SANPAW 150PW

DC Plasma Welding

Imagine harnessing the power of the sun in your workshop.

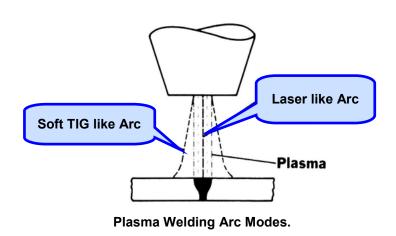
Plasma welding is a sophisticated welding process that utilizes an ionized gas known as plasma to produce an extremely high temperate arc.

This method is renowned for its precision, making it ideal for intricate work on thin or thicker metals and is more forgiving than Laser welding.

The process begins with the ionization of gas, often argon, to create plasma. This Plasma is then directed through a nozzle to generate a concentrated, high-temperature arc. The heat from this arc melts the metals, which fuse together upon cooling.

Features and Benefits of the SANPAW 150PW

- **Precision:** The concentrated arc allows for precise control,making it suitable for delicate work.
- **Versatility:** Capable of welding both thin and thick materials with a Soft TIG like Arc or a stiff columnar Laser like arc.
- Consistency: Produces high quality welds with minimal distortion.
- 0.5-200 Amp current range providing quality performance on a wide variety of applications.
- Smooth DC arc repetitive, high quality welds.
- Pilot Arc repeatable arc starting reducing defects and rework.
- Multiple Voltage Input 200 480VAC, 1/3 phase, 50 or 60 hz.
- Included Weld Sequencer (Current Sloper/Pulser).
- Internal Torch Coolant Recirculator.
- Save/Load USB Interface.
- Automated or Handheld.
- Can utilize a number of competitive torches.
- Approvals CSA (pending); IP23S; IEC 60974-1 (CE)
- 3 Year Warranty





Applications Plasma welding is widely used in industries such as aerospace, automotive, and electronics, where precision and quality are paramount.



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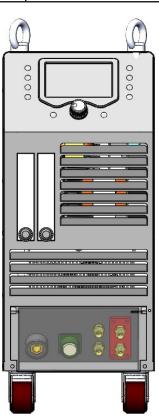
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The SANPAW 150PW system is shipped with a SANPAW 150PW unit, Gas Hoses, Dinse Plug, Coolant and the appropriate torch with a torch spare parts kit. Systems do not include Work Lead, Regulators or remotes. Select system and accessories below.

Torch (Rating)	System Description	w/12.5 ft. Torch and Leads	w/25 ft. Torch and Leads	
	PWH-75, 70 degree	PAW150P7570H125	PAW150P7570H25	
P-75	PWH-75, 90 degree	PAW150P7590H125	PAW150P7590H25	
(75 amps)	PWH-75, 180 degree	PAW150P75180H125	PAW150P75180H25	
	PWM-75, 180 degree	PAW150P75180M125	PAW150P75180M25	
	PWH-15, 70 degree	PAW150P1570H125	PAW150P1570H25	
P-15	PWH-15, 90 degree	PAW150P1590H125	PAW150P1590H25	
(150 amps)	PWH-15, 180 degree	PAW150P15180H125	PAW150P15180H25	
	PWM-15, 180 degree	PAW150P15180M125	PAW150P15180M25	
	PWH-22, 70 degree	PAW150P2270H125	PAW150P2270H25	
	PWH-22, 90 degree	PAW150P2290H125	PAW150P2290H25	
P-22	PWH-22, 180 degree	PAW150P22180H125	PAW150P22180H25	
(200 amps)	PWH-22A, 180 degree	PAW150P22180H125	PAW150P22180H25	
	PWM-22, 180 degree	PAW150P22180M125	PAW150P22180M25	
	PWM-22A, 180 degree	PAW150P22180MA125	PAW150P22180MA25	

- PWH designates a torch with a molded handle. (Good for Hand Held.)
- PWM designates a torch with rack and pinion.
- Torch amperage rating based on minimum electrode set back.

