



Whole Plant
Oil Seal Production
油封整廠自動化設備



G-WAY

Whole Plant Oil Seal Production

We're able to provide customized systems as per our customers' request and shape process analysis and prototype by 3D-CAD technology. The standardized manufacturing, repeated performance testing before shipping and zero defect quality control, we proudly present our mechanical performance. Each G-WAY machine is therefore sum of our outstanding engineering capability.

我們提供各式客制化的產品，並運用3D-CAD技術做整體成型分析及動作模擬，以滿足客戶的實際需求，每一部吉瑞的機械，都將反應出我們卓越的整體工程能力。標準化的製造過程，出廠前的重複性能測試，零缺點的品管目標，塑造非凡的機械性能。



G-Way Machinery, An expert for the Automation Of the Oil Seal Production

吉瑞精機 | 油封整廠自動化設備專家

■	Oil Seal & Rubber Parts Trimming Machine- Standard 油封及橡膠件整修機 - 標準機型	■	Optional Device 選配輔助設備
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NR Series

Vacuum Type

真空式油封 / 橡膠件整修機

This machine is used for cutting the flash of the circle rubber parts and especially suitable for soft rubber parts, oil seals, packings, cups.

本機器用以切削圓形橡膠件的毛邊。特別適用於軟性橡膠件、油封、迫緊、皮碗等。

Features 特點

- Manual feed and auto trim.
- The vacuum generator will suck the oil seal through the mold during the cutting period to get the best cutting precision.
- The s flash separator and blowing plate will separate the flash from the trimmed seals to shorten the processing time.
- 手動送料自動修邊。
- 利用真空特性配合模具吸住加工物件以切割毛邊，以得到最好切割品質。
- 屑分離器及吹氣拍板將自動分離油封及屑，以減少整理時間。



• There are many cutting mode for the user to choose. To cut the inner and outer flash simultaneously.

• 多種切割模式可供選擇。內外毛邊切除一次完成。



NR-100

Technical Specifications 機器規格表

Machine Type	機型		NR-100	NR-100-R	NR-200-R
Weight	重量	kgs	280	250	300
Dimensions	尺寸	cm	95(L) × 100(W) × 190(H)	95(L) × 70(W) × 190(H)	95(L) × 75(W) × 190(H)
Cutting Range	修邊範圍	mm	O.D. 10 -100	O.D.10-100	O.D. 101 -200
Spindle Speed	主軸轉速	rpm	2800 (60Hz)	2800 (60Hz)	Adjustable
Cutting Angle	修邊角度		30° - 70°		
Cutting Speed	進刀速度		2 Stages, Adjustable		
Number of Knives	刀數		2		
Knife Blade Size	刀片尺寸	mm	3×3 or 3×1.8 or 5×1.8		
Motor	馬達		1HP	1HP	2HP
Inverter	變頻器		Nil	Nil	2HP
Flash Separator	磁屑分離器		Included	Nil	Nil
Controller	控制器		PLC		



NR-100-R



NR-100-R-CE

NRC Series

Collet Chuck Type

夾頭式油封整修機

This machine is used for cutting the flash of the metal case oil seal.
適用於鐵殼型油封的內外毛邊的切削。

Features 特點

- Manual feed and auto trim.
- The collet chuck grabs the oil seal to cut the flash.
- There are many cutting mode for the user to choose.
To cut the inner and outer flash simultaneously.
- Right cutting angle is 0° - 90°.
- 手動送料自動修邊。
- 利用彈性夾頭夾住加工物件以切割毛邊。
- 多種切割模式可供選擇，內外毛邊切除一次完成。
- 右切割角度為0° - 90°。



NRC-200

Technical Specifications 機器規格表

Machine Type	機型		NRC-200	NRC-300
Weight	重量	kg	280	350
Dimensions	尺寸	cm	80(L) × 90(W) × 190(H)	95(L) × 75(W) × 190(H)
Collet Chuck Type	夾頭型式		#25	#45
Cutting Range	修邊範圍	mm	O.D. 10 -210	O.D. 80 -300
Cutting Speed	進刀速度		2 Stages, Adjustable	
Number of Knives	刀數		2	
Knife Blade Size	刀片尺寸	mm	3×3 or 3×1.8 or 5×1.8	
Motor	馬達	HP	1HP	2HP
Inverter	變頻器		2HP	3HP
Controller	控制器		PLC	

CRT Series

Rotary Type for Rubber Parts

轉盤式橡膠件修邊機

This machine is used for cutting the flash of rubber parts such as valve steam seals, cups, UV packings, and other circle soft rubber parts.

