

# 電組成型加工機

## RF-101-M 系列 Series

### Axial Lead Former/Cutter

## 目錄

### Index

內容	Topic	頁 Page
RF-101-M 家族成員	RF-101-M Family	1
成型樣本	Examples of Forming	1
規格	Specification	1
RF-101-M 系列零件表	RF-101-M Series Part List	2
RF-101-MA 系列 簡圖	RF-101-MA Brief Sketch	3
散裝零件 機械安裝及調整	Machine Setting Up an adjustment - Loose Packed	4-5
帶裝零件 機械安裝及調整	Machine Setting Up an adjustment - Taped Packed	6
切腳成型機構圖	Figure - Cutting/Forming Construction	7
切腳機構圖	Figure - Cutting construction	8
零件成型機構 - 工作流程	Forming Operation	9
零件成型機構 - 成形尺寸調整	Forming Size Adjustment	9
零件成型模具更換程序	Forming Mold Exchange Procedure	9
零件成型動作示意圖	Demonstration for Snap-Out Operation	10
零件切腳成型結構圖	Figure - Cutting /Forming construction	11
零件成型動作示意圖	Demonstration for Snap-in Operation	12
零件成型動作結構圖	Figure - Forming construction	13
動力傳送結構圖	Figure - Power Transmission	14
進料漏斗與排料下料片之調整	Adjustment for Hopper & Feeding Arrangement Sheet	15
排料下料片與成型盤之調整	Adjustment for Feeding adjusting Sheet & Forming Carry Wheel	16
成型盤使用說明	Instruction for Forming Carry Wheel	17
保養及注意事項	Maintenance and Hints	18
接線圖	Hook-Up Diagram	19



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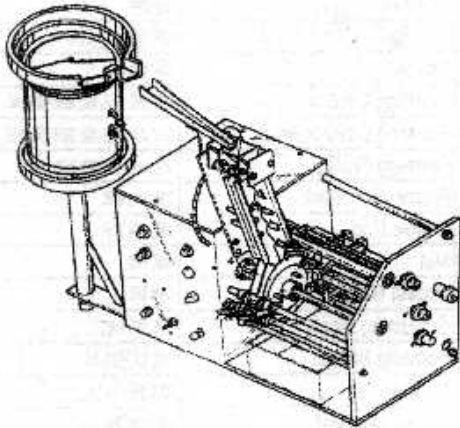
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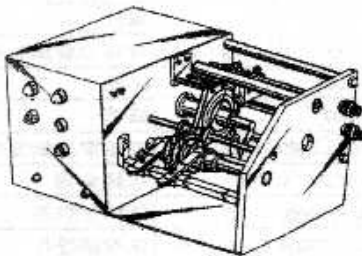
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在 RF-101-M 系列家族成員中，主要由三種型號所組成。

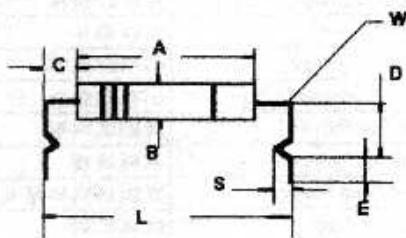
1. RF-101-M  
合併型可處理散裝或帶裝零件。
2. RF-101-MA  
只處理散裝零件。
3. RF-101-MB  
只處理帶式零件。



RF-101-M

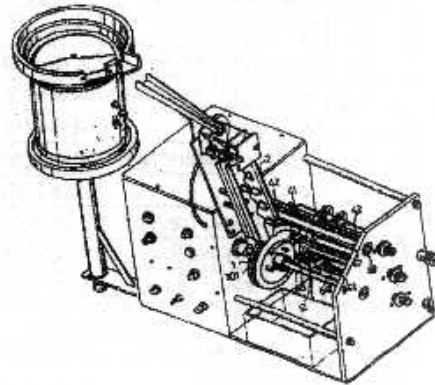


RF-101-MB



The Model RF-101-M family  
Consists of 3 major models

1. RF-101-M  
A combination Model for Both Loose and Taped components
2. RF-101-MA  
For Loose packed components only
3. RF-101-MB  
For Taped components only



RF-101-MA



Examples of Forming

成形樣本

Specification 規格

A	Length, Body	本體長度	3.8 - 20mm
B	Dia, Body	本體大小	2.3 - 8 Dia.
C	Width, Shoulder	肩距	1.2 (Min)
D	Height	零件高	6.0 (Min)
E	Lead Height	腳高	3.0 (Min)
S	Snap in	支撐點	2or3
L	Pitch	兩腳距	A+C
W	Wire Dia.	線距	0.4 - 1.3
	Working Capacity	加工能量	110Pcs/Minute



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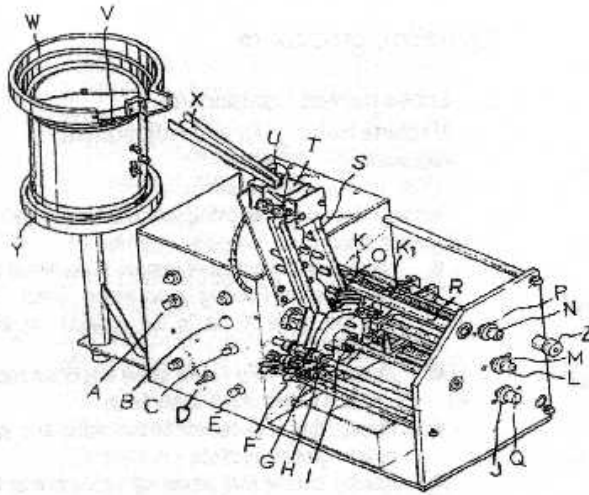
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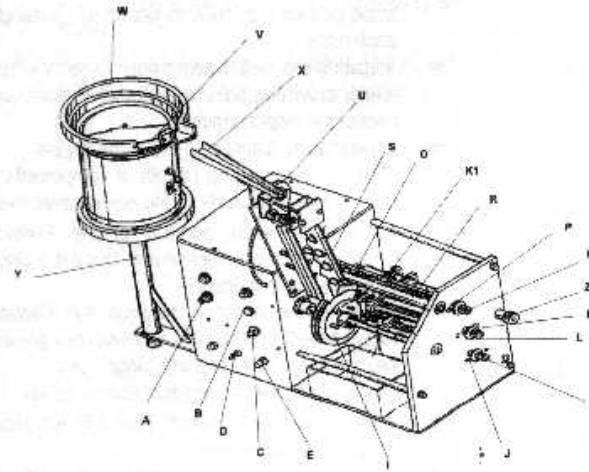
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電阻成型機 RF-101-M系列 零件表  
Axial Lead Former/Cutter RF-101-M Series Part List

