



Pulse Puddle Arc Welding (PPAW) the brochure



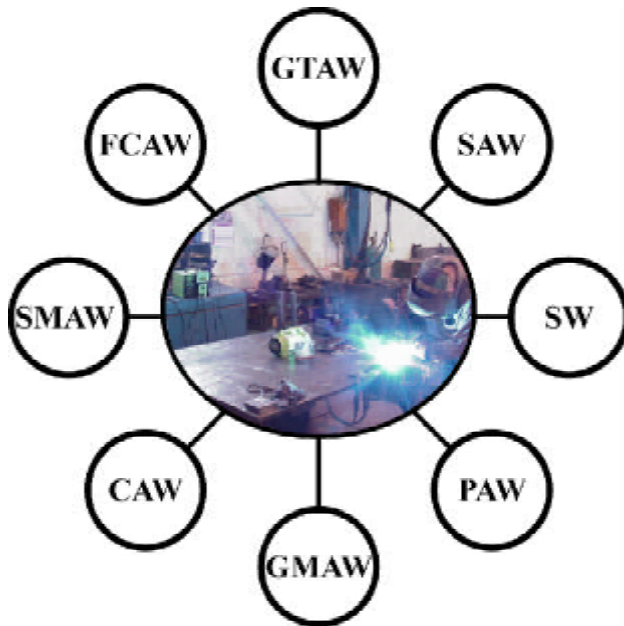
Welders Do It Better With Pulse Puddle Arc Welding

the introduction:

Pulse Puddle Arc Welding (PPAW) pulsates the weld puddle while the weld metal is being deposited.

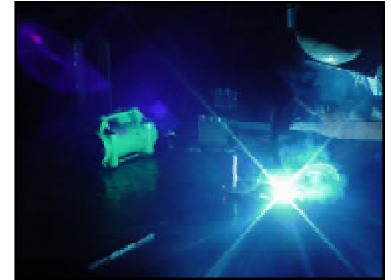
The idea of pulsating a liquid as it is being poured and solidifying is not new. This has been used for years in pouring cement, castings, cake batter (chocolate works best), dental prostheses and other applications.

Arc Welding Processes Applicable for PPAW



the technology:

In contrast to pulsating the "current," the patented PPAW pulsates the "base metal" as the molten weld metal is deposited. This allows for an optimized energy level to pulsate the puddle. This is unique and perfect for the treated weldment.



PPAW provides a finer grain structure with a more homogeneous mix creating fewer columnar structures, which in turn improves the weld metal's mechanical properties.

PPAW is used to compliment "metal added" welding processes to produce higher quality welds.

The PPAW equipment is designed affordable, which allows for a setup at each weld station, as well as for field applications. All of this makes PPAW the welder's best friend, and you will understand why ...

"Welders Do It Better With Pulse Puddle Arc Welding."

the procedure:

PPAW is a simple procedure that can be adapted to most arc welding processes. The pulsator is attached to a welding table or directly on a weldment. The sensor, to determine the pulse strength, is also attached.

The welder, using the wand, adjusts and sets both the pulse rate and strength, which can vary from weldment to weldment.



Then weld like never before!

Why the Welding Industry Needs PPAW !!!

- * 25% increased weld speed
- * 90% less weld cracking
- * 90% less weld distortion
- * 77% higher impact strength
- * 400% higher ductility

Additional benefits include reducing most weld problems like; porosity, incomplete penetration, undercutting, and spatter.

AFFORDABLE, at 200% ROI annually, you can equip all your weld stations to gain these benefits.



Pulse Puddle Arc Welding (PPAW) the second side

Welders Do It Better With Pulse Puddle Arc Welding



the additional pertinent information:

the savings:

25% less welding time
Minimal or no straightening
Reduced scrap rate

the payoff:

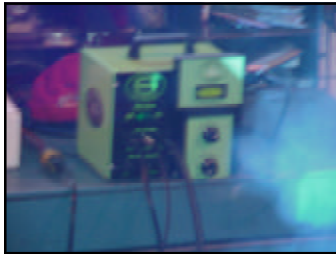
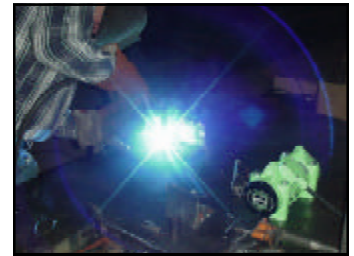
200% or more ROI / year



the proof:

the U.S. DoE Reports:
Mild steel welds, weld joint strength;

Normal 45,800 psi (310 MPa)
PPAW 86,500 psi (596 MPa)
89% Stronger



the name dropping:

NASA * U.S. Navy
General Motors * DoE
John Deere * Purdue
Hundreds More

Your Name Goes Here!!!



the feedback:

25% faster welding
90% less weld cracking
90% less welding distortion
77% better impact strength
400% higher ductility

the equipment:

the box:

All front panel controls, connectors, and breakers, for ease of use and accessibility.

Top mount handle for easy transporting around the shop or can be used for wall mounting.

Power: 110 or 220 volts;
50/60 Hz;
1.1 KVA

Size:
11" x 11" x 8 1/2"
Weight: 26 lbs.



the wand:

The unique wand contains the pulsator's all in one "speed and level" meter, along with the pulsator speed adjustment and the sensor's level adjustment controls.

Size: 9" x 5 1/4" x 1 1/2"
Weight: 1 lbs.

the sensor:

The patented sensor is mounted to the workpiece and picks up the pulse strength from the part then sends it back to the box and the wand enabling the operator to zero in on the proper pulse rate for welding.

Size: 1.5" hex x 4.5"
Weight: 1 lbs.



the pulsators:

Available in four different sizes to treat weldments up to 40,000 lbs. P2, P3, & P4 have adjustable settings. P4 also comes standard with a mounting plate.

See price list for specific weight ranges.



the place to place your order:



"Visit my web site at www.pulsepuddle.com to learn more about how welders do it better with pulse puddle arc welding."