適用以切削如汽門油封、UV破緊、皮碗等橡膠件的毛邊。

Features 特點

- Manual feed and auto trim.
- The vacuum generator will suck the rubber parts through the mold during the cutting period.
- Easy adjustment. Changing of products is fast & easy.
- Various cutting modes & cutting angle for customer selection.
- Productivity determined by machine and not the operator. In short productivity is controllable.
- 手動送料自動修邊。
- 利用真空特性配合模具吸住加工物件以切割毛邊。
- 調整簡單，更換切割的產品快速容易。
- 多種切割模式及切割方向可供選擇。
- 生產量由機器決定，而非由操作人員的工作速度決定，生產量容易控制。



CRT

Technical Specifications 機器規格表

Machine Type	機型	CRT-50-6-2	CRT-50-6-3	
Weight	重量	kg	450	500
Dimensions	尺寸	cm	120(L) × 90(W) × 170(H)	
Number of Knives	刀數		2	3
Cutting Range	修邊範圍	mm	O.D. 8-50	
Number of Workstations	工作站數		6	
Driver	驅動器		Index Table	
Spindle Speed	主軸轉速	rpm	1700 (60Hz)	
Motor	馬達		1/2HP X 2	1/2HP X 3
Controller	控制器		PLC + HMI	

RRT Series

Ring Cone Type

輪轉式油封修邊機

This machine is used for cutting the flash of the metal case oil seal.
適用以切削油封的毛邊。

Features 特點

- Auto feed and auto trim.
- One person operate 2 or 3 machines at the same time.
- 自動送料自動修邊。
- 操作人員可一次操作2-3台機器。



RRT-90-2

Technical Specifications 機器規格表

Machine Type	機型		RRT-90-2	RRT-90-1
Weight	重量	kg	200	200
Dimensions	尺寸	cm	105(L) × 95(W) × 135(H)	105(L) × 95(W) × 135(H)
Number of Knives	刀數		2	1
Cutting Range	修邊範圍	mm	O.D. 20-90	O.D. 20-90
Rotation Speed	轉速		2 Stages	2 Stages
Motor	馬達		1/4HP X 2	1/4HP X 2
Capacity	產量	pcs/min	14-20(Approx.)	14-20(Approx.)
Controller	控制器		Electronic-controlled	Electronic-controlled

ANR/ANRC Series

Auto Vacuum / Collet Chuck Type

真空式/夾頭式自動整修機

This machine is especially suitable for trimming the flash of large volume oil seal.

適用於切削多量少樣的油封。

Features 特點

- Auto feeding, trimming, and collecting most of the trimmed flash.
- This machine avoid imprecise cutting because the central point is static while the spindle is rotating.
- 自動送料、自動修邊並收集大部分毛邊。
- 切割位置的中心點固定以避免不精確的切割。



ANR-20

Technical Specifications 機器規格表

Machine Type	機型		ANR-20	ANR-40	ANR-60
Weight	重量	kgs	460	460	480
Dimensions	尺寸	cm	100(L) × 190(W) × 190(H)		
Cutting Range	修邊範圍		8-20	21-40	41-50
Capacity	產量	pcs/min	10-14 (Approx.)		
Spindle Speed	主軸轉速	rpm	28000 (60Hz)		
Cutting Angle	修邊角度	°	30° - 70°		
Number of Knives	刀數		2		
Tooling Pad Size	治具墊	mm	φ 32 or φ 79		
Knife Blade Size	刀片尺寸	mm	3×3 or 3×1.8 or 5×1.8		
Vibrating Tray Size	震動盤	mm	400	400	500
Motor	馬達		1/4HP		
Controller	控制器		PLC + HMI		

ACRT Series

Auto Rotary Type for Rubber Parts

全自動轉盤式橡膠件修邊機

Features 特點

- Vibrating tray vibrates the rubber parts to appropriate location.
- The vacuum generator will suck the rubber parts through the mold during the cutting period.
- Various cutting modes & cutting angle for customer selection.
- Productivity determined by machine and not the operator. In short productivity is controllable.
- 震動桶將橡膠件震動至正確位置。
- 利用真空特性配合模具吸住加工物件以切割毛邊。
- 多種切割模式及切割角度可供選擇。
- 生產量由機器決定，而非由操作人員的工作速度決定。生產量容易控制。



