時，0.1~ 9.5分鐘可自由設定。
- LED數字顯示，異常或完成會用影音通知。
- 結構穩固影音通知操作簡易又安全
- RAM-62 removes bubble inside of the tube and glue syringe by running centrifugally.
- Centrifuge Machine is available for most brands of SMT spot glue syringe.
- It accepts 4 pcs of tube with spec.142 x 26mm at same time.
- Safety stop function activates when top cover is opened.
- Computer controls Timer and sets up within 0.1 to 9.5 minutes.
- Number is displayed by LED. Sound or image alerts when the machine operation finished or abnormally. Mechanism is durable and operation is easy and safety.



RAM-62

XD-1000 微電腦桌上型裁斷機

Programmable Desk-top Strip Cutter

管帶切斷機的應用，在於使剪切的工作進入自動化的階段，經由滾輪進料與裁剪裝置緊密配合，將整卷產品精確裁成所需的長度，於1 ~ 99999mm 範圍內任何一長度皆可裁切，不論金屬、塑膠、紙類化纖製品均可使用。

Fully automatic cut the most of strip, tube and wire, such as small cables, flexible tube, heat-shrinkable tube, webbing, paper and other.

Rolling feeder and cutter cooperate with each other precisely, cut into any length within 99999mm accurately.

- 切刀材質為SKH-2製成，經久耐用。
- 採用微電腦系統驅動步進馬達送料。
- 長度及速度的調整經由數位面板操作。
- 內建自動計數停機功能。
- 獨立分離的切刀及送料，馬達運轉安靜。
- 適用於套管類、絕緣紙、排線、銅箔或電纜等輕薄材質加工。
- 冷熱切刀皆可。
- CE認證，熱售全世界!!
- High-quality Alloy steel SKH-2 is used for cutting blade, durable and long life.
- Micro-Processor controlled stepping motor is installed to program the operation. Fully automatic for batch, reel and individual runs.
- Programmable to cut length and speed control through the panel.
- Built-in counter with function of automatic counting and pre-stop.
- For cutting operation of various thin materials such as flexible tube, insulation paper, cables, metal films, copper wire and etc.
- With CE certificate and popular in all over the world

XD-1000



規格 (mm)	型 號 Model	XD -1000	XD -2000	XD -2000Y
最大可切寬度	Max. Cutting Width	60 mm	160 mm	170 mm
最大可切長度	Max. Cutting Length	99999 mm	99999 mm	99999 mm
最大可切厚度	Max. Cutting Thickness	13	13	13
最大 送料速度(秒)	Max. Feeding Speed	1250 mm/ sec.	1250 mm/ sec.	1250mm/sec.
馬達	Motor	25W	25W	25W
電壓	Power	100~240V AC , 50/60Hz	100~240V AC , 50/60Hz	100~240V AC , 50/60Hz
機器尺寸	Dimension (LxWxH)	280x220x270	460x290x290	460x290x290
淨 重	Net Weight	21.5 kgs	38 kgs	40 kgs
置料架	Holder	V	V	V
無料停機檢知器	Stop sensor	X	X	V



KA-950 助焊劑自動比重器

Automatic Flux Density Controller

Automatically control the flux density in wave soldering machine

採比例式全自動控制焊錫爐內助焊劑比重及液位，自動補充松香及稀釋劑。
數位式顯示比重值，可做精密按鍵式設定。

Automatically control flux density with ratio control technology,
Supply flux and thinner automatically after set-up. The accuracy is up to
 ± 0.002 . Best solution for high quality soldering flux.

比重控制範圍	Range of specific gravity	0.78 - 0.900
比重控制精度	Precision	± 0.002
溫度測量範圍	Temperature range	0 - 50 °C
使用周圍溫度	Ambient temp	0 - 40 °C
控制方式	Controlling method	時間控制 by time ratio
電壓	Power	220V, 50/60Hz
保險絲	Fuse	2A
尺寸	Dimension	370 x 300 x 130 m/m
淨重	Net Weight	10.5 Kgs



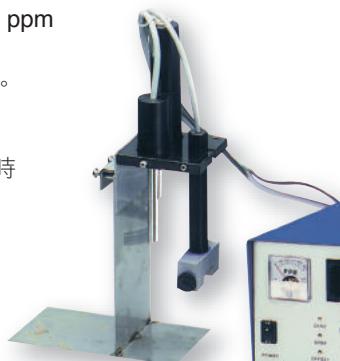
KA-950

KA-960 助焊劑自動比重器-含濁度指示器

Automatic Flux Density Controller With Turbidity Meter

Additional function to monitoring the pollution/turbidity of flux: 0~500 ppm
濁度指示器(Lift Meter) : 0 - 500 ppm

- 以比例控制科技全自動補充助焊劑或稀釋劑，精密控制助焊劑比重。
- 數位式顯示比重並可容易由按鈕調整。
- 由補充助焊劑或稀釋劑維持液面並調整設定比重值。
- 濁度監視器可顯示鋅錫週期(KA-960)，有助於了解正確更換助焊劑時間以加強產品品質。
- Automatic refill flux or thinner in a ratio-controlling method.
- Digital display for flux density and temperature, set-up by push buttons.
- Flux level is controlled automatically by certain set-up gravity of flux or thinner.
- The flux life meter indicates the purity degree of the flux (Model KA-960). It helps to understand the right time of replacing the flux to ensure product quality.



KA-960



比重器 Hydrometer

比重器規格Hydrometer measuring the Flux Density range: 0.800 ~ 0.900

發泡管 Flux Foaming Element

發泡管規格為 Ø40mm、Ø50mm.兩種，長度可依客戶需要訂做。

Flux Foaming element have two diameters: Ø40mm、Ø50mm

The length of foaming tubes is customized upon user's need.

焊錫爐

Automatic Thermal Control Soldering Pot

分離式自動控溫，控溫精確。

Automatic thermal control in separated design.

High quality with efficient performance.

型號 Model No.	瓦特數(kW) Consumption	尺寸(mm) Dimension	錫容量(Kgs) Weight
SP1015S1	0.6 x 1	100 x 150 x 70	6.6
SP1318S1	0.8 x 1	130 x 180 x 70	10.3
SP1520S1	0.9 x 1	150 x 200 x 70	13.2
SP1825S1	0.9 x 2	180 x 250 x 70	19.8
SP2030S1	1 x 2	200 x 300 x 70	26.4
SP3040S1	1.3 x 3	300 x 400 x 70	52.8
SP3045S1	1.5 x 3	300 x 450 x 70	56.4
SP3047S1	1.5 x 1	300 x 470 x 70	62
SP3050S1	1.5 x 3	300 x 500 x 70	66
SP35S6S1	1.6 x 3	350 x 550 x 70	84.7
SP4050S1	1.6 x 4	400 x 500 x 70	66
SP4060S1	1.6 x 4	400 x 600 x 70	105.6
SP4070S1	1.6 x 4	400 x 700 x 70	123.2



KA-40

發泡管 Flux Foaming Element