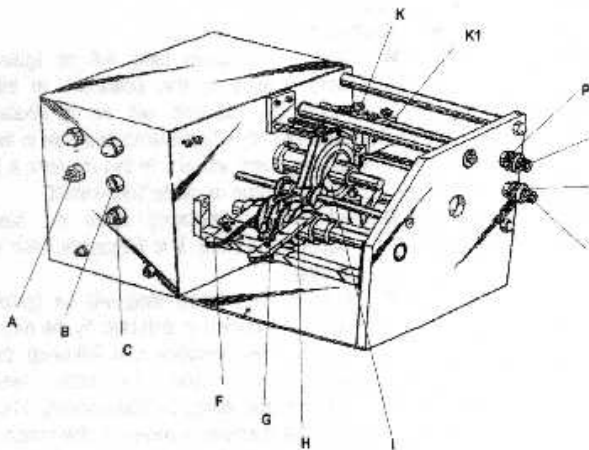
Part No.	Part Name	零件名稱	Part No.	Part Name	零件名稱
A	Power Switch	電源開關	K3	Screw	螺絲
B	Start Switch	啓動開關	K4	Resistor	電阻
B1	Motor	馬達	K5	Cutting Blade,Upper	上切刀片
B2	Gear Box	減速箱	K6	Cutting Blade,Lower	下切刀片
B3	Motor Stand	馬達座	K7	Washer	墊片
B4	Gear	齒輪	K8	Spring	彈簧
B6	Eccentric Wheel,Big	大偏心輪	K9	Screw	螺絲
B7	Gear,PowerTransmission	傳動齒輪	L	Forming Control Knob, L	左成型座調整桿
C	Mode Switch	運轉模式開關	M	Forming Control Knob, R	右成型座調整桿
D	Auxiliary Vibrating Switch	輔助震動開關	M0	Forming Block,L	左成型模塊
E	Pause	暫停開關	M1	Frame Rod,Back	後框桿
F	Feeding Rail, Taped	帶式入料軌道	M2	Frame Rod	邊框桿
F1	Screw,Feeding Rail	軌道螺絲	M3	Nut	螺帽
G	Drive Pinion,Feeding	帶式入料齒輪	M4	Sliding Rod	滑桿
G0	Shaft	軸心	M5	Smashing Block	撞擊塊
G1	Cutting Wheel,Tape	切帶齒輪	M6	Forming Blade	成型模片
G5.R2	Shaft,Divider	分割器軸	M7	Spring	彈簧
G6.R3	Divider	分割器	M8	Smashing Tool	成型模心
G6.R4	Wheel,Divider	分割齒輪	M9	Fixed Screw	固定螺絲
G7.R1	Cutting Wheel	切線齒輪	N	Cutting Block Adjusting Knob,L	左切刀座調整桿
G8	Dividing Wheel,Tape	帶式分割齒輪	N1	Adjustment Screw Ros	調整螺桿
G9.R5	Wheel,Big	大齒輪	O	Micro Switch	微動開關
H	Cutting Wheel	切刀輪	O1	Contact Wire	鋼線
H1	Shaft,Cutting Wheel	切刀軸	P	Cutting Block Adjusting Knob,R	右切刀座調整桿
I	Carry Wheel,Forming	成形盤	P2	Round Rod	圓桿
I7	Old cup	油杯	P3	Round Rod	圓桿
J	Smashing Control Knob,L	右撞擊座調整桿	Q	Smashing Control Knob,R	左撞擊座調整桿
J0	Forming Block,R	右成型模塊	R	Cutting eccentric Rod.	切線曲桿
J1	Smashing Rod	撞擊連桿	S	Feeding Arrange sheet	排料下料片
J2	Screw,Smashing	撞擊螺絲	S1	Feeding Arrange sheet,L&R	左右調整片
J3	Screw,Shaft	軸心螺絲	S2	Feeding Arrange sheet,Fixed	固定片
J4	Extruded Mode	凸型模	S3	Feeding Arrange sheet,All Dir	左右前後調整片
J5	Bearing,Smashing	撞擊培林	S4	Feeding Arrange sheet,Back &	前後調整片
J6	Pinion,Smashing	撞擊齒輪	T	Hopper	入料漏斗
J7	Spring	彈簧	U	Auxiliary Vibrator	輔助震動器
J8	Transmission Gear	傳動齒輪	V	Outlet Adjusting Sheet	出料調整片
J9	Fixed Screw	固定螺絲	W	Bowl Feeder	震動送料器
K	Blade Block,L	左切腳刀座	X	Feeding Chute	入料滑槽
K1	Blade Block,R	右切腳刀座	Y	Stand,Bowl Feeder	震動送料器置架
K2	Nut	防鬆螺母	Z	Testing Wheel	試車轉輪



**RF-101-M**  
散帶合併型  
For both Taped and Loose  
packed Components



**RF-101-MA**  
適用於散裝零件  
For Loose packed Components



**RF-101-MB**  
適用於帶裝零件  
For Taped packed Components

操作說明

1. 散裝零件- 機械安裝及調整

適用機種 RF-101-M  
RF-101-MA

請依下列程序安裝及調整您的機械，

- 將下料漏斗(T)對準排列下片(S)的中央及入料滑槽(X)對準入料漏斗(T)。
- 帶裝零件支架固定於機台左邊板上的兩個螺絲孔上。
- 震動送料器(W)放於置架上並將出口對準入料滑槽。
- 再將加工材料倒入震動送料器(W)內，一次約 600 件不須過多，然後依加工狀況漸次加入，可避免零件互相拌纏。
- 前後調整出料調整片(V)，以控制過於彎曲的零件進入，同時調整進料的多寡。
- 調整漏斗入料片(T1)(T2)距離，使其距離比加工零件長度長約 0.5 - 1.0 mm 且零件本身必需對準排料下料片 (S)四片的中央。請注意此處是入料最容易發生阻礙之處。
- 調整排料下料片(S)間距，排料下料片由兩大片兩小片組成，先鬆下兩固定螺絲，然後調整中間距使其距離比本體長度長約 0.5 mm 左右。調整完後注意要鎖緊螺絲。
- 轉動電源開關於 ON 的位置，此時上部紅燈即亮表示電源已進入。
- 按下輔助震動器開關(D) 啟動輔助震動器(U)，如聲音過大請調整入料漏斗上的兩組螺絲。如入料情形良好可參酌不予使用。
- 按鈕說明- 運轉模式開關共有三段
  - 自動，當轉向自動(AUTO)綠燈亮時即表示在自動操作模式。當成型盤(I)上無材料時，自動與寸動的功能相同即按一下啟動開關即動一下。在此模式下當材料彎曲或入料不順時會自動關機。
  - 寸動，在寸動模式下按一下啟動開關即動一下通常使用於試車時。
  - 運轉，在此模式下加工零件經過微動開關時綠燈即亮，無材料時綠燈即熄。可依此看燈操作機械。但運轉位置只讓機械運轉不停。

Operation procedure

1. Loose packed Components - Machine Setting Up and Adjustment

Effective Model RF-101-M  
RF-101-MA

Please setting up and adjusting your machine as the following steps

- Make sure the out let of Hopper (T) is aimed at the center of Feeding arrangement Sheer S and the chute X is in the position to the HopperT.
- Assemble the Reel Frame to the wall of left hand side and fixed in the 2 screw holes
- Placing the bowl feeder in the stand and the outlet aim at the chute.
- Placing around 600 pieces of components to the bowl feeder. It can be increased step by by according to the situation of operation. Please avoid placing too much to get rid of entangle each other
- Adjusting the Outlet adjustment Sheet V in the feeder to screen the uneven(bended) parts and control the output quantities
- Adjusting the distance T1-T2 in the hopper  
The Distance = King Length of components + 0.5 - 1.0 mm. The body of the components must be in the center position of the Feeding arrangement sheet. Please note that it is a place that tight-up most often.
- Adjusting the distance between the Feeding Arrangement sheet S. The S consist of 4 pieces, two small and other two with bigger size.  
The gap of sheer = Length of Body + 0.5 mm
- Turn on the Power switch, Red light will show the power is connected
- Turn on the Auxiliary Vibrating Switch. Please adjusting the screws in the hopper if it is too louder. It can be turned off according to the feeding condition.
- Illustration - Mode Switch
  - Auto- The green lamp will be lighted when turning to this position. In this mode the machine will be terminated automatically when it is no materials in the feeding carry wheel I. In this moment, it is same function as mode "intermittent"
  - Intermittent- Operating when the start Button is pushed. It is frequently used in testing.
  - Manual- The green lamp will be lighted when component is detected by the micro switch. The operation can follow-up the green lamp condition. This mode is keep the machine going on continuously. Must stop the machine by pause or stop button.



