

# PIONEER ARC<sup>®</sup>

## 鐸 & 切自動化設備製造 CE

Manufacturer of Auto Weld & Cut Equipment



聯懷企業有限公司  
LEHAI ENTERPRISE CO., LTD.

聯寶機電有限公司  
LEPAO ELECTRICITY MACHINERY CO., LTD.

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# Company Profile

<http://www.Lehai.com.tw>

<http://www.pioneerarc.com.tw>

聯懷企業/聯寶機電 (PIONEER ARC) 專業製造銲接&切割自動化設備。十幾年來不斷致力於研究發展，強化專業技能，提昇效率品質。本公司堅持追求完美、精益求精、努力開發及改良設備。主動積極了解客戶需求，提供完善售後服務。不斷增進國際視野，提昇效率品質，以最優質的產品來滿足客戶需求。

A specialist supplier of automated cutting and welding equipment for over a dozen years, LEHAI Enterprise is dedicated to R&D and enhancing technological expertise to upgrade efficiency and quality.

Always pursuing perfection, we adopt the latest equipment to develop new, innovative products. Listening carefully to customers' feedback and responding promptly by providing complete after-sales service, we are fully ready to meet global demands with quality products.



工廠實景 Factory

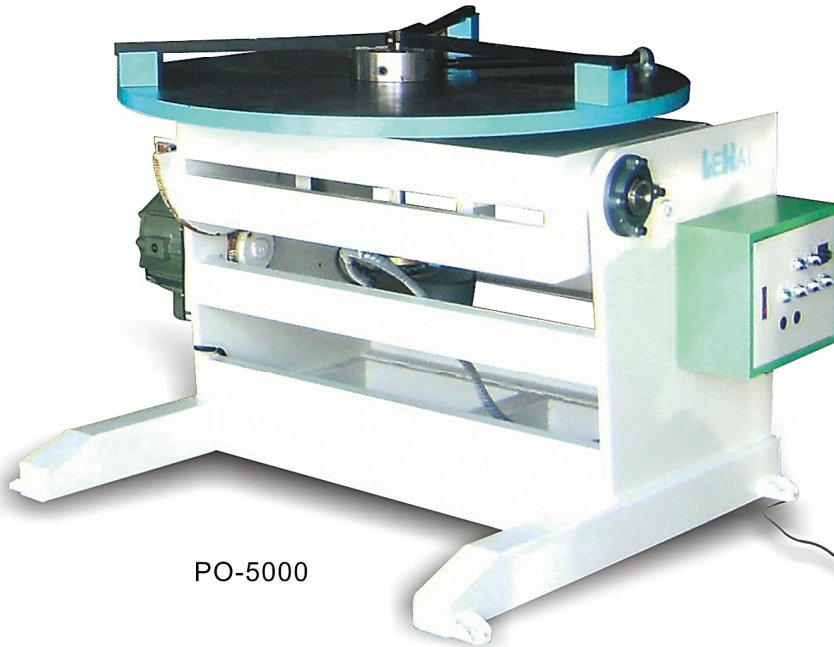
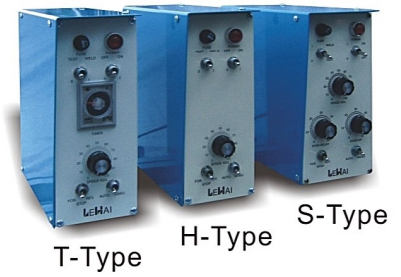


設計部門 Design department



- 採蝸桿/蝸輪傳動，無齒隙，運轉穩定，定位精準。
- 可結合自動/半自動銲接設備
- 可選擇"時間計時(T)"，"自保持(H)"，"原點覆歸(S)"控制器。
- Positioner system transmit by worm gear set without gap and accurate.
- Available for combine with automatic weld equipments.
- Can select "Timer meter (T)", "Trigger hold (H)", "Auto-control with overlap (S)" controler.

