

### **PCW**

# Precision circumferential welding system

## 1. What's PCW

Let's start with the first set of slides



### PCW-350-08





#### What's PCW

ProArc Precision Circumferential Welding system provide all of the features necessary to position and rotate parts for circumferential welding.

The extreme accuracy of part rotation in conjunction with the air-actuated torch advance/retract feature and part holding via air tailstock.

PCW provide the requirement functions for precision joining using the Tig, MIG, Micro plasma, or Laser welding processes.



### PCW-350-08

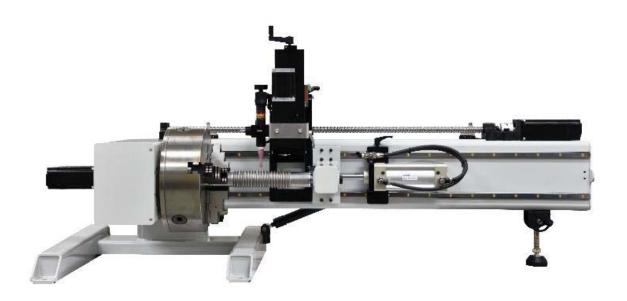
- PCW = Precision Circumferential Welding system
- 350 = part diameter up to Ø350mm
- 08 = Max. part length is 800mm





### PCW-350 Position

- Horizontal
- Vertical

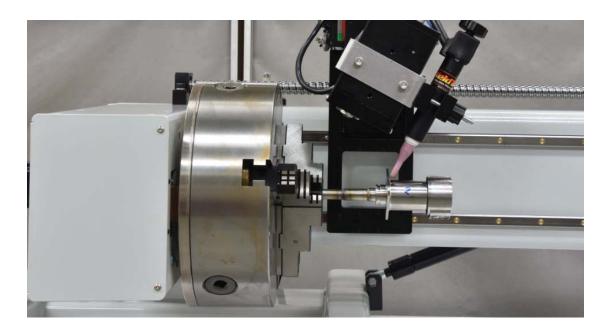






### Specification

- Work capacity (Horizontal/Vertical): 30KG / 50 KG
- Work piece diameter: Max. 350mm
- Work piece length: Max. 800mm
- Through hole: Max. 80mm (options)
- Rotation speed: 0.02~50 rpm





# 2. Standard Accessories



#### Includes

- Advanced control box
- PCW
- Pneumatic Tailstock with manual quick positioning device, 75mm stroke
- Manual torch angel adjustment device
- Slides
- 1. Y axis pneumatic slide, 100mm stroke
- 2. Z axis manual slide: 250mm stroke
- 3. Ø35mm torch holder





# 3. Optional Accessories

**For Advance Applications** 



### AVC (option)

- ProArc designs AVC
- Integrated control
- Stroke is 25mm





### Motorize carriage on X axis (option)

- Ball screw drive system with dual linear guide way.
- 800mm stroke.
- Positioning accuracy is 0.1mm
- Motion speed 6,000mm/min





### Gas Spring (option)

- Easy to change position from Horizontal to Vertical
- Protect the operator

 The advantages of gas springs over mechanical springs are their speed and their unique damping properties, which allow even heavy objects to be handled with ease



### Remote Control pendent (option)

- X axis motion
- A axis motion
- Pulse generator for speed adjustment
- Useful for parameter development