- 震動送料器上調速器轉至最低速然後啓動震動送料器(W)開關，並慢慢加速，此時零件由入料滑槽進入漏斗再進入排料下料片。累積至 2/3 時運轉模式開關轉到自動模式(AUTO)，再按起動開關(B)，成形盤(I)即開始轉動。
- 成形盤(I)開始轉動時，材料進入成形盤溝槽並啓動微動開關(O1)，此時本機即進入自動作業模式。
- 此時依據排料下料片內加工材料增加或減少調整震動送料器速度，使排料下料片內加工材料保持 1/2 到 2/3 的位置。請注意加工材料太滿漏斗會阻塞，低至成形盤無料時容易卡料造成不順。
- 如入料漏斗及排料下料片內加工材料阻塞過多，請檢查是否由於材料過分彎曲或排料下料片間隙不適當(下部分會更詳盡解說)。
- 如排料下料片內材料將用盡時，可按下暫停開關，等材料補足至 2/3 位址再重新啓動。

- Turn the speed regulator on bowl feeder to the lowest position, then turn on the power. Accelerate the speed by the regulator increasingly.
- The component will slide down from the chute, Hopper to the Feeding arrangement Sheet. Turn on auto mode and push "Start" button when the components is over 2/3 of the feeding arrangement sheet.
- The automatic mode is started when the components are in the Forming carry wheel and activated the micro Switch.
- Adjusting the Feeding Speed of Bowl feeder . The material position of 1/2 to 2/3 in the Feeding arrangement sheet is the guide line of the adjustment.
- When the hopper is tight-up by the components. It may caused by the uneven raw material condition or the improper gap in feeding arrangement Sheet( Further information will be introduced in next Chapter)
- When the components are going to use up in the feeding arrangement sheet, pause the operation by pushing the pause Switch. Restart the operation till 2/3 of the feeding arrangement sheet is occupied.



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## 操作說明

### 2. 帶裝零件- 機械安裝及調整

適用機種 RF-101-M  
RF-101-MB

請依下列程序安裝及調整您的機械。

- 將帶裝零件經由入料軌道 F 進入齒輪 G, G1, G1 負責將紙帶切斷, G 將加工零件送入成型盤 I。
- G 齒輪緊靠成型盤 I, 帶裝零件與入料軌道不可太緊同時零件本體要對準中央。
- 依據零件本體大小將入料齒輪 G 往右移出, 齒輪 G1 與切刀輪 H 會移動。以元件本體長度核對成型盤溝槽 I, 放鬆螺絲 I2 然後調整本體長度等於溝槽寬度後把螺絲鎖緊。再把入料齒輪 G 推回並靠住成型盤。
- 注意: 如成型盤的距離調整過之後, 排料下料片也要跟著調整。否則入料將不順暢。

### 3. 零件切腳機構- 作業流程說明

適用機種 RF-101-M  
RF-101-MA  
RF-101-MB

- 當加工零件經由成型盤送達微動開關時, 微動開關鋼線浮起, 材料即一支接一支進入切腳及成形機構。
- 當微動開關鋼線落下時即無料可處理時, 馬達即停止轉動。
- 加工零件到達切刀座 K 及切刀時, 零件腳將被切成設定長度。腳長可由左右刀座調整桿 N, P 調整成所需的長度。

## Operation procedure

### 2. Taped packed Components - Machine Setting Up and Adjustment

Effective Model RF-101-M  
RF-101-MB

Please setting up and adjusting your machine as the following steps

- Engaging the Taped component to the teeth of wheel G and G1. The function of G1 is to cut the tape and the G transmit the components to the Forming carry Wheel.
- The G wheel is close to the forming carry wheel. Please keep the components not too close to the plastic trials. Make sure the body is in the center.
- Moving the G wheel toward right side according to the size of body. Check the distance of Forming carry wheel by the length of component's body. Return the G wheel to original position and close to the forming carry wheel.
- **Caution:** The feeding arrangement sheet have to be adjusted when the distance of forming carry wheel is change.