## Controler



PO-5000



PO-200



PO-350



PO-500



PO-1000

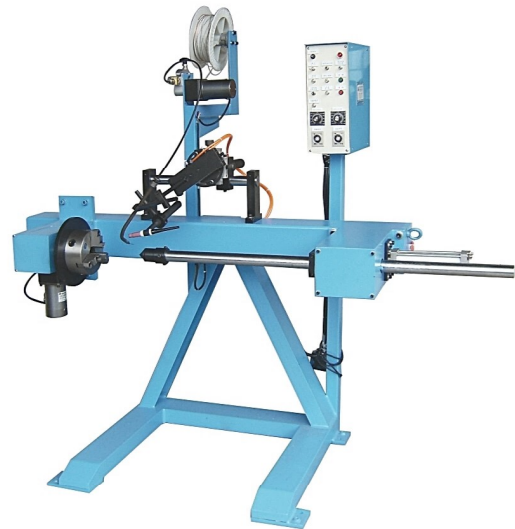
型號 Model	承載重量 Load 0°	轉盤速度 Speed	圓盤直徑 Table Disc	角度翻轉 Slant Operating
PO-220	200 kg	A: 1~16 rpm B: 0.4~4 rpm	Φ330mm	手動 Manual
PO-350	350 kg	A: 1~16 rpm B: 0.4~4 rpm	Φ330mm	手動 Manual
PO-500	500 kg	0.2~2 rpm	Φ500mm	手動 Manual
PO-750	750 kg	0.1~1 rpm	Φ600mm	手動 Automatic
PO-1000	1000 kg	0.05~0.5 rpm	Φ700mm	自動 Automatic
PO-2000	2000 kg	0.05~0.3 rpm	Φ900mm	自動 Automatic
PO-3000	3000 kg	0.025~0.15 rpm	Φ1000mm	自動 Automatic
PO-5000	5000 kg	0.02~0.12 rpm	Φ1200 mm	自動 Automatic

- 採鋸槍迴轉或轉盤迴轉。
- 自動送料系統 (選擇性配備)。
- 數位式控制系統，可手動/全自動控制，操作容易。
- 可多點定位設計。

- Device turning torch stands or table rotation.
- Automatic feeder system (option).
- Adopt control system, available with manual or all automatic operation.
- Multi point positioner design.



UR-600 (Submerged ARC)



URA-500



TR-400



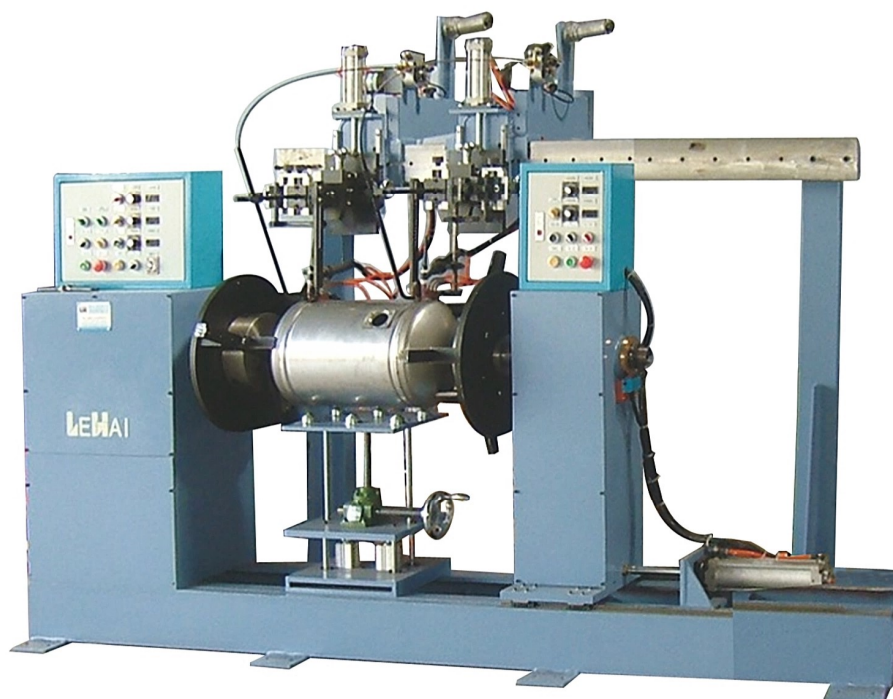
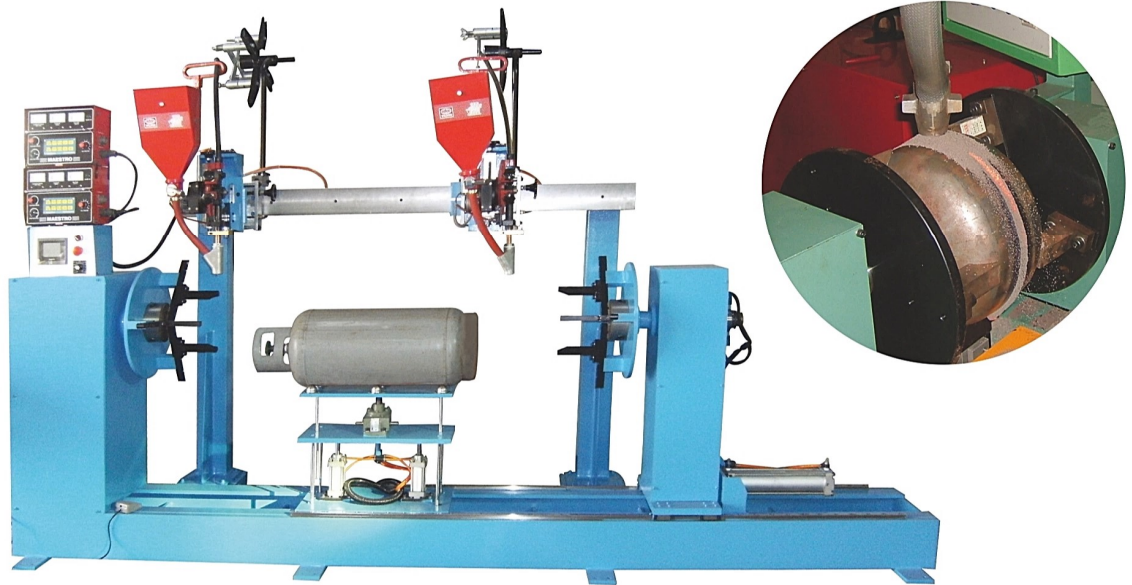
SRT-300