# 4. Control Box

**Smart Software and Friendly HMI** 

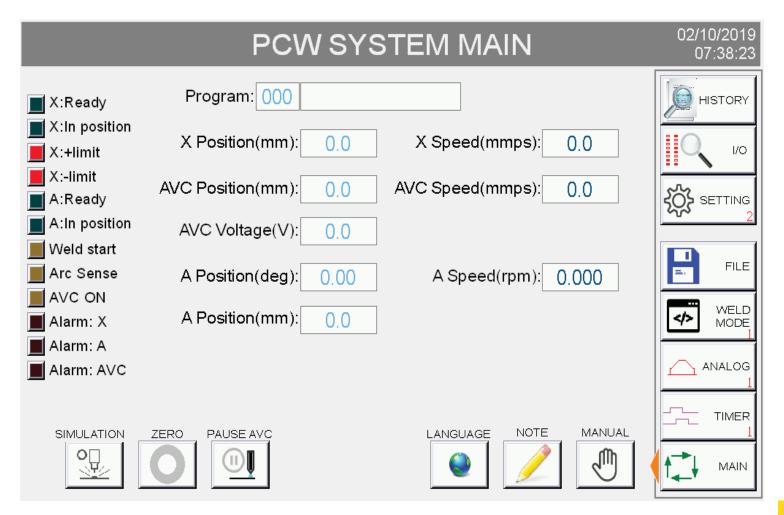


### Controller



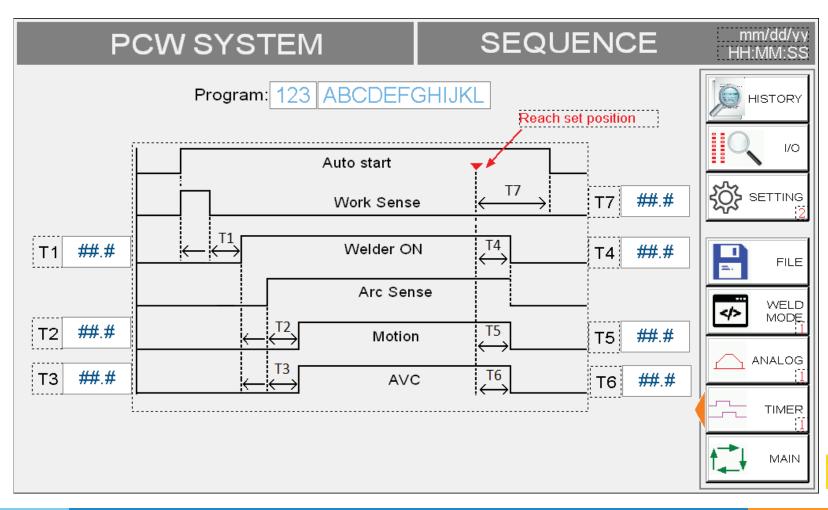


#### Main screen



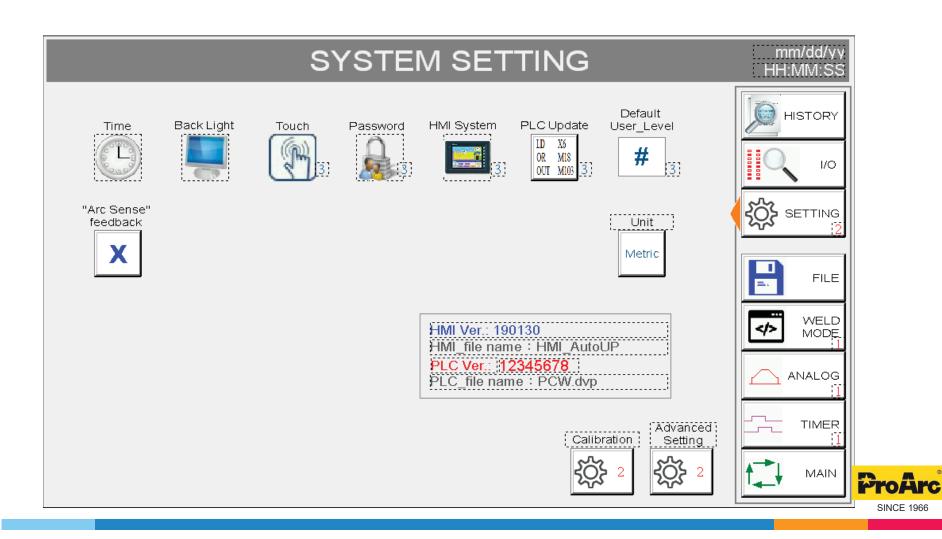