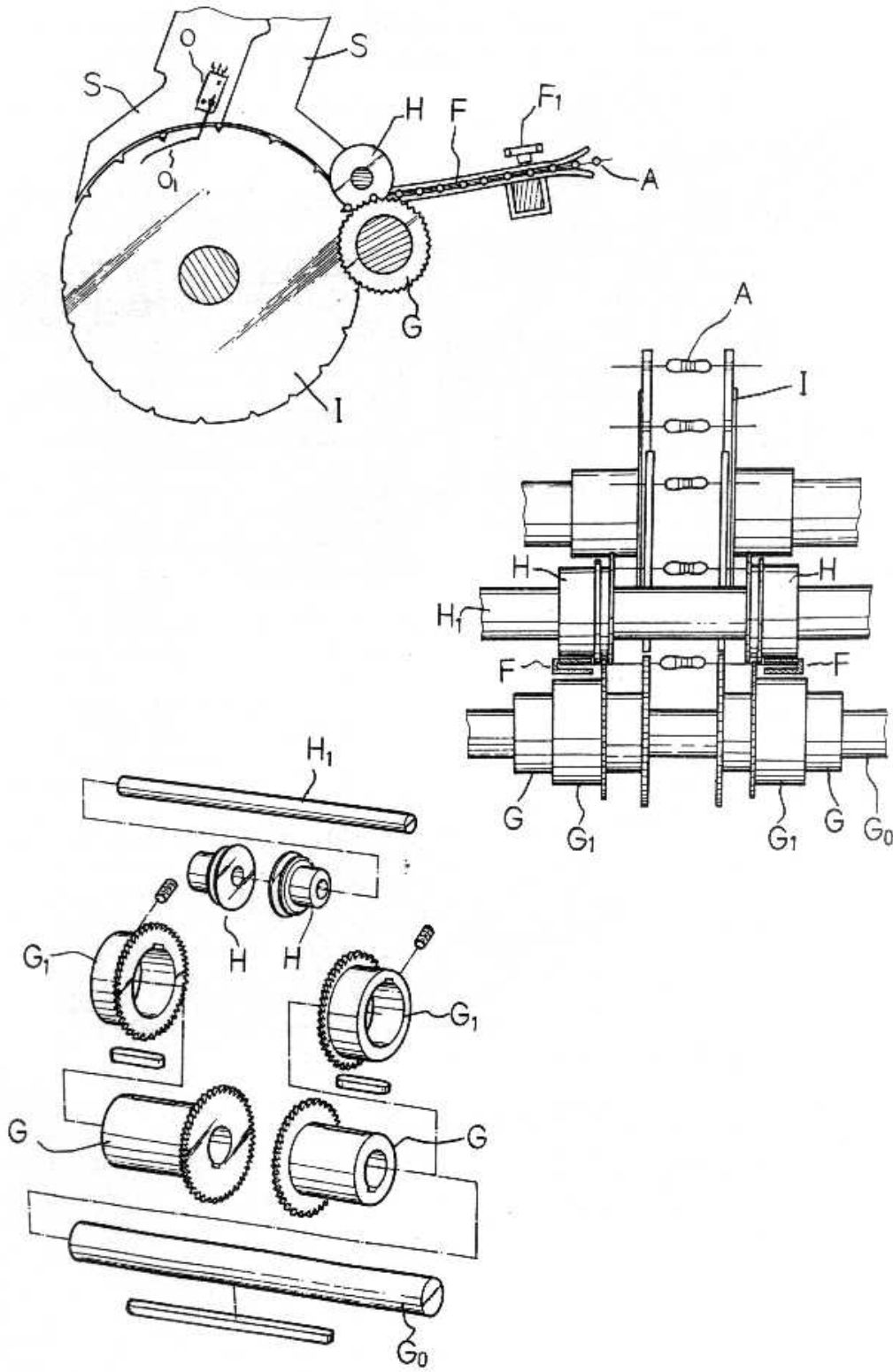
## Operation procedure

### 3. Cutting - Operation Procedure

Effective Model RF-101-M  
RF-101-MA  
RF-101-MB

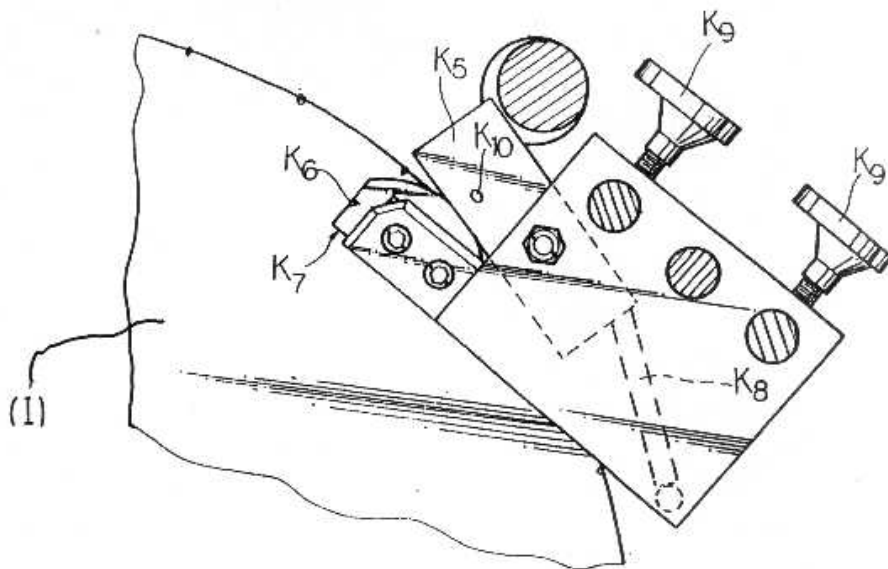
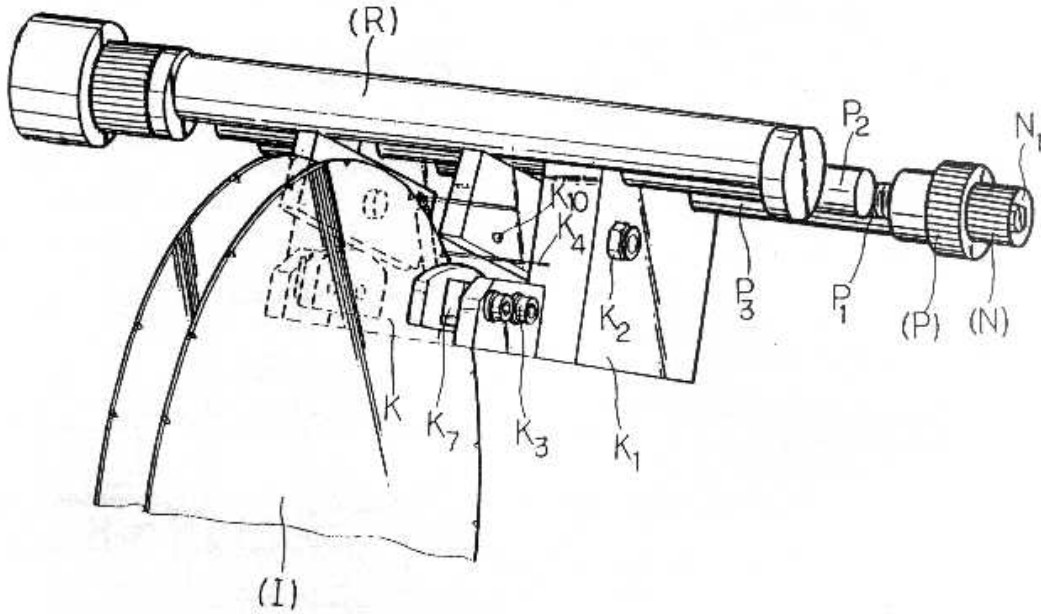
- The Micro switch will be activated by the material in the forming carry wheel. Then the components will goes into the cutting and forming device one by one.
- The motor will be terminated as the feeding carry wheel is out of components that is controled by the microswitch in automatic mode.
- The lead of components will be cut to the expected size by the cutting blade in cutting Block. It is adjusted by the cutting adjusting knob N, P.







- |            |             |           |
|------------|-------------|-----------|
| P 右切刀調整桿   | K - 左切腳刀座   | K 4 - 電阻  |
| P 1 調整螺桿   | K 1 - 右切腳刀座 | K 5 - 上切刀 |
| P 2、P 3 圓桿 | K 1 - 右切腳刀座 | K 6 - 下切刀 |
| N 左切刀調整桿   | K 2 - 防鬆螺帽  | K 7 - 墊片  |
| N 1 調整螺桿   | K 3 - 螺絲    | K 8 - 彈簧  |
|            |             | K 9 - 螺絲  |



## 操作說明

### 4. 零件成型機構- 工作流程

- 加工零件到達成形模座 M0, 及 J0 進行不同形狀的成形。
- 零件送達成形定點後, 滑桿 M4 將線腳拉成 U 型, 撞擊連桿 J1 及撞擊塊 M5 將線腳打出不同的形狀。

### 5. 零件成型機構- 成型尺寸調整

注意：試車時請用試車轉輪, 用手動方式處理確定後才啟動電源。

- 先將左右撞擊塊 J0 調開, 放鬆固定螺絲 J9, 由左右導螺桿 Q, J 往兩側移開。
  - 以成形盤 I 為中心點, 放鬆螺絲 M9, 由左右導螺桿 L, M 調整成形尺寸並用其上的標尺來核對尺寸。
  - 將左右撞擊塊 JO 調入, 讓撞擊培林 J5 頂住凸型模 J4, 再轉動導螺桿 J 或 Q, 由螺絲 J2 推動撞擊塊 M5, 再退回約一線徑距離並將螺絲鎖好調好左右撞擊座 JO。
  - 放入一個加工零件, 用手轉動試車轉輪 Z 並完成整個行程, 檢查成型後之尺寸角度是否正確, 如不滿意依前述之程序調整至正確為止。
  - 轉換 KINKING 高度——取下 M3 螺絲, 將 M1 後框桿凸面向內, KINK 的高度也隨之改變。
  - 標準型成型模片 M6 如有耗損, 可取下螺絲並前後對調模片, 可雙面使用。但是訂製型無此功能。
- ### 6. 零件成型模具更換程序
- 先將左導螺桿 L 整支抽出然後把右導螺桿旋扭 M 拆下, 鬆開螺絲 M9, 圓桿 P2 以螺絲起子轉出即可將整支抽出, 再將後框桿 M1 拆下, 整組模具即可全部取出。
  - 可更換不同的撞擊塊 M5 及成型模片 M6 來成型不同的樣式。但是模具 M5, M6 更換之後需要校對其誤差, 如太短須以墊片加長連框桿 M2 如太短則須減短其長度。

## Operation procedure

### 4. Forming Operation

- The forming Device consists of Forming Block, Left (M0) and Forming Block, Right (J0). The 2 blocks are working and adjusting independently.
- The components will be forming in the forming Block (M0), (J0) to expected shapes when it arrives this area. The sliding Rod M4 forming the Lead wire to U shape first then smashing by the smashing rod (J1), Smashing Block (M5) to designed specification.

### 5. Forming Size - Adjustment

Caution: Please Testing the machine by manual through the Testing wheel. Operating by electric power as settled

- Putting the Smashing Rod R&L aside first then release the fixed screw J9 and moving the Screw Guide Rod Q, J to both side.
- Release the screw M9, The Forming Carry Wheel as Center, Adjusting the forming size according to the ruler attached.
- Return the Smashing Rod R&L (JO) to original position, shored the protrusion mold J4 by the smashing bearing J5, turning forward the Screw guide rod J or Q and pushing the Smashing block M5 by the Screw J2. After finishing the above procedure, Turning backward around one wire Dia. Tighten screw released.
- Placing one component in the Feeding carry wheel then turning forward the testing wheel until whole cycle complete. Checking the finished component, adjusting again as said procedure, if unsatisfaction.
- Exchange Height of Kink —— Remove screw M3, Reverse the back frame rod and let the extrusion side toward inner position. The height of kink will be changed accordingly.
- If Word-out is found on the standard forming mold, release the screws and exchange the position. The mold can be used both surfaces except it is customized model.