ACRT

Technical Specifications 機器規格表

Machine Type	機型		ACRT-50-6-2	ACRT-50-6-3
Weight	重量	kg	450	500
Dimensions	尺寸	cm	130(L) × 130(W) × 170(H)	
Number of Knives	刀數		2	3
Cutting Range	修邊範圍	mm	O.D. 8-30	
Number of Workstations	工作站數		6	
Driver	驅動器		Index table	
Spindle Speed	主軸轉速	rpm	1700(60Hz)	
Motor	馬達		1/2HP X 2	1/2HP X 3
Capacity	產量	pcs/min	14-20(Approx.)	
Controller	控制器		PLC + HMI	

ATAS Series

Auto Trimming and Spring Loading Machine

自動修邊裝簧機

This machine is suitable to cut the flash and load the spring with high volume oil seals in the production line.

本機器適用於生產線上多量少樣油封的切削毛邊及裝填彈簧。

Features 特點

- The vacuum generator/gripper feeds the oil seal to precisely fit it onto the cutting mold and then cut the flash.
- Magnet rotator/Vibrating tray feeds the spring to appropriate location.
- The tooling is pulled fast by the air cylinder to combine the oil seal with the spring.
- It will check if the spring is being correctly loaded by metal probe and sort out defects.
- 吸盤/夾爪將油封精確的置放於主軸之上然後切割毛邊。
- 磁盤/震動盤將彈簧送至正確掛簧位置。
- 氣缸快速的推動治具來將油封與彈簧組合。
- 以探針確認彈簧是否正確裝填並將不良品分離。



ATAS-50

Technical Specifications 機器規格表

Machine Type	機型		ATAS-20	ATAS-40	ATAS-60
Weight	重量	kg	560	560	580
Dimensions	尺寸	cm	95(L)X190(W)X190(H)	95(L)X190(W)X190(H)	95(L)X205(W)X 190(H)
Oil Seal Range	油封尺寸	mm	8-20	21-40	41-50
Capacity	產量	pcs/min	7-12 (Approx.)		
Spindle Speed	主軸轉速	rpm	2800 (60Hz)		
Cutting Angle	修邊角度	°	30° - 70°		
Number of Knives	刀數		2		
Tooling Pad Size	治具墊	mm	φ 32 or φ 79		
Cutter Size	刀片尺寸	mm	3x3 or 3x1.8 or 5x1.8		
Spring Range	彈簧尺寸	mm	32 (Max.)		
Size of Seal Feeder	震動盤尺寸	mm	400 (Vibrating Tray)	400 (Vibrating Tray)	500 (Vibrating Tray)
Motor	馬達		1/4HP		
Controller	控制器		PLC + HMI + Mechanical Probe		

ATOAS Series

Auto Trimming, Dimension Measuring, and Spring Loading Machine

自動修邊、裝簧及尺寸測量機

This machine is suitable to cut the flash, load the spring and use the CCD camera to measure the dimension of high volume oil seals.

本機器適用於大量油封的切割毛邊，裝填彈簧及尺寸的測量。

Features 特點

- The operator teach how to measure the part's dimension through the 2D or 3D gauge. Then sets the machine with the standard parameters and the tolerances in HMI.
- Magnet rotator/Vibrating tray feeds the spring/seal to appropriate location.
- The tooling is pulled fast by the air cylinder to combine the oil seal with the spring.
- The CCD camera will measure dimension of the I.D./O.D. of the trimmed seals.
- It will check if the spring is being correctly loaded by metal probe and sort out defects.
- The measured report can be saved in the USB device for further analysis purpose by the computer.
- The vacuum generator/gripper feeds the oil seal to precisely fit it onto the cutting mold and then cut the flash.
- 操作者經由2D或3D的儀器教導如何測量尺寸，然後於HMI上輸入標準尺寸及上下限值。
- 磁盤/震動盤將彈簧/油封送至正確掛簧位置。
- 氣缸推快速的推動治具來將油封與彈簧組合。
- CCD攝相機測量裝簧後的內徑及外徑。
- 以探針確認彈簧是否正確裝填並將不良品分離。
- 測試報告能被儲存於USB裝置上，以作為進一步分析之用。
- 吸盤/夾爪將油封精確的置放於模具之上然後切割毛邊。