### Sequence setting

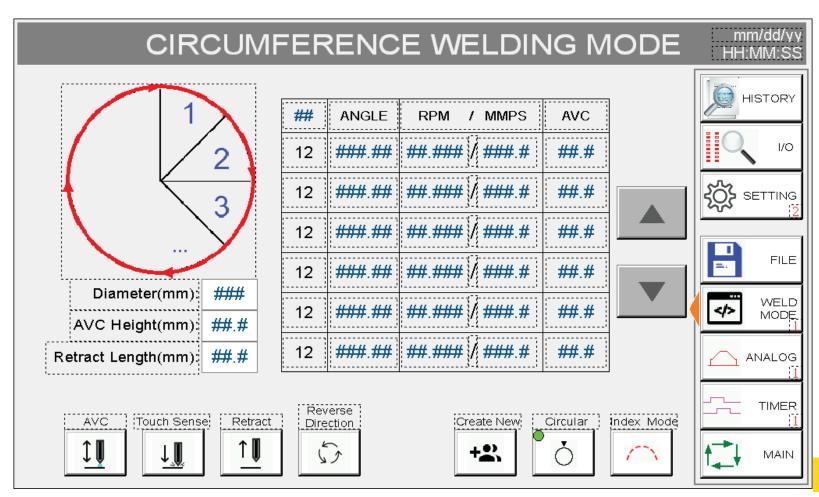




### System Setting

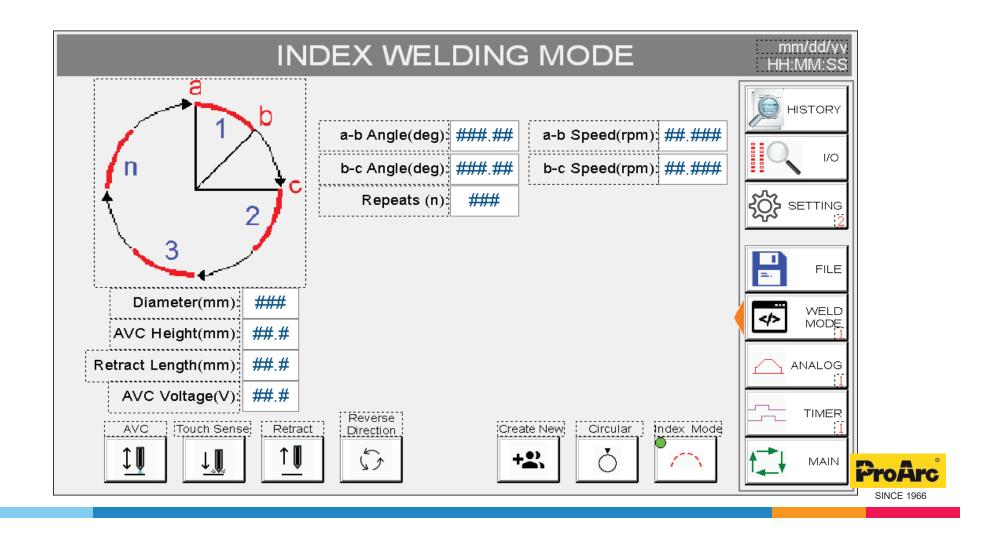


### Multi Speed Functions

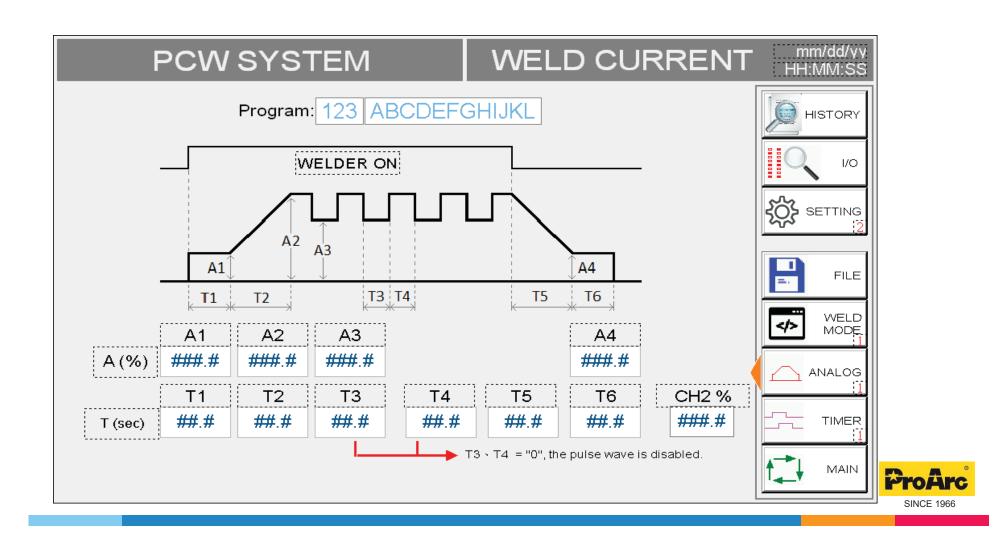




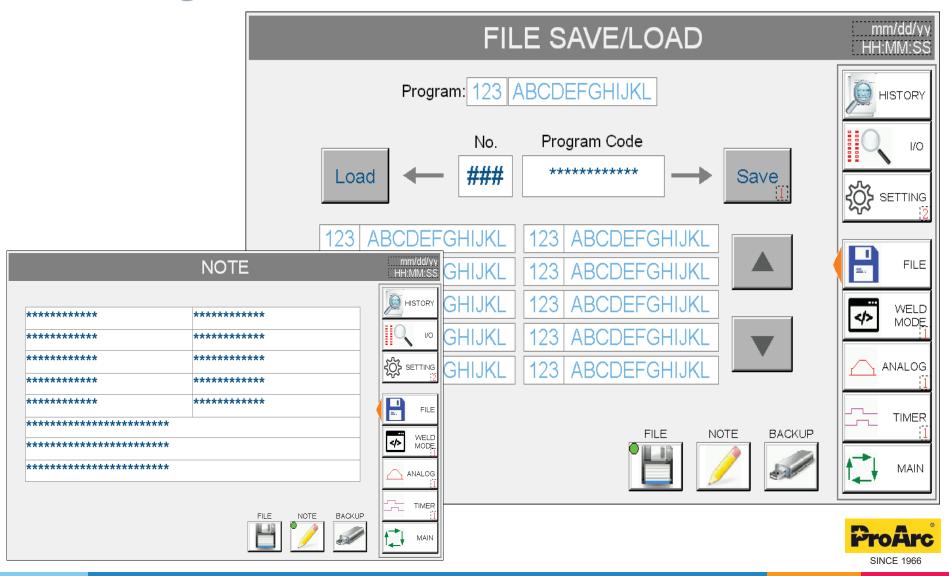