型號 Model	轉盤迴轉 Rotary Table			鋸槍迴轉 Torch Rotation
	UR-600	URA-500	STR-300	TR-400
入力電源 Input Power	1Φ 220V 50/60HZ			
盤面尺寸 Disc Φ/ Table	Φ330 mm			□ 500x400 mm
承載重量 Load 0° (kg)	200 kg			
銲接速度 Speed rpm.	TL : 0.2 ~ 4 rpm MH : 1 ~ 16 rpm			
傾斜操作 Slant Operating	-	角度調整 Adjustment Angle	-	-



## Circumferential Welder

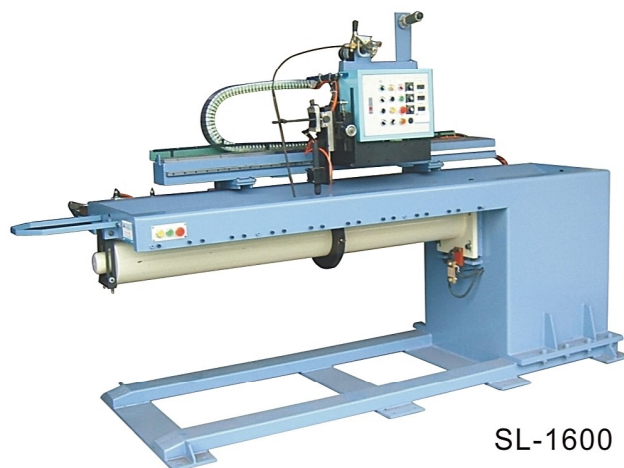
- 可依工件直徑、長度、材質不同，選擇設計。
  - 自動送料系統精準、功能佳。
  - 可適用於TIG / PLASMA / CO2 鐸接設備。
  - 採數位控制系統，可手動 / 全自動控制，操作容易。
- 
- Available of different kinds of working piece's diameter, length, material etc...
  - Automatic feeding system for the working piece.
  - Model for TIG / PLASMA / CO2 welder.
  - Adopt control system, available with manual or all automatic operation.







SL-800



SL-1600

- 銲接方式可採氬銲、電離氣銲、CO2、潛伏銲等。
- 可選擇適用於圓筒、方筒、平板之任何金屬。
- 工件中心定位，可採紅外線指示中心線，定位準確，操作簡便。
- 背襯採水冷，增加機台散熱，保持銲接品質。
- 獨特結構設計，精密美觀具高夾持力。
- 可增加主座設計，適大桶槽加工。

- Compatible with TIG , PLASMA , CO2 and SUBMERGED etc welding machine.
- Suitable for round tube, square tube or flat sheet etc metal material.
- Adopt linear guide way for the slide beam. let torch move more accuracy and set in position.
- The back lining have water cooling system inside. easy to exhaust the welding heat and keep the well welding quality.
- Unit construction design, high tension for the clamping vise .
- Can modify the machine's body for big diameter tube.