ATOAS

Technical Specifications 機器規格表

Machine Type	機型		ATOAS-20	ATOAS-40
Weight	重量	kg	480	480
Dimensions	尺寸	cm	100(L) × 200(W) × 190(H)	
Oil Seal Range	油封尺寸	mm	8-20	21-40
Capacity	產量	pcs/min	7-12 (Approx.)	
Cutting Angle	修邊角度	°	30° - 70°	
Number of Knives	刀數		2	
Tooling Pad Size	治具墊	mm	φ 32 or φ 79	
CCD Resolution	畫素	pixels	1280 X 1024	
Max. Part's O.D.	最大外徑	mm	60	
Part's Height	高度	mm	1.2-15	
Measurement Repeatability	重現性	ID, μm	30	
Knife Blade Size		mm	3×3 or 3×1.8 or 5×1.8	
Spring Range	彈簧尺寸	mm	30 (Max.)	
Size of Seal Feeder	震動盤尺寸	mm	400 (Vibrating Tray)	
Motor	馬達		1/4HP	
Controller	控制器		PLC + HMI + CCD Camera	



NCHL Series

Oil Seal Dimension Measuring Machine

油封尺寸測量機

This machine is attached with the CCD camera to measure the dimension of the oil seal.

本機器以CCD測量油封的尺寸。

Features 特點

- Then operator will get the inner/outer dimension in about 1 sec after the hand leave the measuring glass plate.
- The measured report can be saved in the USB device for further analysis purpose by the computer.
- 操作者於手離開玻璃盤面後約1秒鐘內得到測量尺寸。
- 測試報告能被儲存於USB裝置上，以作為進一步分析之用。



NCHL-60

Technical Specifications 機器規格表

Machine Type	機型		NCHL-60	NCHL-120	NCHL-190
Weight	重量	kg	120	150	190
Dimensions	尺寸	cm	50(L) X 60(W) X 180(H)	50(L) X 60(W) X 190(H)	50(L) X 60(W) X 220(H)
Max. Part's O.D.	最大外徑	mm	60	120	190
Measurement Repeatability	重現性	µm, ID	30	30	50
Capacity	產量	pcs/sec	1 (Approx)		
part's Height	高度	mm	0.8-25 60Hz		
Working Temperature	工作溫度	°C	23~27		
CCD Resolution	畫素	pixels	1280 X 1024		
Controller	控制器		PLC + HMI + CCD Camera		

ACH Series

Auto Oil Seal Dimension Measuring Machine

全自動油封尺寸測量機

This machine is suitable to measure the dimension of high volume oil seals in the production line.
適用於生產線上檢測多量的油封的尺寸。

Features 特點

- The operator sets the measured dimension (by 2D or 3D equipment) in the HMI as a sample dimension to teach the CCD how to measure dimension of the parts.
- The conveyor and rotating glass plate feed the parts to the inspection area.
- To measure I.D. and OD of the different color oil seal.
- The machine sorts the inspected parts for good parts and defects.
- The measured report can be saved in the USB device for further analysis purpose by the computer.
- 操作者將測量到的尺寸(經由2D或3D儀器)輸入HMI當成樣本尺寸，以教導CCD如何測量良品與不良品。
- 輸送帶及轉動的玻璃盤自動的將被測量的油封送入檢測區。
- 全自動量測不同顏色的油封的內徑及外徑。
- 自動分離良品與不良品。
- 測試報告能被儲存於USB裝置上，以作為進一步分析之用。



ACH-50

Technical Specifications 機器規格表

Machine Type	機型	ACH-50	
Weight	重量	kg	350
Dimensions	尺寸	cm	80(L) X 150(W) X 190(H)
CCD Resolution	畫素	pixels	1280 X 1024
Max. Part's O.D.	最大外徑	mm	50
Min. Part's I.D.	最小內徑	mm	10
Part's Height	高度	mm	5-13
Capacity	產量	pcs/hr	2800(Approx.,OD=22mm)
Measurement Repeatability	重現性	ID, μm	30
Motor	馬達	Servo Motor 0.3kw	
Controller	控制器	PLC + HMI + CCD Camera	
Number of CCD		1	

ASA Series

Oil Seal Spring Loading Machine

油封裝彈簧機

This oil seal machine is especially suitable for loading springs with large volume oil seals.

