# 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.

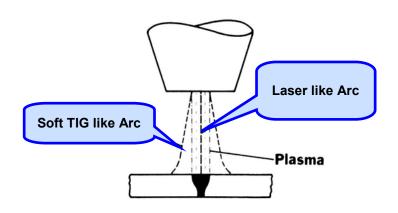
The process begins with the ionization of gas, often argon, to create plasma. This Plasma is then directed through a nozzle to generate a concentrated, high-temperature arc. The heat from this arc melts the metals, which fuse together upon cooling.

#### Features and Benefits of the SANPAW 150PW

- **Precision:** The concentrated arc allows for precise control, making it suitable for delicate work.
- Versatility: (Handheld or Automation) Capable of welding both thin and thick materials with a Soft TIG like Arc or a stiff columnar Laser like arc.
- Applications: Plasma welding is widely used in industries such as Tool & Die, aerospace, automotive, and electronics, where precision and quality are paramount.



• Plasma Welding Torch: Dual Flow, with Plasma Gas and Shield Gas options. (Handheld torch shown)



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Welding Arc Modes: Soft Tig like Arc or Laser like Arc.



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## SANPAW 150PW

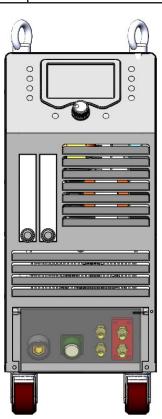
## **DC Plasma Welding**

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	
P-22 (200 amps)	PWH-22, 70 degree	PAW150P2270H125	PAW150P2270H25	
	PWH-22, 90 degree	PAW150P2290H125	PAW150P2290H25	
	PWH-22, 180 degree	PAW150P22180H125	PAW150P22180H25	
	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 Gas 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				



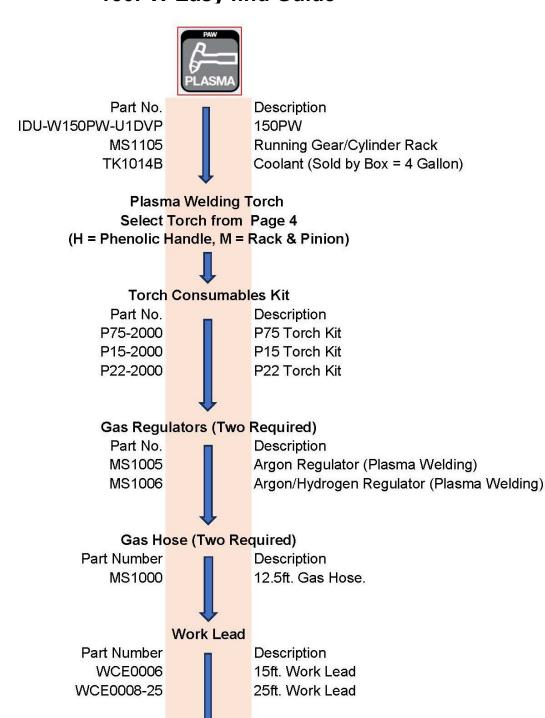


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## SANPAW-150PW

### **DC Plasma Welding**

#### 150PW Easy find Guide



#### **Remote Controls**

Part Number Description
FC1000 15ft. Foot Control
25ft. Foot Control



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## SANPAW 150PW

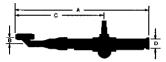
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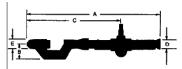
### **Torch Specifications**

