Ultra-precision Mold
Padding Welder

WELD PRO SW-V02

Patent No. 6712967

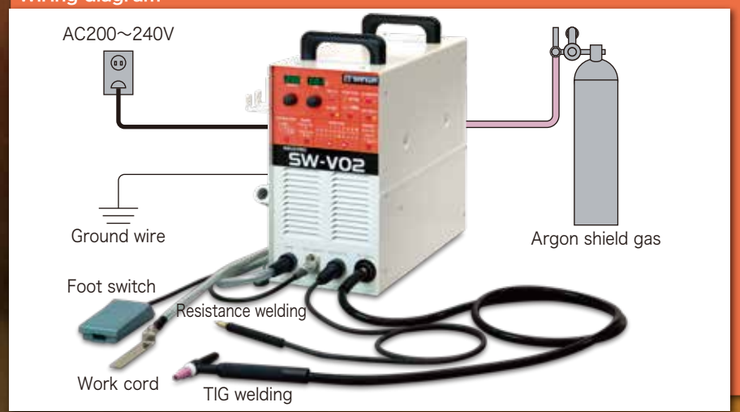
SANWA

Configuration

1. Gas hose
2. Foot switch
3. Torch cord for TIG welding
4. Tungsten electrode for TIG welding ϕ1.6㎜
5. Hand piece for resistance welding : for ϕ2 / 3㎜
6. Output cord for resistance welding
7. Work cord

※ Please prepare a gas pressure adjuster separately.

Wiring diagram



Broad Application Range

■Plastic mold ■Die casting mold ■Press mold ■Glass mold
■Blow mold ■Rubber mold ■Copper alloy mold etc...

Diverse Purposes

■Parting line part, slide edge areas where shocks are applied
■Pin-gate areas, tunnel-gate areas
■Repair of ejector-holes, thin edge areas
■Smoothing pinholes and surface depressions after argon welding
■Padding after electric discharge machining, nitriding, and tufftride processing

Welding Materials

	Wire 5m								Hard-ness HRC
	ϕ1.6	ϕ1.2	ϕ0.8	ϕ0.6	ϕ0.4	ϕ0.3	ϕ0.2	ϕ0.1	
NAK-80	●	●	●	●	●	●	●	●	40~42
NAK-55	●	●	●	●	●	●	●	●	40~42
HPM-50	●	●	●	●	●	●	●	●	40~42
HPM-38	●	●	●	●	●	●	●	●	52~55
HPM-2			●	●	●	●	●		28~31
STAVAX	●	●	●	●	●	●	●	●	52~55
RIGOR			●	●	●	●	●		52~55
IMPAX			●	●	●	●	●		30~33
NICKEL			●	●	●	●	●		15~20
S50C(5m)			●	●	●	●	●		28~32
SKD-61			●	●	●	●	●		40~42
SKD-62			●	●	●	●	●		46~48
COL-1※			●	●	●	●			42~45
MAS-1	●	●	●	●	●	●	●	●	28~30
SKD-11			●	●	●	●	●		55~57
SKH-51			●	●	●	●	●		60~62
Nitriding	●	●	●	●	●	●	●		18~20
Copper Alloy			●	●	●				------
Aluminum1000			●	●	●				------
Aluminum5000			●	●	●				------

※COL-1 is cobalt-free.

Specifications

	Resistance welding	TIG welding
Input Voltage	Single Phase AC200~240V 50/60Hz	
Rated Output Current	10.4 kVA(Peak value) 2.8 kVA(Average value)	
Maximum Voltage of No-Load	----------	approx.76V
Output Current	30~750 A	2~250 A
Welding Time	1~30ms	1~600ms
Repetition Period	400ms	0.1~2.0s
Applicable Wire Size	ϕ0.1~2.0㎜	
Control Method	Inverter Method	
Cooling Method	Forced air cooling (With protection circuit by temperature detection)	
Dimensions	W 204 X D 425 X H 390 (㎜)	
Weight	23.8kg	

●The design and specifications are subject to change without prior notice for product improvement.