本機器適用於大量油封與彈簧的組合。

Features 特點

- Magnet rotator/Vibrating tray feeds the spring to appropriate location.
- The tooling is pulled fast by the air cylinder to combine the oilseal with the spring.
- It will check if the spring is being correctly loaded by metal probe and sort out defects.
- 磁盤/震動盤將彈簧及油封送至正確掛簧位置。
- 氣缸快速的推動治具來將油封與彈簧組合。
- 以探針確認彈簧是否正確裝填並將不良品分離。



ASA-20

Technical Specifications 機器規格表

Machine Type	機型	ASA-20	ASA-40	ASA-60	
Weight	重量	kg	250		
Dimensions	尺寸	cm	120(L) × 90(W) × 180(H)		
Size of Seal Feeder	震動盤尺寸	mm	400 (Vibrating Tray)	400 (Vibrating Tray)	500 (Vibrating Tray)
Oil Seal Range	油封尺寸	mm	O.D. 8-20	O.D. 20-40	O.D. 40-50
Spring Range	彈簧尺寸	mm	32(Max.)		
Capacity	產量	pcs/min	11-18 (Approx.)		
Controller	控制器	PLC + HMI + Mechanical Probe			

OASA Series

Oil Seal Spring Loading and Dimension Measuring Machine

裝簧及尺寸測量機

This machine is suitable to load the spring and use the CCD camera to measure the dimension of high volume oil seals in the production line.

本機器適用於生產線上多量少樣油封的裝填彈簧及尺寸的測量。

Features 特點

- The operator teach how to measure the part's dimension through the 2D or 3D gauge. And then sets the machine with the standard parameters and the tolerances in HMI.
- Magnet rotator/vibrating tray feeds the spring/ seal to appropriate location.
- The tooling is pulled fast by the air cylinder to combine the oil seal with the spring.
- The CCD camera will measure dimension of the I.D./O.D. of the trimmed seals.
- It will check if the spring is being correctly loaded by metal probe and sort out defects.
- The measured report can be saved in the USB device for further analysis purpose by the computer.
- 操作者經由2D或3D的儀器教導如何測量尺寸，然後於HMI上輸入標準尺寸及上下限值。
- 磁盤/震動盤將彈簧/油封送至正確掛簧位置。
- 氣缸快速的推動治具來將油封與彈簧組合。
- CCD攝相機測量裝簧後的內徑及外徑。
- 以探針確認彈簧是否正確裝填並將不良品分離。
- 測試報告能被儲存於USB裝置上，以作為進一步分析之用。



OASA-20

Technical Specifications 機器規格表

Machine Type	機型	OASA-20	OASA-40	OASA-50	
Weight	重量	kg	280		
Dimensions	尺寸	cm	120(L) × 130(W) × 180(H)		
Size of Seal Feeder	震動盤尺寸	mm	400 (Vibrating Tray)	400 (Vibrating Tray)	500 (Vibrating Tray)
Oil Seal Range	油封尺寸	mm	O.D. 8-20	O.D. 20-40	O.D. 40-50
Spring Range	彈簧尺寸	mm	32(Max.)		
Capacity	產量	pcs/min	11-18 (Approx.)		
CCD Resolution	畫素	pixels	1280 X 1024		
Max. Part's O.D.	最大外徑	mm	50		
Part's Height	高度	mm	1.2-15		
Measurement Repeatability	重現性	ID, μm	30		
Controller	控制器	PLC + HMI + CCD Camera + Metal Probe			

MT Series

Metal Case Trimming Machine

鐵殼導角機

This machine is used to cut the height and edges of the metal cases.

適用於鐵殼的角度及高度修邊。

Features 特點

- Automatically finishes all operations in one cycle.
- Cutting speed is much faster than lathe.
- The machine is attached with the Inverter to adjust the gyration speed of the shaft.
- 一次完成所有的動作，工作速度遠快於車床。
- 配備變頻器以調整主軸轉速。



MT-150
Vertical Type
立式



MT-25A
Horizontal Type
臥式

Vertical Type Technical Specifications 立式機器規格表

Machine Type	機型		MT-150	MT-380
Weight	重量	kg	480	600
Dimensions	尺寸	cm	120(L) × 75(W) × 155(H)	120(L) × 72(W) × 165(H)
Cutting Range	修邊範圍	mm	O.D. 40 -150	O.D. 110 -380
Spindle Speed	主軸轉速	rpm	2220, 1315, 750 (60Hz)	1060, 670, 400 (60Hz)
Motor	馬達	HP	2	3
Tolerance	公差	mm	0.03	
Controller	控制器		PLC + Hydraulic Unit (2HP)	