SL-2000

Model	Work Piece ID Min	Move the Speed	Effective Working
SL-500	60 mm	120~1200 mm/min	500 mm
SL-800	80 mm		800 mm
SL-1000	100 mm		1000 mm
SL-1300	120 mm		1300 mm
SL-1600	130 mm		1600 mm
SL-2000	150 mm		2000 mm
SL-2500	200 mm		2500 mm
SL-3000	250 mm		3000 mm



SL-3000

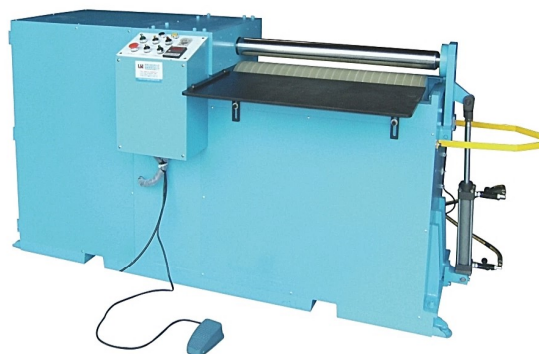


## 雙軸滾圓機(標準型)

PIONEER ARC®

### Two-Shaft Bending Rolls (Standard Model)

- 滾輪採優力膠輪，耐磨且壽命長，不傷成形工件表面。
- 採油壓式之滾壓筒，作動力大且均勻，成品穩定。
- 可依適用長度、直徑選擇製作。
- 直筒型或錐型工件選擇製作。



BR-800

- The roller adopt rubber material, anti-wear & long lasting use, also avoid scratch on the surface of working piece.
- Rolling by hydraulic system, high power & equable, highly rolling quality.
- Available for your sample's length & diameter.
- Available for round or taper pipe.



BR-1300

## 雙軸滾圓機(重力型)

### Two-Shaft Bending Rolls (Strengthen Model)

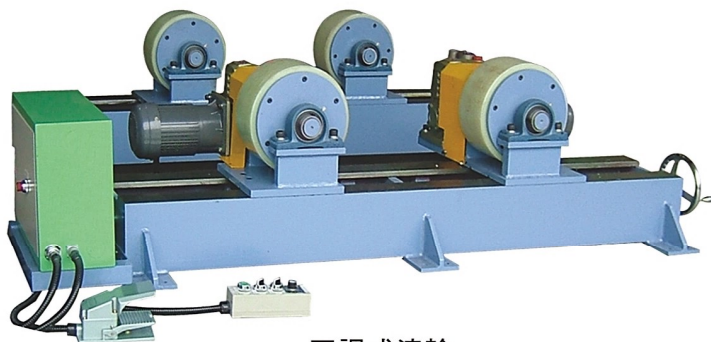
- 強力型油壓系統及機台結構。
- 成型材料可提高厚度。
- Strengthen hydraulic system and machine.
- Bending material thickness can raise.



SBR-1600  
(Strengthen)

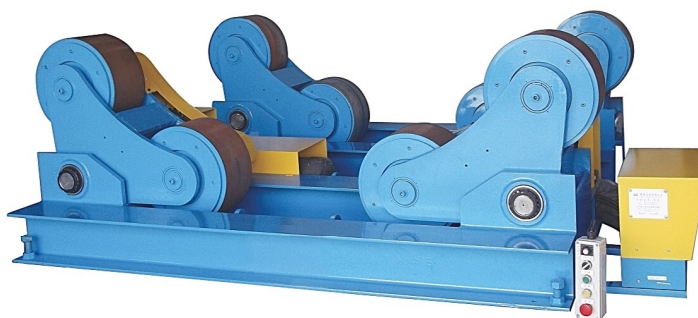


- 優力膠輪設計、耐磨、壽命長、不傷工作表面。
- 螺栓固定或方螺桿調整輪距、確實且容易。
- 扭力安定、傳動確實、速度反應靈敏。
- 具延時起動、寸動、煞車、無段微調，可作全自動銲接加工。
- 工作直徑：可依需求不同改變尺寸設計製作。
- 載重：以上規格最大，可以依需求設計製作。

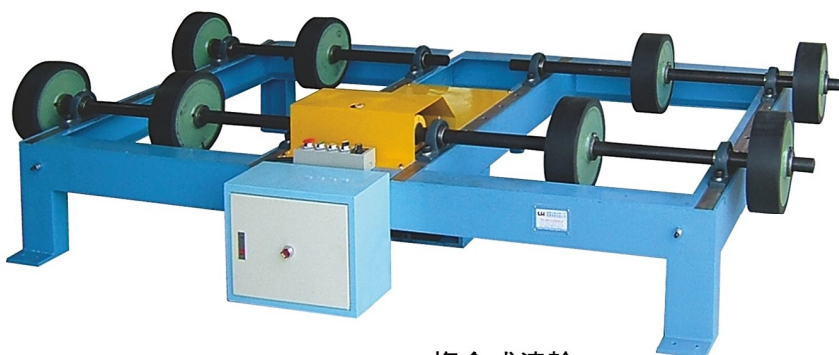


可調式滾輪  
Adjusting Roller

- Rubber wheel design, anti-wear, longlasting use, no-scratch for working piece.
- Adopt fixing nuts or screw adjustment for rolls's distance easy and precise.
- Stable torque, stable driven, agile speed control.
- Delay start, jog, brake, stepless adjustment, compatible with automatic welding system .
- Working diameter : available for special modification.
- Max. loading: available for special modification.