### 6. Forming Mold Exchange procedure

- Pulling out the whole Left guide rod L first, then release the Knob of right guide rod, un-tighten the screw M9 and the Rod P2 can be dismantled. The whole set of Forming mold can be dismantled after the back frame Rod M1 being removed.
- The smashing block and forming tool M6 can be exchanged to form various styles. Bear in mind that it has to make calibration after the tooling is changed. If insufficient length is found, please enlength the back frame Rod M1 by additional washer or cutting off the length vicversa.



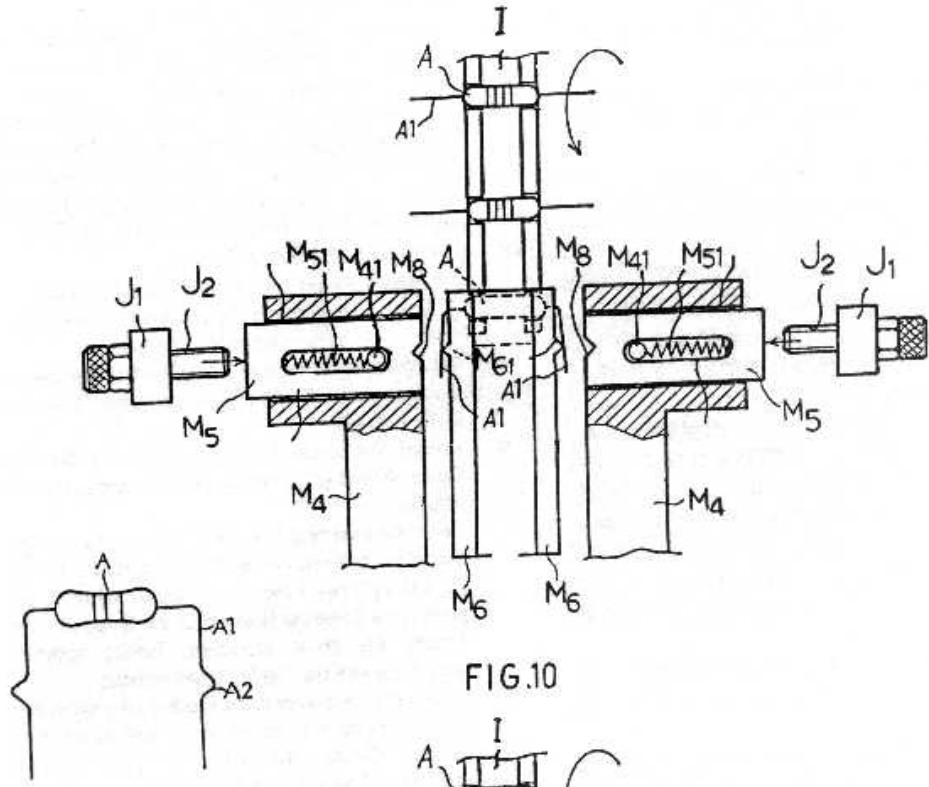


FIG.10

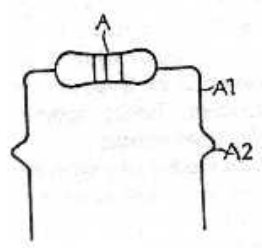


FIG.11

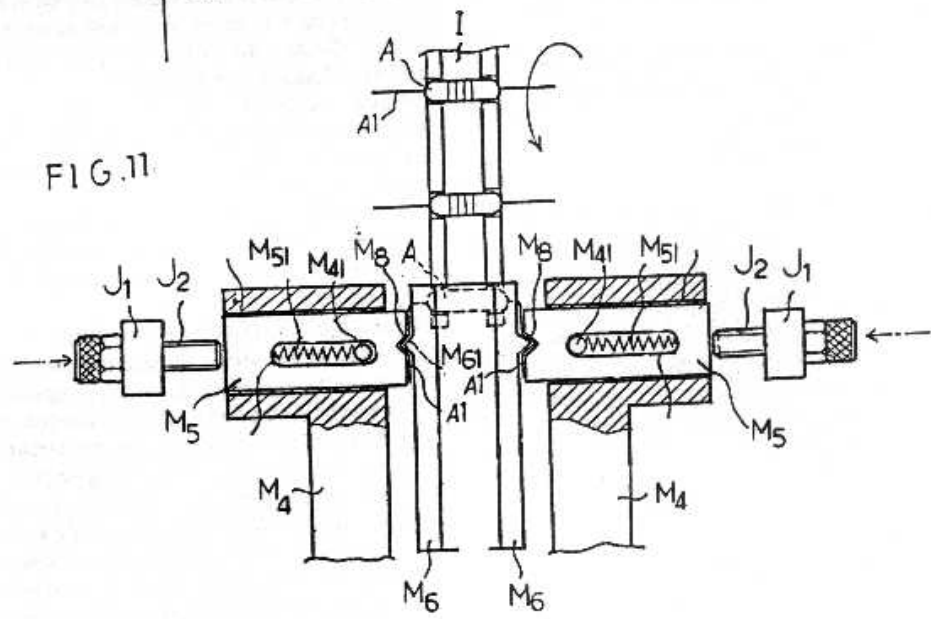
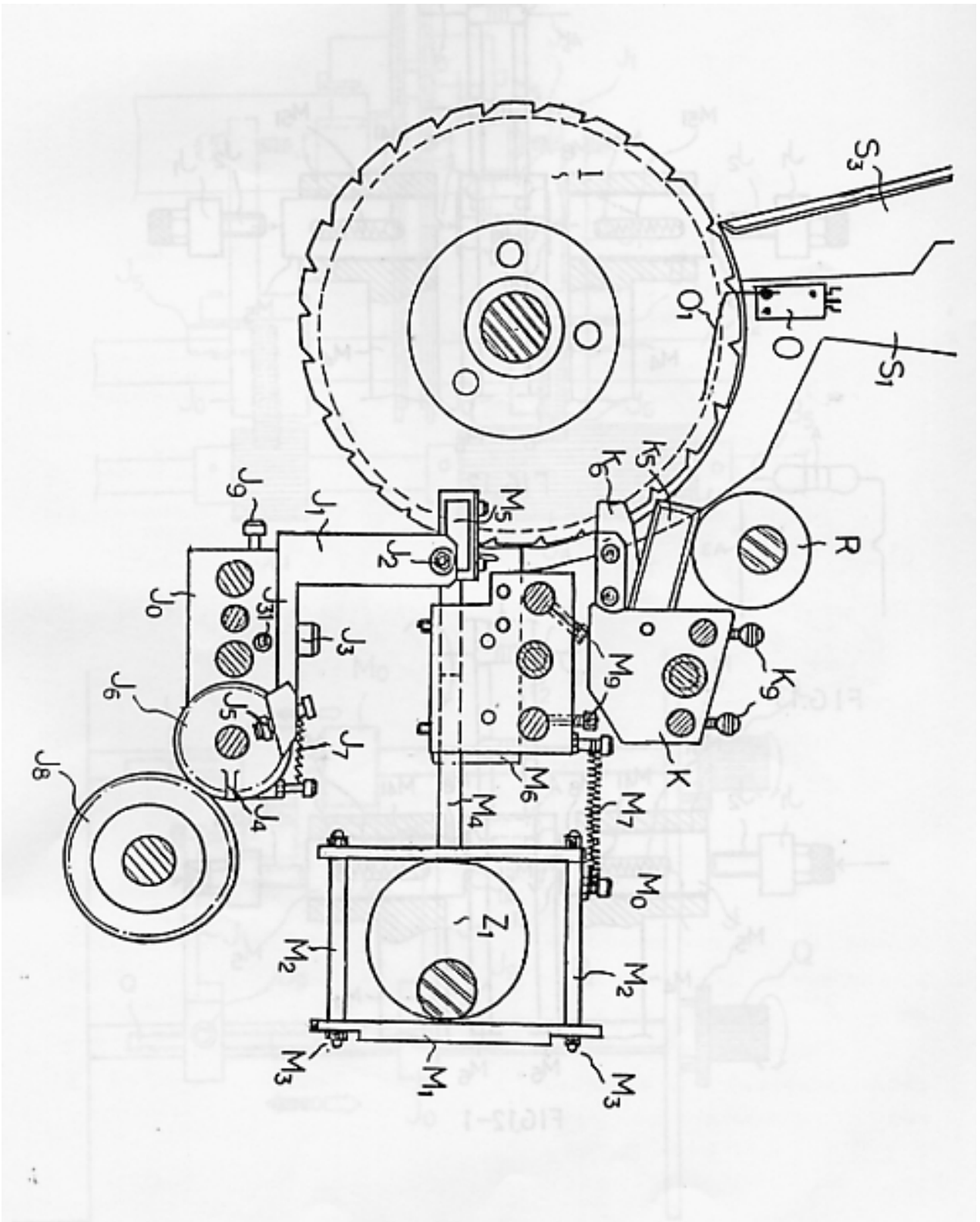


