



Programmable Circle Welders



The **CWP-5 Programmable Circle Welder (CWP-1500)** is designed for single or multi-pass welding of couplings or nozzles utilizing MIG or Flux Core process capable of welding 1-12" (25-305 mm) diameters. This machine uses a microprocessor to control the rise and fall through encoder position.

The **CWP-5AX Programmable Circle Welder (CWP-1560)** is designed for single or multi-pass welding of couplings or nozzles utilizing Sub-Arc, MIG or Flux Core process capable of welding 1-12" (25-305 mm) diameters. This machine uses a microprocessor to control the rise and fall through encoder position.

The **CWP-7 Programmable Circle Welder (CWP-1700)** is equipped for MIG, Flux Core or Sub-Arc welding on vessels and domed heads. The CW-7 has a working range of 6-24" (152-610 mm) O.D. nozzles with no cable wrap up for multi-pass welding. This machine uses a microprocessor to control the rise and fall through encoder position.

These units are capable of using welding wire sizes from .035-3/32" (.8-2.4 mm). Please refer to the chart (on pg. 7) for additional information.



The **CWP-18 Programmable Circle Welder (CWP-1800-SA)** is designed for single or multi-pass welding of couplings or nozzles into vessels or domed heads utilizing Sub-Arc, MIG or Flux Core process with gas shielding. The CWP-18 mounts on a 3 jaw chuck for welding diameters of 10-50" (254-1270 mm) O.D. This machine uses a microprocessor to control the rise and fall through encoder positioning. Photo shown with optional Flux Recovery System installed.



The **CWP-11 Programmable Circle Welder (CWP-1100)** is designed for welding of nozzles into vessels utilizing Sub-Arc, MIG or Flux Cored Process. The CWP-11 mounts on a 3-Jaw Chuck for welding diameter 6-50" (152-1270 mm) O.D. The machine uses a microprocessor to control the rise and fall through encoder positioning. Photo shown with optional Flux Recovery System installed.



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Model	Process Capabilities	Welding Diameter	Welding Wire Size	Rotation Speeds	Rise / Fall	Rating amps	Standard Equipment
CWP-5 CWP-1500	MIG/MAG, FCAW	1-12" (25-305mm)	.035-1/16" (.8-1.6mm)	.5-6.0 rpm	CNC Controlled	300 amps 100% duty cycle	Burn back control, horizontal and vertical adjustment gun & cable
CWP-5AX CWP-1560	MIG/MAG, FCAW, SAW	1-12" (25-305mm)	.035-3/32" (.8-2.4mm)	.5-6.0 rpm	CNC Controlled	500 amps 100% duty cycle	Same as CW-5 plus: meter kit, torch angle adjuster, flux hopper, nozzle & cone.
CWP-7 CWP-1700	MIG/MAG, FCAW, SAW	6-24" (150-610mm)	.035-3/32" (.8-2.4mm)	.2-2.2 rpm	CNC Controlled	500 amps 100% duty cycle	Burn back control, horizontal and vertical adjustment gun & cable.
CWP-11 CWP-1100	MIG/MAG, FCAW, SAW	10-50" (254-1270mm)	Solid Wire .035-3/32" (.8-3.0mm) Flux Cored Wire .068-.120" (1.7-3.0mm)	.2-2.2 rpm	CNC Controlled	500 amp CO ₂ 400 amp mixed gasses 60% duty cycle	Burn back control, horizontal and vertical adjustment gun & cable.
CWP-18 CWP-1800	SAW	10-50" (254-1270mm)	Solid Wire 3/32-7/32" (2.4-5.6mm)	.2-2.2 rpm	CNC Controlled	1200 amps	Burn back control, horizontal and vertical adjustment gun & cable.

Capabilities

Saddle Welds	Partial Offset Saddle Welds	Full Offset Saddle Welds
Programmable or Standard	Programmable Only	Programmable or Standard with Hillside Kit
Axes In-line: When the axes of the tube are in-line with each other, a standard machine with a mechanical cam will provide two equal rise and fall motions to follow the contour of the weld.	Axes offset, small tube still passes through the center of main tube: When the axes of the tubes are offset, but the small tube still passes over the center-line of the large tube, the contour of the weld is one small rise and fall and one larger rise and fall. The tube diameter and the off-set distance are entered into a program. The resulting contoured travel is calculated as part of the program. All motion is motorized and encoder controlled.	Axes offset, small tube completely off center of main tube axes: When the axes of the tubes are offset so far that the small tube is completely outside the main tubes center-line. A standard machine with a hillside adapter kit will produce the single rise and fall motion required to follow the contour of the weld.