自調式滾輪  
Self-Adjusting Roller



複合式滾輪  
Multi-Turning Roller

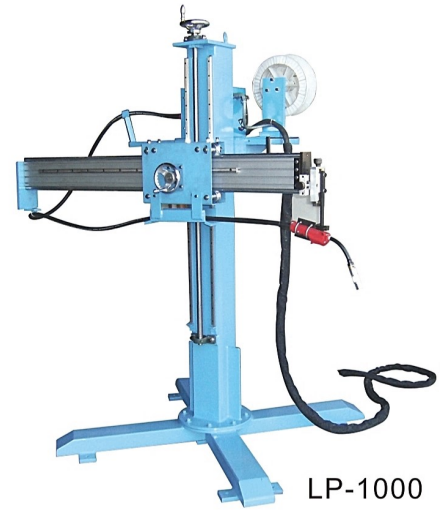




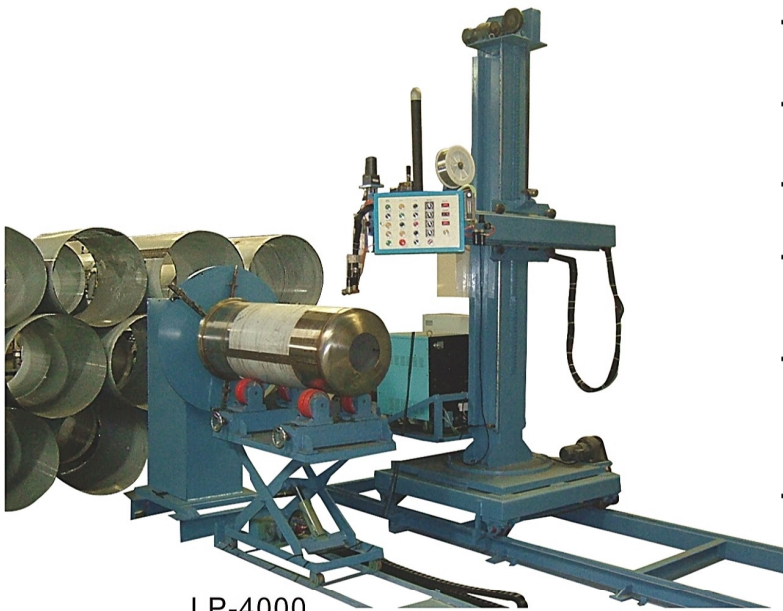
LP-2000



PO-500 Positioner



LP-1000



LP-4000

- 可應用於氬銲(TIG) / 電離氣銲(PLASMA) / CO2銲 / 潛伏銲(SUBMERGED)
- 垂直軸採馬達傳動，配合滾珠緊迫滑軌，重型鏈條帶動昇降，並有安全裝置防止鏈條斷裂。
- 水平臂採DC MOTOR傳動，配合精密軸承移動平穩。
- Suitable with TIG / PLASMA / CO2 / SUBMERGED welding machine compatible with automatic feeding equipment.
- Vertical traveling column was traveling by power motor connect to ball screw and linear guide ways. also installed heavy duty chain with safety device for avoid breaking the chain.
- Horizontal side beam, adopt DC motor with high accuracy bearing and screw for traveling .

Specification 規格 型號 Model	立柱 Vertical Column			橫臂 Side Beam		
	Working Range Vertical	Traveling Speed	Column Rotation	Working Range	Boom Load Each End	Welding Speed
LP-1000	1 M	1000 mm/min	Manual 360°	1 M	100 kg	150~1500mm
LP-2000	2 M	1000 mm/min	Manual 360°	2 M	120 kg	150~1500mm
LP-3000	3 M	1000 mm/min	Manual 360°	3 M	150 kg	150~1500mm
LP-4000	4 M	900 mm/min	Manual 360°	4 M	150 kg	150~1500mm
LP-5000	5 M	900 mm/min	Manual or 0.2 rpm	5 M	200 kg	150~1500mm
LP-6000	6 M	800 mm/min		6 M	200 kg	150~1500mm