			Torch Lead Current		Coolant	Torch Dimensions				
	Туре	Part No.	Length Rating	Requirements	Α	В	С	D	E	
	PWH-75 70°	P75-1000(H)	12.5 ft.	12.5 ft. 25 ft.	2,000 BTU/hr (504 K/Cal/hr)	7-15/16"	1-11/16"	5/8"	7/8"	
	70°	P75-1001(H)	25 ft.			(202mm)	(43 mm)	(16mm)	(22 mm)	
	PWH-75 90°	P75-1002 (H)	12.5 ft. 75 25 ft Amps	1/4 apm coolant flow	7-3/4"	1-11/16"	5/8"	7/8"		
P75 Torch	90	P75-1003 (H)		(DCSP)	@ 50 PSI (0.9 lpm @ 3.7 kg/cm <sub>2</sub> )	(196mm)	(43 mm)	(16mm)	(22 mm)	
	PWM-75 180° Offset	P75-1004 (H) P75-1005 (M)	12.5 ft.			18-1/4" (463 mm)	13/16" (21 mm)	Min. Max. 7-1/8" 15"	1-3/8" (35 mm)	
		P75-1007 (H)	25 ft.	! 		(403 11111)	(2111111)	(181 mm) (381 mm)	(33 11111)	
		P75-1006 (M)								
	PWH-15	P15-1000 (H)	12.5 ft.			8-3/4"	2-5/8"	7/8"	1-1/16"	
	70°	P15-1001 (H)	25 ft.	Ì	6,000 BTU/hr (1513 K/Cal/hr) 1/3 gpm coolant flow @ 50 PSI (1.25 lpm @ 3.7 kg/cm <sub>2</sub> )	(222 mm)	(67 mm)	(22 mm)	(27 mm)	
	PWH-15	P15—1002 (H)		150		8-1/2"	2-5/8"	7/8"	1-1/16"	
15 Torch	90°	P15-1003 (H)	25 ft.	25 ft. Amps (DCSP) 12.5 ft.		(216 mm)	(67 mm)	(22 mm)	(27 mm)	
_	PWM-15 180° Offset	P15-1004 (H) P15-1005 (M)				19-1/4"	1"	Min. Max. 9-1/4" 16-3/4"	1-3/8"	
	100 Oliset	P15-1005 (IVI)				(489 mm)	(25 mm)	(235 mm) (425 mm)	(35 mm)	
		P15-1007 (M)								
	PWH-22	P22-1000 (H)	12.5 ft			12-1/2"	3-3/16"	1-1/4"	1-3/8"	
	70°	P22-1001 (H) 25 ft.	Ì	8,000 BTU/hr	(318 mm)	(81 mm)	(32 mm)	(35 mm)		
	PWH-22	P22-1002 (H)	) 12.5 ft.		12-1/4"	3-3/16"	1-1/4"	1-3/8"		
	90°	P22-1003 (H)	25 ft.	200	(2017 K/Cal/hr) 1/2 gpm coolant flow	(311 mm)	(81 mm)	(32 mm)	(35 mm)	
P22 Torch	PWM-22	P22-1004 (M)	12.5 ft. Amps (DCSP)	@ 50 PSI	18"	1-3/4'	Min. Max.	1-3/8"	1-1/4"	
. 22 1 91 91.	180° Offset	P22-1005 (M)	25 ft.	l (Book)	(1.9 lpm @ 3.7 kg/cm₂)	(457 mm)	(44 mm)	8-1/4" 16" (209 mm) (406 mm)	(35 mm)	(32mm)
	PWM-22A	P22-1006 (H)	12.5 ft.			21"	1-3/4"	Min. Max.	1-3/8"	1-1/4"
	180° Inline	P22-1008 (M) P22-1007 (H)		ļ		(.53 m)	(44 mm)	11-1/4" 19" (286 mm) (483 mm)	(35 mm)	(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 @		208/240/400/480 Volt 1/3 Phase					
Duty Cycle	Input		208 VAC	240 VAC	480 VAC	575 VAC	
200A @ 35%	Power (KVA/Kw)	3 ph	9.4/9				
	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		Weight:	Length: 23.23" (590mm) 79.4 lbs (36 kg)
Input Hz Flow Meters	50/60Hz Plasma	.5 - 3.0 SCFH (.25-1.5lpm)	Wolght	70.4 IDS (00 kg)
	Shield	5 - 30 SCFH (2.5-15lpm)		



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