FIG.10-1



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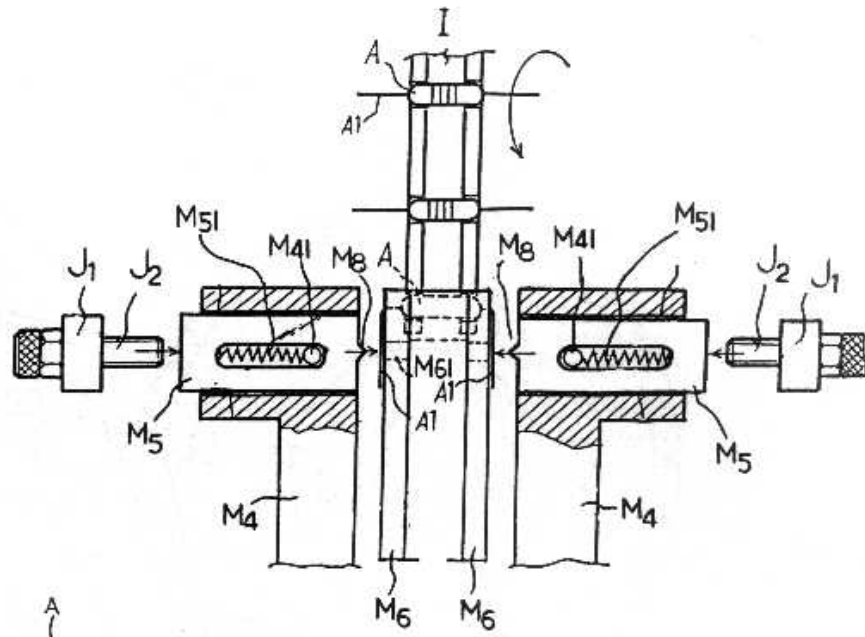