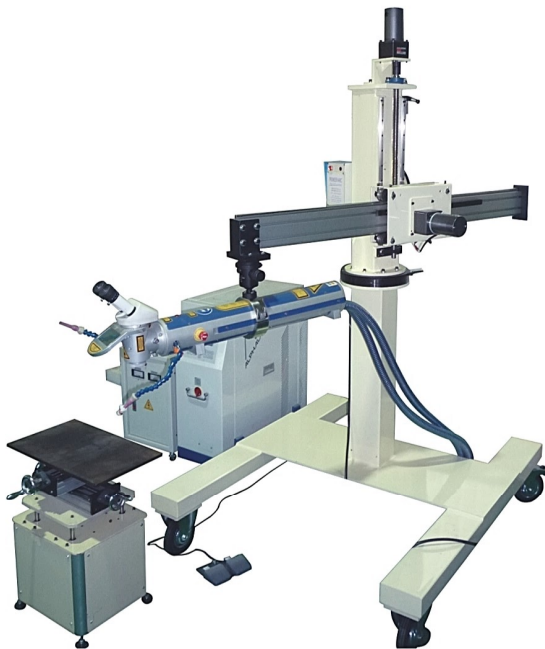
### NC Positioner for ARC-Welding Robot

- 伺服傳動系統，無間隙。
- NC 多元操作設定方便。
- 適精密銲接，旋轉精準。
- Servo-controlled to ensure gapless positioning.
- NC for easy pre-set, multipurpose operation.
- Rotates precisely, suitable for precision welding.





## Laser Welding Automated Equipment



### ◎特點：

- 鐳接過程不因溫升而產生任何變形、歪曲或氧化等影響。
- 鐳接可滲入底材，附着力強而不會脫落。
- 二種不同的材質可鐳接。
- 不易產生氣泡或毛細孔。
- 可針對某一小點或深度，以往不易鐳接之部位。
- 超精密鐳接可縮短鐳後加工成本。

### ◎應用：

- 適用於任何金屬材料及塑膠射出模具。
- 各種零件細微部位之鐳接。
- 汽機車、紡織、機械零件、產業機械零件、光纖電纜、醫療用工業航太工業...等。



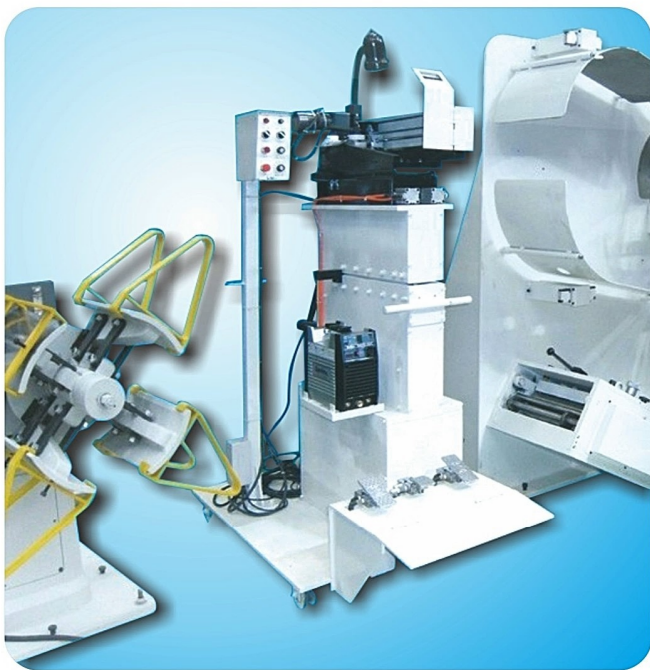
### ◎Specifications:

- No deformation, warp or oxidation due to thermal build-up.
- Deep penetration for firm, durable weld.
- Welds two different materials.
- No air bubbles or pores.
- Easily touches up tiny spot or extremely-narrow gaps.
- Cuts post-welding treatment cost.

### ◎Applications:

- Metals and plastic-injection tooling.
- Precious stones, wristwatches, eyeglasses, sensors and connectors.
- Parts for cars, motorcycles, machinery, fiber-optic cables, medical and aviation equipment.

- 超強氣壓/油壓雙刃裁剪，平直省力。
  - 氣壓/油壓簡易銅模夾持，具自動對中心功能，快速確實。
  - 變頻式精密直流氬銲機，確保銲道品質。
  - 結構輕巧、活動性特大。
- Super pneumatic/oil hydraulic double cutting, straight and effective.
  - Pneumatic/oil hydraulic copper mold clamp, automatically cauterized, accurate and rapid function.
  - Inverter DC TIG welder to ensure welding quality.
  - Compact construction and suitable for many production lines.