⚠ Safety Remarks

The operation, maintenance, and inspection of this product must only be conducted by a specialist thoroughly familiar with the product.

Manufacturer And Seller

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Ultra-precision Mold
Padding Welder

WELD PRO
SW-V02

The Mission of V

Ever-Advancing Evolution

SANWA SHOKO CO.,LTD.

WELD PRO SW-V02

Ultra-precision Mold Padding Welder

Advanced Welding Navigation

that leads ultra-high precision welding to a higher dimension

TIG Welding + Resistance Welding

High performance welder

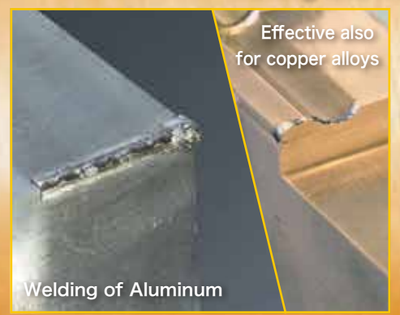
Responding to skills of experienced welder, while supporting beginners

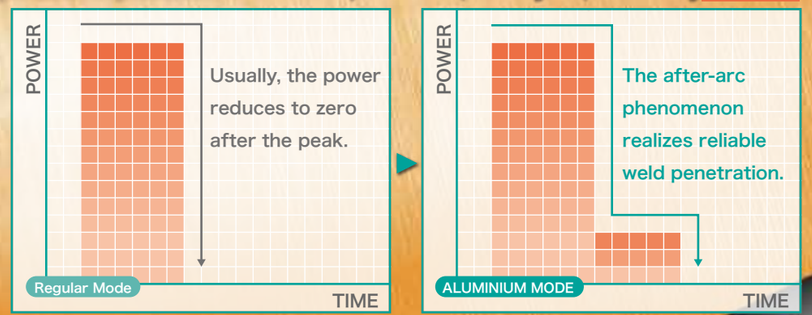
The WELD PRO SW-V Series models have evolved where the functions of TIG welding that enables ultra-high precision and resistance welding that is convenient for tentative fixing and simple repair are integrated into one welding machine. The series models feature the more user-friendly Weld Navigation that leads precision welding to a higher dimension, and the Aluminium Mode that enables precision welding of aluminum that is currently assumed to be difficult. Furthermore, the varieties of functions that assist the various scenes of welding support beginning welders, and high-level performance that has been accumulated after each version upgrade responds to the skills of experienced welders. Why don't you physically feel the sophistication and the evolution that open up a new era in ultra precision padding welding machines?

ALUMINIUM MODE

Making the impossible possible

Considering the characteristics of aluminum where rapid heat diffusion is generated, more reliable weld penetration has been achieved by activating precision inverter control to slightly generate the after-arc phenomenon (remaining heat) after melting. **Patented**



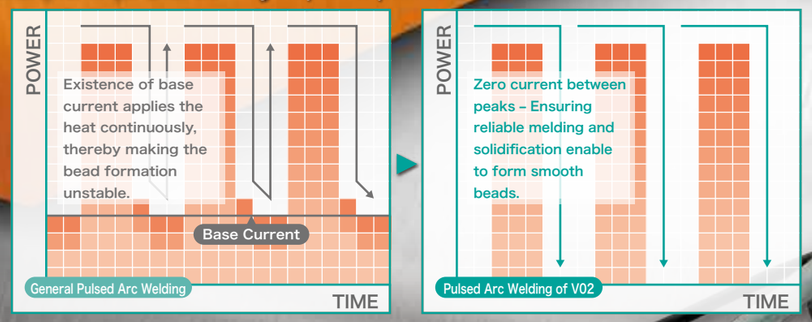


PULSING

Achieving the zero base current,

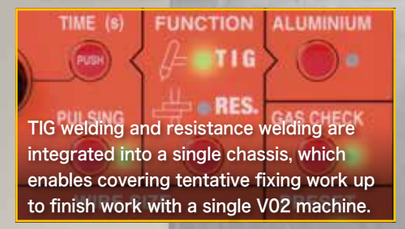
thereby ensuring stable welding for longer distance.