FIG.12

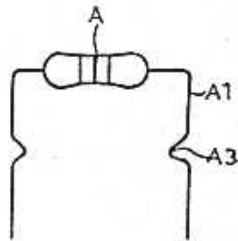


FIG.13

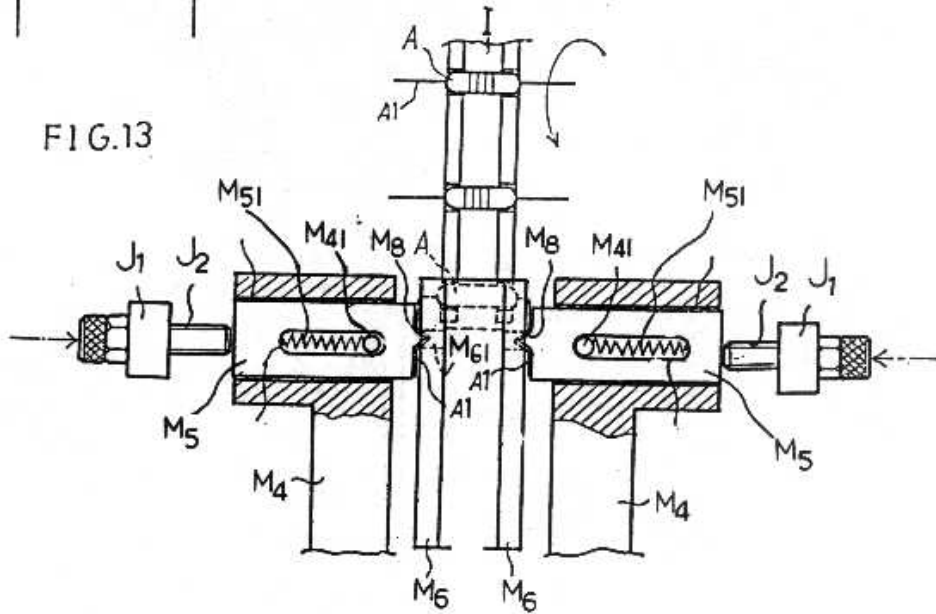
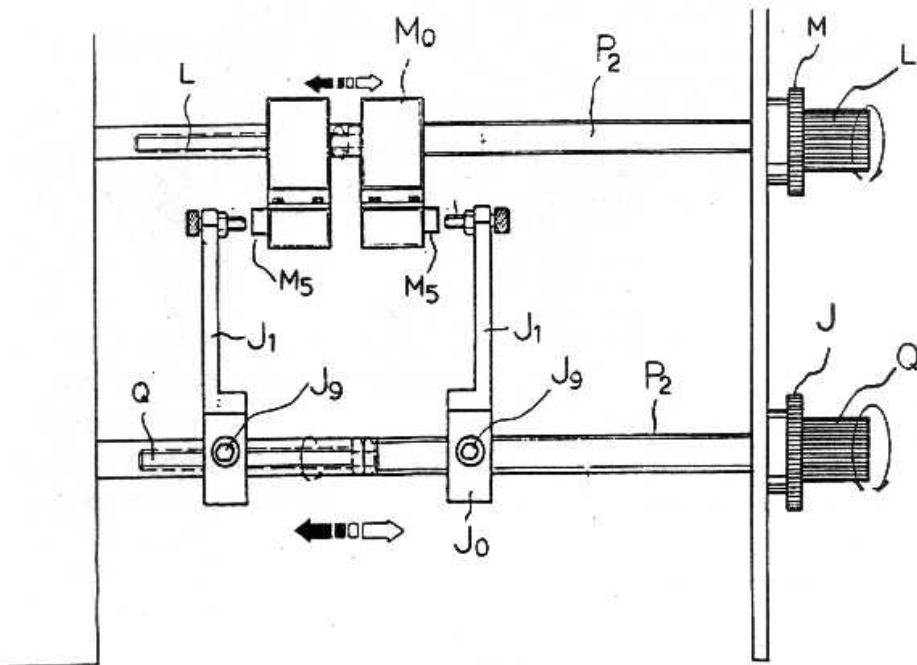
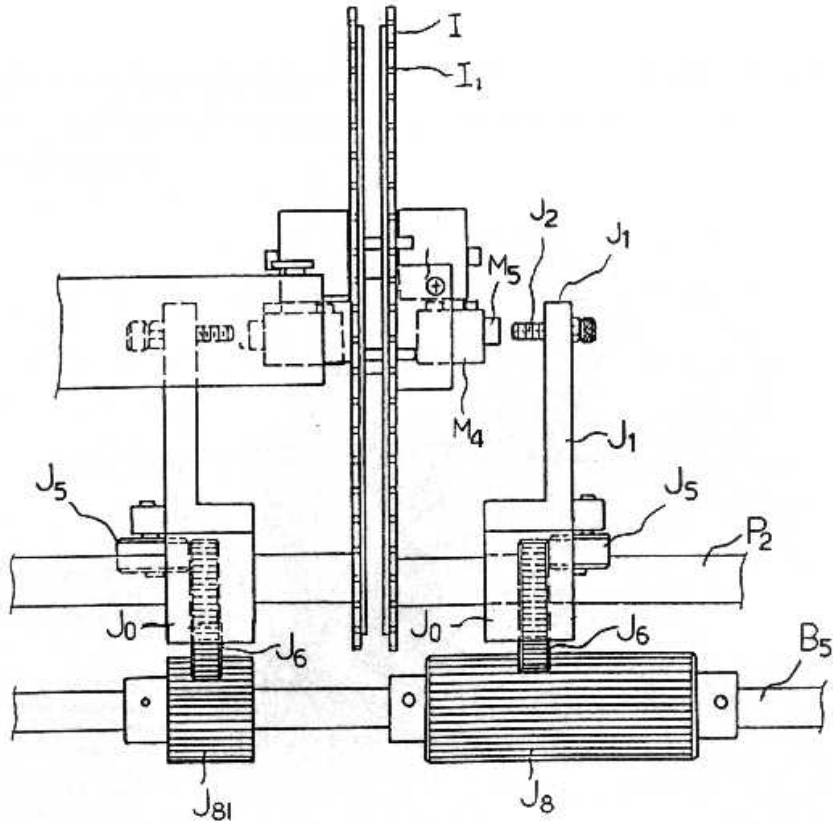
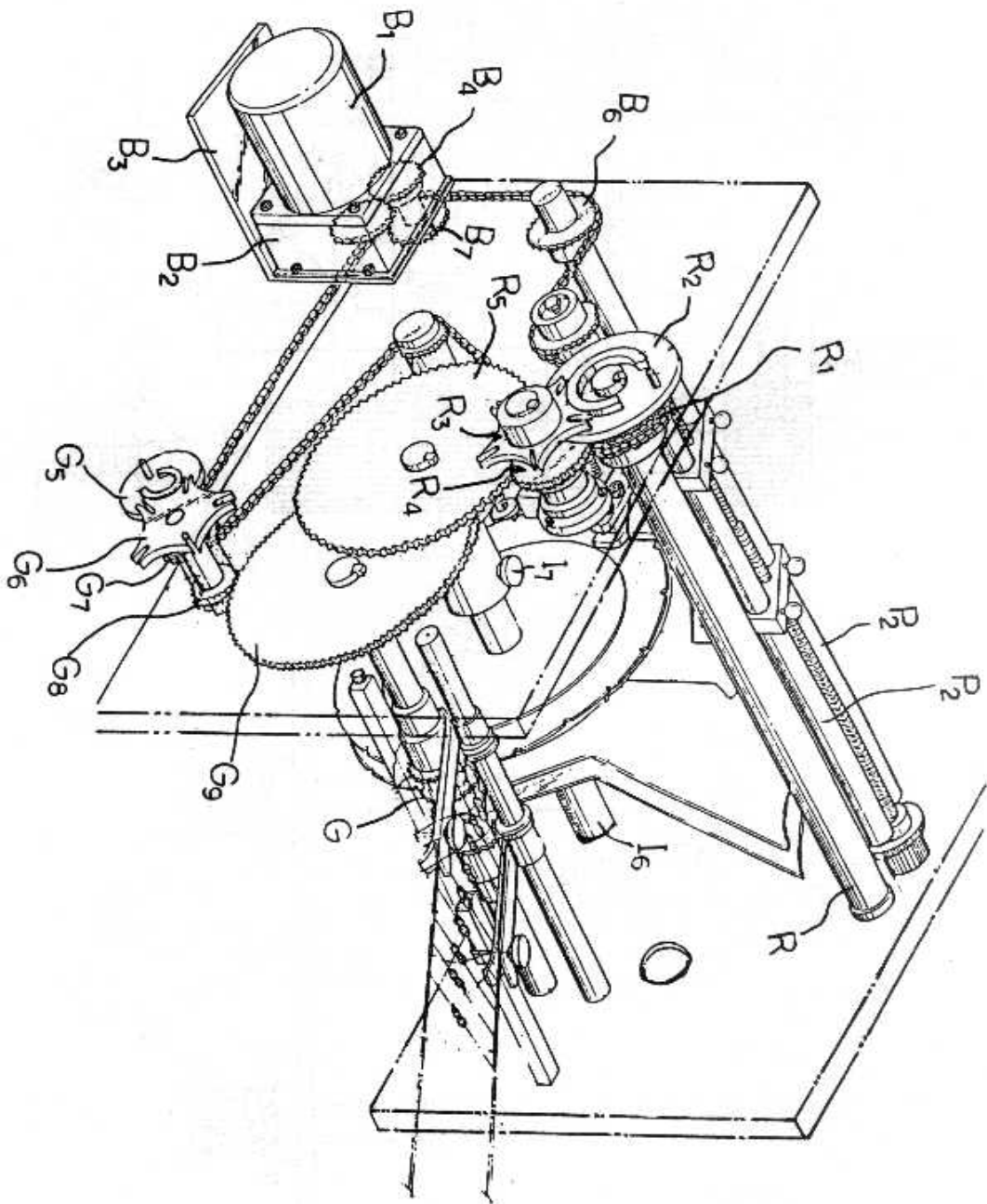