Horizontal Type Technical Specifications 臥式機器規格表

Machine Type	機型		MT-25A
Weight	重量	kg	180
Dimensions	尺寸	cm	70(L) X 110 (W) X 135(H)
Cutting Range	修邊範圍	mm	O.D. 20-80
Spindle Speed	主軸轉速	rpm	Adjustable
Tolerance	公差	mm	0.05-0.15
Activation Method	動作方式		Foot
Controller	控制器		Electrical-controlled + Pneumatic Cylinder
Motor	馬達	HP	2HP
Inverter	變頻器	HP	2HP
Air Pressure Input	氣壓	kg	6 (min)

AMT Series

Auto Metal Case Trimming Machine

全自動鐵殼導角機

This machine is used for trimming and chamfering the edges of high volume formed metal cases in the production line.

適用於鐵殼的角度及高度修邊。

Features 特點

- Auto feeding, trimming, and collecting most of the trimmed flash.
- Cuts the height and angle simultaneously.
- Integrates advanced mechanical design and electrical drive system to reach super high trimming speed.
- 自動送料、自動修邊並收集大部分毛邊。
- 高度及角度一次切割完成。
- 整合先進的機構設計及電控系統來達到超高的切割速度。



AMT-40

Technical Specifications 機器規格表

Machine Type	機型	AMT-40	AMT-60
Weight	重量	kg	600
Dimensions	尺寸	cm	150(L) × 160(W) × 170(H)
Cutting Range	修邊範圍	OD, mm	20 -40
Capacity	產量	pcs/min	14-20(Approx.)
Vibrating Tray Size	震動盤	mm	600
Motor	馬達	Inverted Motor, 2HP	
Inverter	變頻器	2HP	
Controller	控制器	PLC + HMI	

WNR Series

Metal Case Combining Machine

油封鐵殼組合機

This machine is used for combining oil seal with the metal case (B type metal case, oil seal, washer).

用以將鐵殼及油封組在一起(B型鐵殼、油封、墊片)。

Features 特點

- Attached with 2 independent high speed cylinders and rolling with lower speed to achieve the best rolling quality with more efficiency.
- Attached with the Inverter to adjust the gyration speed of the spindle to achieve the best rolling quality.
- 兩支獨立的高速氣缸以慢速進行滾邊的動作，以得到最好的滾邊品質及最高的效率。
- 配備變頻器調整主軸轉速以得到最好品質。



WNR-200-H

Technical Specifications 機器規格表

Machine Type	機型		WNR-200-A	WNR-200-H
Weight	重量	kg	300	430
Dimensions	尺寸	cm	100(L) × 100(W) × 190(H)	100(L) × 135(W) × 190(H)
Hold Down Unit	下壓裝置		Cylinder	Hydraulic Cylinder
Oil Seal Range	油封範圍	mm	O.D. 20-300	
Right Curling Angle	右滾邊角度	°	30°~70°	
Vertical Curling Angle	垂直滾邊角度	°	90°	
Spindle Rotation Speed	主軸轉速	rpm	Adjustable	
Motor	馬達		3 HP	
Inverter	變頻器		3 HP	
Controller	控制器		PLC	

KS Series

Knife Grinding Machine

磨刀機

This machine is used for grinding the blade.
用以將刀片磨銳利。

Features 特點

- The water cooling system will cool down the grinding temperature to avoid the overheating of the blade.
- The gear handle and double slides help the operator to orientate the blade precisely and easily.
- 採水冷式冷卻刀片以避免刀片過熱。
- 齒輪把手及雙十字滑座協助使用者精確定位。

Technical Specifications 機器規格表

Machine Type	機型		KS1
Weight	重量	kg	200
Dimensions	尺寸	cm	60(L)X80(W)X160(H)
Cooling System	冷卻方式		1/8 Hp Water Pump
Motor	馬達		1/2 Hp
Spindle Speed	主軸轉速	rpm	3400(60Hz)
Orientation Device	定位裝置		Slide & Gear Handle
Operating Way	磨刀方向		Reciprocating



KS1



SF Series

Oil Seal Garter Spring Coiling Machine

彈簧成型機

This garter spring making machine coil the metal wire into a spring.
本機器將鐵線捲成彈簧。

Features 特點

- Integrates advanced mechanical and electrical drive systems to speed up the coiling speed.
- Standardized cams and specified cutting tools enable fast adjustment of the coiling wire diameter.
- Wire feeding length and spring coiling diameter are changed easily and quickly.
- 以微型的機構設計，配合先進電控系統來達到超高的捲彈簧速度。
- 標準化的凸輪及特殊的治具讓捲線外徑的調整更加快速。
- 送線長度及捲線外徑非常容易調整。