型號 Model	氣壓系列 Pneumatic Series				油壓系列 Oil Hydraulic Series				
	PSW-168	PSW-250	PSW-320	PSW-380	PSWH-168	PSWH-250	PSWH-320	PSWH-380	PSWH-420
入力電源 Input Power	1 $\phi$ , 220V				3 $\phi$ , 220V				
裁剪・銲接板寬 Strip Width	168 mm	250 mm	320 mm	380 mm	168 mm	250 mm	320 mm	380 mm	420 mm
裁剪・銲接板厚 Strip Thickness	2.0 mm	2.0 mm	2.0 mm	2.0 mm	2.5 mm	4.0 mm	4.0 mm	4.0 mm	4.5 mm
裁剪系統 Shearing System	氣壓 Pneumatic				油壓 Oil Hydraulic				
夾持機構 Clamping System	氣壓 Pneumatic				氣壓 / 油壓 Pneumatic / Oil Hydraulic				
銲接機 TIG Welder	氬銲機 200A				氬銲機 200A	氬銲機 300A			
外型尺寸 Dimension (L x W x H)	800x600 x1540 mm	920x600 x1540 mm	1000x600 x1540 mm	1100x600 x1540 mm	800x600 x1540 mm	920x600 x1540 mm	1000x600 x1540 mm	1100x600 x1540 mm	1200x600 x1640 mm



# Automatic Metal Strip Shear Welder / Straightener / Uncoiler

自動板端裁剪/銲接機  
型號：ASW系列

- 適用裁剪厚度：1.2~16mm
- 裁剪板寬：250~1600mm
- 金屬板端可手動調整
- 板端間隙可手動調整

Automatic metal strip shear welder  
Model : ASW series

- Strip thickness : 1.2~16mm
- Strip width : 250~1600mm
- Metal strip can manual correcting
- Strip crevice can manual adjustment.