### Index Welding Mode



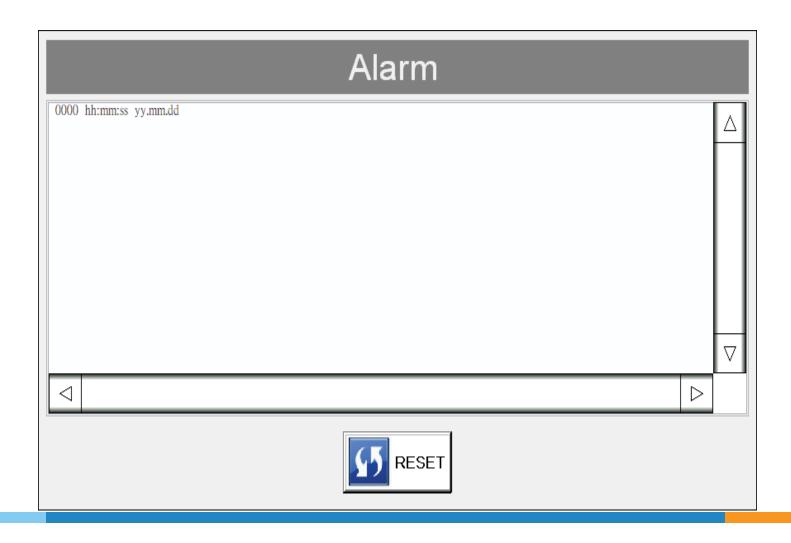
#### Weld Current Control



### Programs Save/Load



### Alarm History





# 5. Market

Aerospace / High quality parts



### Aerospace





## Aerospace