SF-101

Technical Specifications 機器規格表

Machine Type	機型		SF-101	SF-102	SF-103
Weight	重量	kg	350	280	350
Dimensions	尺寸	cm	90(L) × 90(W) × 150(H)	95(L) × 95(W) × 145(H)	95(L) × 105(W) × 145(H)
Wire Dia. Range	線徑	mm	0.18 -0.7	0.18 -0.7	0.18 -1.1
Coiling Dia.	彈簧外徑	mm	0.9-5.0	0.9-5.0	0.9-7.5
Max. Feeding Length	最長送線長度		Un-limited		
Capacity	產量	pcs/min, 50mm	60(Approx.)	40(Approx.)	50(Approx.)
Max. Feeding Speed	最快送線速度	m/min	140	100	100
Number of Roller	滾輪數	pcs	2	2	4
Motor	馬達		Servo Motor x 2		
Controller	控制器		CNC	PLC	PLC / CNC

SCF Series

Oil Seal Garter Spring Jointing Machine

彈簧接圓機

This machine connects the 2 ends of the garter spring to form a circle.
連結彈簧的兩端形成一個圓的彈簧。

Features 特點

- This garter spring making machine designs and integrates advanced mechanical and electrical drive systems. Super high jointing speed.
- Standardized cams and specified jointing tools for fast adjustment of the joint length and diameter
- The test sampling and maintenance is made easy through a single step instruction.
- As the garter spring machine shut down suddenly, or by pushing E-stop, it needs not be revised again and resume operation when the machine was restarted because of the automatic shut down memory system.
- 以微型的機構設計，配合先進電控系統來達到超高的接圓速度。
- 標準化的凸輪及特殊的接圓治具讓長度及外徑的調整更加快速。
- 單步指令讓樣品測試及維護更加容易。
- 當突然停電或壓下急停按鈕時，目前的動作位置將被記憶。



SCF-101

Technical Specifications 機器規格表

Machine Type	機型		SCF-101B	SCF-102B
Weight	重量	kg	340	370
Dimensions	尺寸	cm	65(L) × 110(W) × 130(H)	
Spring Outer Dia.	彈簧外徑	mm	1.0-2.2	1.0-3.5
Spring Length	彈簧長度	mm	20-100	80-135
Capacity	產量	pcs/min	40-100(Approx.)	40-80(Approx.)
Clutch Brake	剎車		1 kg Electromagnetism	
Motor	馬達		DC Motor 0.2KW	
Controller	控制器		PLC + Touch Panel	

HLT Series

Horizontal Type Life Testing machine

臥式壽命測試機

This machine applies the hydraulic pressure to the testing seals to test the durability.

本機器以油壓加壓於油封來測試耐久性。

Features 特點

- The operator sets the testing temperature, pressure and oil cylinder's moving speed with different lubrication oil for seals.
- There are many different test modes applying for different oil seal.
- The test data is saved in the memory device and can be readout by computer for further analysis purpose.
- 操作者設定測試溫度，壓力及氣缸移動速度來測試不同的潤滑油下油封的壽命。
- 多種不同測試模式可供選擇。
- 測試資料可存於機器上以供電腦分析之用。



HLT-1

Technical Specifications 機器規格表

Machine Type	機型		HLT-1
Weight	重量	kg	800
Dimensions	尺寸	cm	150(L) × 110(W) × 170(H)
Pressure	壓力	kg/cm ²	50-200
Part Range	尺寸範圍	mm	O.D. 20-55
Temperature	溫度	°C	200 (Max.)
Hydraulic Pump	油壓幫浦		5HP X 1, 3HP X 1
Moving Speed	移動速度	mm/sec	145 (Max.)
Controller	控制器		PLC + HMI

LT Series

Vertical Type Life Testing Machine

立式壽命測試機

This machine applies the pressure to the rubber parts like the shock absorber, seals, bush and bumper to test the durability.