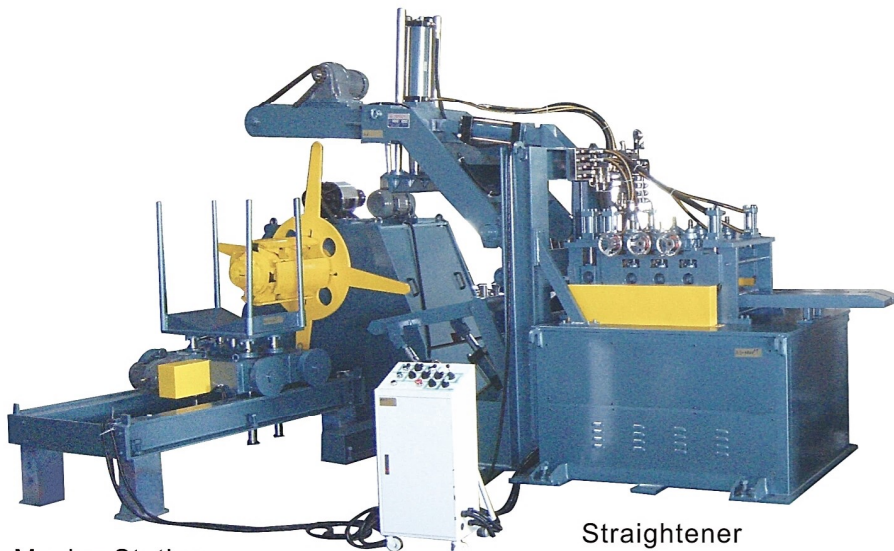
Automatic Metal  
Strip Shear Welder



Straightener



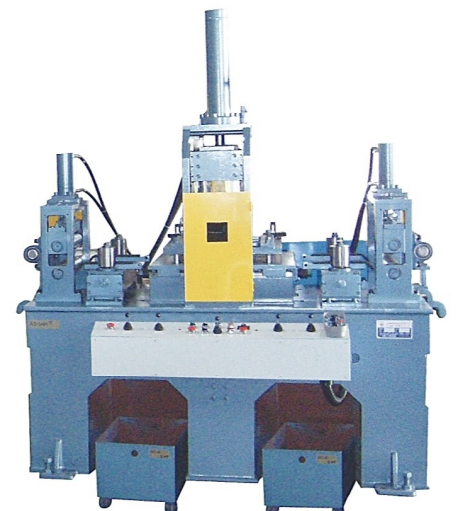
Uncoiler



Moving Station

Uncoiler

Straightener

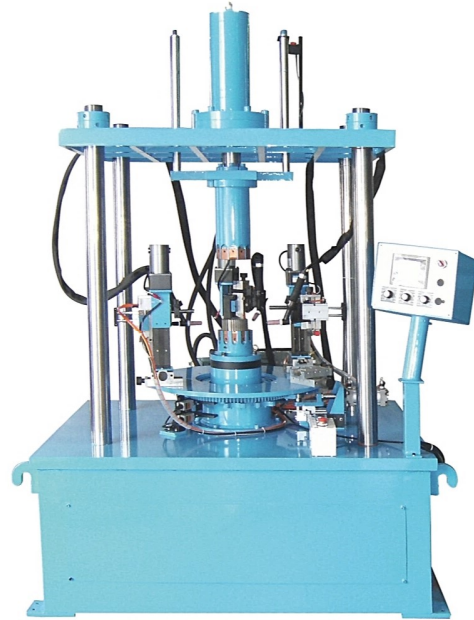


Automatic Metal  
Strip Shear Welder

馬達錠子鐸機  
Stator Lamination Welder

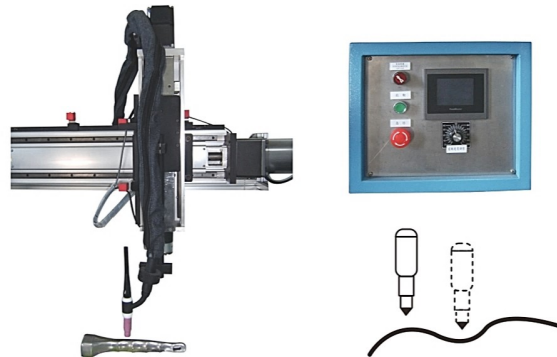


· 六槍鐸道自動鐸  
Six Weld Pass  
Automatic Welding

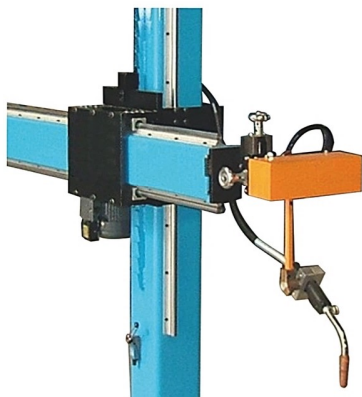


- 有效控制電壓恆定，促鐸槍中鐸棒可保持與鐸道高度一致，確保鐸接品質。
- 可預設鐸接高度。
- 可顯示目前的鐸接電壓。
- 具有寸動及偵測速度可調。
- 可隨時設定鐸接電壓。
- 具有50組記憶功能。
- The control voltage is constant, guarantees the welding quality.
- Preset welding height.
- May demonstrate the present welding voltage.
- Has the move and the detection speed adjustable.
- May set the welding voltage.
- Has 50 group of memory functions.

電壓控制器  
Arc Voltage Control



擺弧機構 Oscillator



- 擺弧控制：
- 左/右的速度控制調整
  - 擺弧寬度調整
  - 左/右停留調整
  - 中心調整
  - 防止電擊和高週波
  - 擺弧寬度：2.0~100 mm
  - 擺弧速度：2500~25 mm/min

- Oscillator Control:
- Left / right speed control adjustment
  - Oscillation width adjustment
  - Left / right dwell adjustment
  - Center adjustment
  - Preventive of electric shock and high frequency
  - Oscillation width 2.0~100 mm
  - Oscillation speed 2500~25 mm/min



## CNC Cutting Machine

- PC 控制器，中文化畫面，操作簡易。
  - 彩色螢幕，切割時光點跟著切割路徑跑。
  - 現場可直接製圖。
  - 偏角測定，鐵板未放正，亦可切割。
  - 掃瞄系統，將樣版轉換成切割檔。
  - 無線遙控裝置，可控制前進、後退、左、右、上、下、加減速、停止、繼續...等功能。
- PC based controller, provide use friendly interface.
  - Color monitor, high resolution graphics display, light spot moving on cutting path and X,Y.
  - Shape can be edited on controller.
  - Measure material variable angle, and cuts with variable angle.
  - PC scanner, scan templates and convert graphics to programs.
  - Wireless remote control, acc/dec speed, stop, go on, for/backward, right/left moving, torch up/down etc.



## 氬鐸自動送料機 TIG Wire Feeder



### 功能：

- 具寸動送線功能
- 具寸動收線功能
- DC 馬達無段微調速度
- 啟動延遲

### Functions :

- Inching line
- Inching closing line
- DC motor speed adjust
- Start delay

## 鎢棒研磨機

## Tungsten Electrode Grinders



	規格	Specification
鎢棒適用直徑	Use Diameter	1.6, 2.4, 3.2, 4.0
鎢棒磨尖角度	Grinding Angle	可調 Adjustable
功率	Power Factor	65W
電壓	Voltage	10V
轉速	Speed	1800 r/min
使用率	Duty Cycle	連續 Continuous