For general pulsed arc welding, the base current exists between peaks, and continued heating causes shrinkage and deformation. With our Model V02, smooth, even beads can be formed by reducing the peak-to-peak current to zero.



FUNCTION

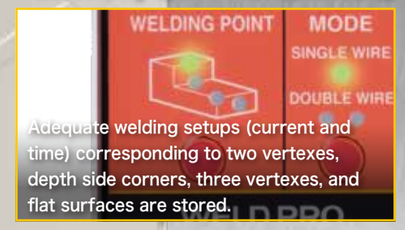
Combined use of TIG & RES.



TIG welding and resistance welding are integrated into a single chassis, which enables covering tentative fixing work up to finish work with a single V02 machine.

WELDING POINT

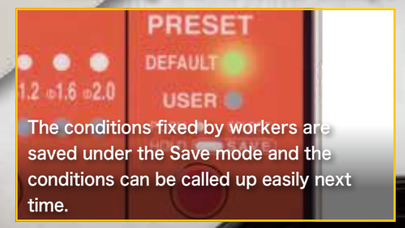
Easy calling up of the adequate setup



Adequate welding setups (current and time) corresponding to two vertexes, depth side corners, three vertexes, and flat surfaces are stored.

PRESET

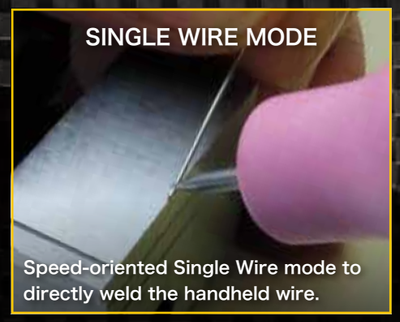
Presetting the favorite setups



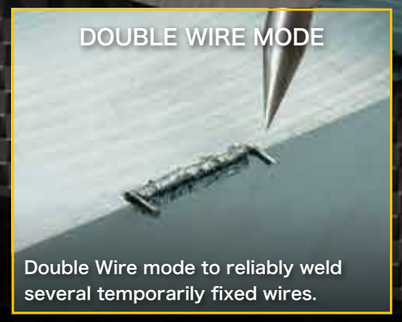
The conditions fixed by workers are saved under the Save mode and the conditions can be called up easily next time.

SINGLE•DOUBLE WIRE

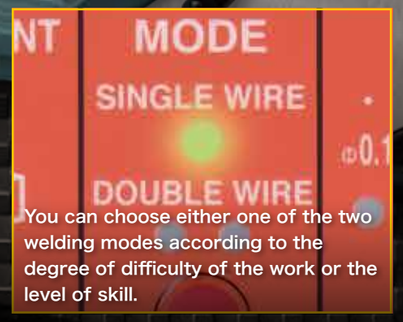
Two setting modes selectable according to welding methods



Speed-oriented Single Wire mode to directly weld the handheld wire.



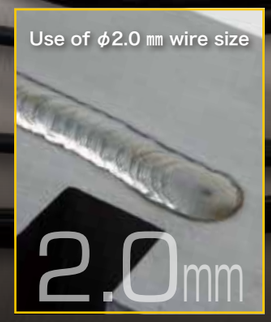
Double Wire mode to reliably weld several temporarily fixed wires.

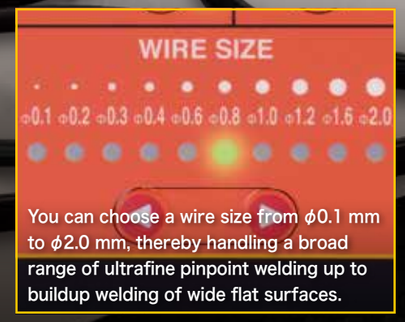


You can choose either one of the two welding modes according to the degree of difficulty of the work or the level of skill.

WIRE SIZE

From ultra-fine welding material to buildup welding





You can choose a wire size from ϕ0.1 mm to ϕ2.0 mm, thereby handling a broad range of ultrafine pinpoint welding up to buildup welding of wide flat surfaces.