SANPAW 150PW (Unit Only)	IDU-W150PW-U1DVP
12.5 ft. Gas Hose (2 Required)	MS1000
Argon Regulator	MS1005
Hydrogen Regulator	MS1006
Note: 2 regulators required , one for Plasma Ga	s and one for Shield Gas.
25ft. Foot Control	FC1001
25ft. Hand Pendant	HP1425
1ft. Adaptor, 14-Pin Amp to 14-Pin Amphenol.	ADC001
15ft. Work Lead	WCE0006
Coolant (Sold by the Gallon = 1 Gallon.)	TK1014
Coolant (Sold by the Box = 4 Gallons).	TK1014B
Running Gear Dual Cylinder Rack	MS1105



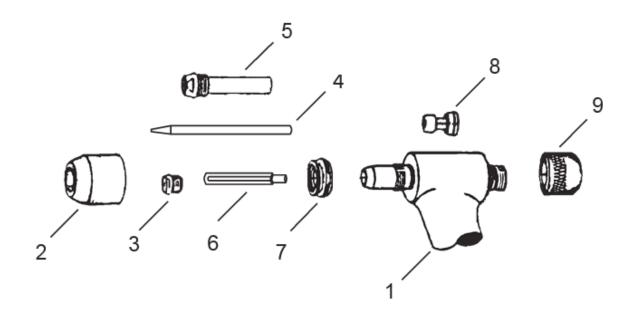


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SANPAW-150PW

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Torch Parts



Common Torch Consumables included in Spare Parts Kit.

ITEM NO.	PART DESCRIPTION	P-75 TORCH P75-2000	P-15 TORCH P15-2000	P-22 TORCH P22-2000	
2	Shield Cup	P75-3001	P15-3001	P22-3001	
3	Tip	P75-3006 (.045) 25A-lg P75-3007 (.062) 35A-lg P75-3008 (.081) 50A-lg	P15-3011 (.046) 50A-ext P15-3013 (.081) 100A-ext P15-3014 (.093) 130A-ext	P22-3006 (.062) 100A-ext P22-3007 (.093) 125A-ext P22-3009 (.125) 150A-ext	
4	Electrode	P75-3009 (.093) std	P15-3015 (.093) std.	P22-3010 (.187) ext.	
5	Liner	N/A	N/A	P22-3011	
6	Gas Distributor	P75-3013 (.093-electrode)	P15-3017	P22-3012	
7	Gas Diffuser	N/A	P15-3019	P22-3015	
8	Collet Assembly	P75-3017 (.093-electrode)	P15-3021	P22-3018	
9	Back Cap	P75-3019 (std-electrode)	P15-3022 (std-electrode)	P22-3020 (ext-electrode)	
N/S	Collar	N/A	N/A	P22-3016	
N/S	O-ring(liner)	N/A	N/A	P22-3024	
N/S	O-ring(internal)	N/A	N/A	P22-3025	
N/S	O-ring(back-cap)	P75-3016	P15-3020	P22-3017	
N/S	Gasket (shield cup)	P75-3015	P15-3018	P22-3013	
N/S	Lubricant	PAW-LUBE	PAW-LUBE	PAW-LUBE	
N/S	Gauge/Wrench	P75-2006 Not Included	P15-2006 Not Included	P22-2020 Not Included	

NOTE: Tip ratings @ minimum electrode setback.

^{*}Tip maximum current rating not to exceed the maximum output of SANPAW 150PW.



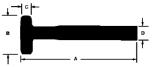
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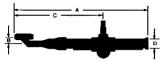
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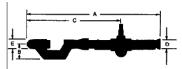
Torch Specifications