本機器加壓於橡膠件如避震器、油封、避震襯套及避震墊片上來測試耐久性。

Features 特點

- The operator adjusts the cam to change the moving stroke.
- The press holds down the testing parts to test it.
- The motor drives the cam to move the parts up and down while testing.
- There are many different running speeds, temperatures, testing time and moving stroke for operator to choose. And the data recorder records the variation chart.
- The test data is saved in the memory device and can be readout by computer for further analysis purpose.
- 操作者調整凸輪來改變移動行程。
- 下壓裝置壓著測試物件來測試。
- 測試時馬達驅動凸輪來上下移動測試件。
- 多種不同速度、溫度、時間及行程可供選擇，資料紀錄器將記錄變化量的曲線。
- 測試資料可存於機器上以供電腦分析之用。



LT-1

Technical Specifications 機器規格表

Machine Type	機型		LT-1
Weight	重量	kg	1000
Dimensions	尺寸	cm	135(L) × 90(W) × 220(H)
Pressure	壓力	kg	500(Max.)
Stroke	行程	mm	1~100
Running Speed	轉動速度	Hz	0.5~5.0
Motor	馬達		10HP X 1
Part's Height	高度	mm	800(Max.)
Controller	控制器		PLC + HMI

TRD

Seal Shell (Metal Insert)
Rotary Air-dryer
油封鐵殼風乾迴轉機



Machine Type 機型			TRD Single 單聯	TRD Double 雙聯
Capacity per time 處理能力	kg/time		20	20x2
Rotary Speed 轉速	rpm		Adjustable 可變式	
Total Power 總用電量	kW		1.2	2.4
Machine Dimension WxLxH 尺寸	mm		850x1450x1150	1270x1450x1150
Machine Weight 重量	kg		150	250

TA

Seal Shell (Metal Insert)
Adhesive Applying Machine
浸藥附著機



Machine Type 機型			TA-30	TA-50
Capacity per time 處理能力	kg/time		30	50
Electrical Power 電熱	kW		7	
Total Power 總用電量	kW		8	
Air Pressure 空氣壓力	kg/cm ²		5~7	
Machine Dimension WxLxH 尺寸	mm		1600x1700x2250	1900x1700x2250
Machine Weight 重量	kg		2500	2800

TS

Automatic Feeding & Cutting Machine
橡膠自動切斷機



Machine Type 機型			TS-20	TS-25
Blade Width 刀寬度	mm		608	759
Width of Machine 機械寬度	mm		1130	1260
Height of Machine 機械高度	mm		1280	
Cutting Speed 每分鐘切料	times/min		57	
Horse Power 馬力	HP		1	
Width Range 調整切斷寬度	mm		1-95	
Weight 重量	kg		420	460

TD

Rubber Slitting Machine
橡膠分條機



Machine Type 機型			TD-20	TD-25
Blade Width 刀寬度	mm		608	760
Width of Machine 機械寬度	mm		1068	1220
Height of Machine 機械高度	mm		1200	
Cutting Speed 每分鐘切料	mm/min		8200	
Horse Power 馬力	HP		1	
Weight 重量	kg		230	260



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Machinery Range 產品全系列

Oil Seal & Rubber Parts Trimming Machine 油封及橡膠件整修機 - 標準機型

NR Vacuum Type 真空式機型

NRC Collet Chuck Type 夾頭式機型

CRT Rotary Type 轉盤式機型

RRT Ring Cone Type 輪轉式機型

Oil Seal Trimming Machine-Automatic 油封整修機系列 - 全自動機型

ANR Auto Vacuum Type 真空式全自動機型

ANRC Auto Collet Chuck Type 夾頭式全自動機型

ACRT Auto Rotary Type 全自動轉盤式

ATAS Auto Trimming and Spring Loading 自動修邊裝簧機

ATOAS Auto Trimming, Dimension Measuring, and Spring Loading Machine 自動修邊，裝簧及尺寸測量機

Optional Device 選配輔助設備

NCHL Oil Seal Dimension Measuring Machine 油封尺寸測量機

ASA Oil Seal Spring Loading Machine 油封裝彈簧機

OASA Oil Seal Spring Loading and Dimension Measuring Machine 油封裝簧及尺寸測量機

MT Metal Case Trimming Machine 鐵殼導角機

WNR Metal Case Combining Machine 油封鐵殼組合機

KS Knife Grinding Machine 磨刀機

SF Oil Seal Garter Spring Coiling Machine 彈簧成型機

SCF Oil Seal Garter Spring Jointing Machine 彈簧接圓機

LT Life Testing Machine 壽命測試機

Mold Preheating Machine 模具預熱機

Mold Polishing Machine 模具拋光機

Grease Applying Machine 注黃油機

Rubber Raw Material Weight Scale 配方秤重機

Correlated Machine 其他相關機具



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