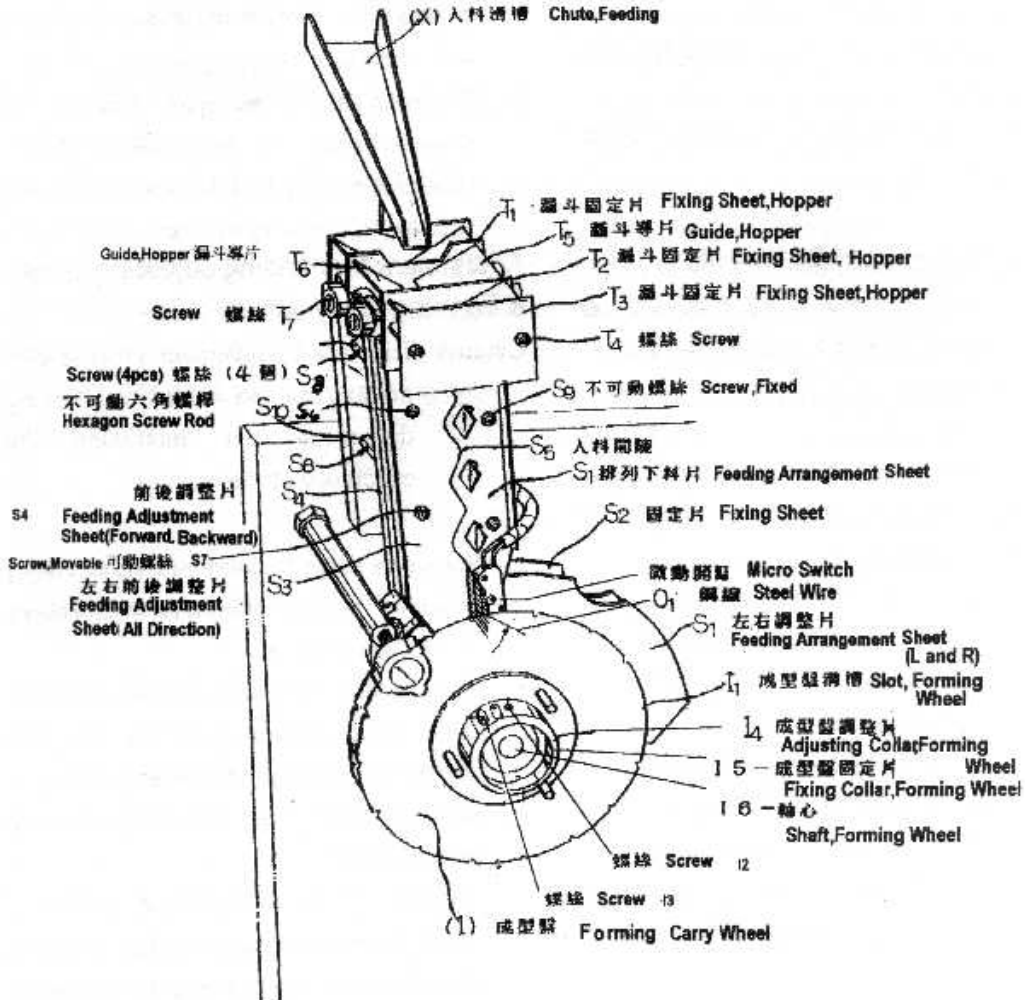
FIG.12-1





RF-101-M, MA Feeding Solution  
Adjustment for Hopper & Feeding  
Arrangement Sheet

RF-101-M, MA 進料解決方案  
進料漏斗與排列下料片之調整



1. 待加工之零件經入料滑槽(X)以45度進入入料漏斗(T)，先撞擊 T5, T2, T6 三片夾角處然後快速進入排列下料片(S)。
2. T1 及 T2 隨電阻的總長調整，其間距須大於電阻總長 0.5 mm-1.0 mm 最適當。

1. The Components sliding down in 45 through the feeding Chute and crashing the intersection area of T5,T2,T6. Then entering into the Hopper and goes into the Feeding arrangement Sheet swiffly.
2. The Distance of T1 & T2 have to be adjusted according to the king length of the components. The Distance = King length + 0.5 mm~ 1.0 mm.



3. 電阻本體太大而無法進入入料漏斗時，可將 T4 螺絲拆下並抽出漏斗導片 T5，磨去大於電阻本體 1 mm 之缺口再將漏斗導片 T5 插回原位。如果須處理正常之零件時，可將 T5 抽出並換邊使用。讓缺口向上即恢復正常。
4. 漏斗導片 T5 下方有一彎行片，必需接觸於 S1, S2 圓弧位置。
5. 材料進入排列下料片(S)時，電阻本體一定要對準於四片的中心。

### 排料下料片與成形盤之調整

請注意：以下排列下料片之調整與成形後之腳距無關，但可使零件整齊排列增進加工效率。

1. 調整左右前後調整片(S3)時，須先放鬆(S8)兩個螺絲，將調整左右前後調整片(S3)往外移至適當位置為止再鎖緊螺絲。
2. S2 為固定片，S1 為左右調整片，可依零件本體的大小調整 S1，S2 的距離，此距離須比本體長度稍寬但不能太寬，太寬時零件容易傾倒，不足時零件無法進入。
3. 前後調整片(S4)控制容許通過線徑的大小  
 $S4$  與  $S2$  之距離 = 線徑 + 0.5 mm  
 $S10$  共有四支六角螺桿，一邊固定於機身上，此處螺母不可動，另一邊用薄片螺母鎖定  $S4$  及  $S2$ ， $S2$  不能鬆動，而  $S4$  用於調整線徑大小之用。
4. 調整左右前後調整片(S3)時，先鬆開 S8 兩個螺絲後，把 S3 對齊左右調整片 S1 後鎖緊鬆掉的螺絲。
5. 調整 S3，S1 之間隙使與 S2, S4 之間的距離相同，調整前請先鬆開 S6, S7 螺母。

3. When the body of the component is too big to enter the hopper, Dismantle the Screw T4 and move out the Guide of the Hopper T5 then making a cut-off on the Guide. Make sure the cutting-off size is bigger than the Body 1 mm. The guide can be using up-side-down when normal components are going to process.
4. The bend sheet under the Hopper guide must be ensured to contact with the position of S1, S2.
5. Make sure the body of the components are processing on center of the 4 Feeding adjustment sheet.

### Adjustment for Feeding adjusting sheet & Forming Carry wheel

Caution: The listed adjustment procedure is nothing to do with the forming dimension but increasing the efficiency of the machine.

1. Release the screws(S8) before adjusting the Feeding adjustment sheet(S3). Adjusting the sheet by moving it out to property position.
2. The S2 is fixed. The Feeding Arrangement Sheet S1 can be adjusted according to the size of the Body which must be a little bigger than the length of Body.
3. Feeding Adjustment Sheet S4 is designed to control the Wire lead Dia.  
 $Distance S4-S2 = Dia\ of\ Wire\ Lead + 0.5\ mm$   
 Four of the Hex screw rod S10 are fixed on the main frame, the nuts here are fixed, the S4/S2 are locked by spacer, Please adjust the dimension for Wire size by S4.
4. Release the 2 screws of S8 adjusting the Feeding Adjustment Sheet. S3 Please let the sheet keep in line with the S1.
5. Adjusting the gap S1-S3 = S2-S4. Please don't forget to release the nut S6, S7 before adjustment.



## 成型盤使用說明

1. 成型盤只負責送料但是停留必需準確，成型盤與機台上每一機構均有同步之關係，如果因卡料而移位，必需立即調回原點，否則機台無法操作。
2. I3 二個螺絲負責固定於傳動主軸心，如有位移即由此螺絲調整。
3. 可依據零件本體長短鬆開 I2 螺絲調整成型盤之距離。
4. 成型盤上的成型溝有大小之分，如所需成型零件本體不適用於標準成型盤。則須另外訂購並請通知零件尺寸以利製作。
5. 成型盤不能損傷如有缺角變形之情形，會造成送料不順之情形。

## Instruction for Forming Carry wheel

1. The Forming carry wheel is responsible for carry the component precisely to next operation. It is working synchronously with every portion of the machine. If it is out of position because of jamming by the components. Please return original point immediately. Otherwise, the machine would possible brake down.
2. If the wheel is out of position, readjusting by the screw I3 which fixed on the main shaft.
3. The distance of the Forming carry can be adjusted by loosen the screw I2 according to the length of the body.
4. If the body of component is not applicable in the standard forming carry wheel. A customized wheel is necessary to solve this problem. Please tell us size and we would very pleased to serve you.
5. It is very important to prevent the Forming carry wheel from deform or damaged. It will cause improper feeding situation.



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### 保養及注意事項

1. 更換成型盤時注意勿損傷微動開關的鋼線。
2. 切斷刀座如殘留太多腳削，須清除否則會卡刀。
3. 試車轉輪只能順時鐘轉動否則有撞破撞擊培林J5之虞。
4. 傳動齒輪如有鋼削須予以清除。
5. 入料漏斗如偶而會有卡料現象，以撥桿輕輕撥動阻塞的零件會有很好的效果。
6. 每日潤滑及清潔機械。

以上說明若有不夠詳盡之處，煩請來電洽詢，本公司當以最大誠意為您服務。 謝謝!

### Maintenance and Hints

1. Prevent not to damage the Steel wire of the micro switch while exchange the forming carry wheel.
2. Removing the material chip in the position of cutting block Otherwise, the cutting tool will be jammed.
3. The testing wheel can only be turned clockwise or the smashing bearing would possible be damaged
4. Clean all chip in transmission gear.
5. If tight up condition is found In the hopper, plunking the jammed components that will much help in this condition.
6. Lubricate and clean the machine daily.

**Welcome your inquiry for the item unclear. It is our pleasure to serve you at all time. Thank you**



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