			Torch Lead Current		Coolant	Torch Dimensions				
	Туре	Part No.	Length	Rating	Requirements	Α	В	С	D	E
	PWH-75 70°	P75-1000(H) P75-1001(H)	12.5 ft. 25 ft.	75 Amps (DCSP)	2,000 BTU/hr (504 K/Cal/hr) 1/4 gpm coolant flow @ 50 PSI (0.9 lpm @ 3.7 kg/cm ₂)	7-15/16" (202mm)	1-11/16" (43 mm)	5/8" (16mm)	7/8" (22 mm)	
P75 Torch	PWH-75 90°	P75-1002 (H) P75-1003 (H)	12.5 ft. 25 ft.			7-3/4" (196mm)	1-11/16" (43 mm)	5/8" (16mm)	7/8" (22 mm)	
	PWM-75 180° Offset	P75-1004 (H) P75-1005 (M) P75-1007 (H)	12.5 ft. 25 ft.			18-1/4" (463 mm)	13/16" (21 mm)	Min. Max. 7-1/8" 15" (181 mm) (381 mm)	1-3/8" (35 mm)	
	PWH-15	P75-1006 (M)	12.5 ft.			8-3/4"	2-5/8"	7/8"	1-1/16"	
	70°	P15-1001 (H)	25 ft.	ft. 150 ft. Amps (DCSP)	6,000 BTU/hr (1513 K/Cal/hr) 1/3 gpm coolant flow @ 50 PSI (1.25 lpm @ 3.7 kg/cm₂)	(222 mm)	(67 mm)	(22 mm)	(27 mm)	
15 Torch	PWH-15 90°	P15—1002 (H) P15-1003 (H)	12.5 ft. 25 ft.			8-1/2" (216 mm)	2-5/8" (67 mm)	7/8" (22 mm)	1-1/16" (27 mm)	
	PWM-15 180° Offset	P15-1004 (H) P15-1005 (M)	12.5 ft.			19-1/4" (489 mm)	1" (25 mm)	Min. Max. 9-1/4" 16-3/4" (235 mm) (425 mm)	1-3/8" (35 mm)	
		P15-1006 (H) P15-1007 (M)	25 ft.					(120 11111)		
	PWH-22 70°	P22-1000 (H) P22-1001 (H)	12.5 ft 25 ft.	 		12-1/2" (318 mm)	3-3/16" (81 mm)	1-1/4" (32 mm)	1-3/8" (35 mm)	
	PWH-22 90°	P22-1002 (H) P22-1003 (H)	12.5 ft. 25 ft.	t. 200 Amps (DCSP) tt.	8,000 BTU/hr (2017 K/Cal/hr) 1/2 gpm coolant flow @ 50 PSI (1.9 lpm @ 3.7 kg/cm ₂)	12-1/4" (311 mm)	3-3/16" (81 mm)	1-1/4" (32 mm)	1-3/8" (35 mm)	
P22 Torch	PWM-22 180° Offset	P22-1004 (M)	12.5 ft. 25 ft.			18" (457 mm)	1-3/4' (44 mm)	Min. Max. 8-1/4" 16" (209 mm) (406 mm)	1-3/8" (35 mm)	1-1/4" (32mm)
	PWM-22A 180° Inline	P22-1006 (H) P22-1008 (M) P22-1007 (H)				21" (.53 m)	1-3/4" (44 mm)	Min. Max. 11-1/4" 19" (286 mm) (483 mm)	1-3/8" (35 mm)	1-1/4" (32mm)
		P22-1007 (H) P22-1009 (M)								
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- (H) designates torch with molded handle.
- (M) designates torch with rack and pinion assembly.

Output @		208 - 460 Volt Three Phase					
Duty Cycle	Input		208 VAC	240 VAC	480 VAC	575 VAC	
	Power (KVA/Kw)	3 ph	9.4/9				
200A @ 35%	Current (Amps)	3 ph	26	22.4	11.2	N/A	
	Power (KVA/Kw)	1 ph	9.4/9				
	Current (Amps)	1 ph	43.7	37.8	18.9	N/A	

Rated Output	Amps Volts Duty Cycle	0.5/200A 18/33V 150A @ 60%, 200A @ 35%	Contractor Control Current Control Analog Control	Remote Input Remote or Panel 0 - 10 Volts DC Input
Output Ranges	Low	0.5 - 20A 5 - 200A	Dimensions	Height: 25.49" (647.5mm) Width: 10.69" (271.5mm)
Load Volts OCV	12 - 25V 60VDC	C 2557	Weight:	Length: 23.23" (590mm) 79.4 lbs (36 kg)
Input Hz Flow Meters	50/60Hz Plasma	.5 - 3.0 SCFH (.25-1.5lpm)	Troigin.	. c. r 122 (cc 1.g)
	Shield	5 - 30 SCFH (2.5-15lpm)		



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