

► **Combi-Welder WELD PRO SW-V 01**

Technical data		
	Resistance welding	TIG welding
Input voltage	Single phase AC 200/230 V 50/60 Hz	
Rated output current	10,4 kVA (Peak value); 6,3 kVA	
Maximum voltage of no-load	–	approx 76 V
Output current	30 – 750 A	2 – 250 A
Welding time	1 – 30 ms	1 – 600 ms
Repetition period	400 ms	0,1 – 2,0 ms
Pre gas flow	–	0,30 sec
Post gas flow	–	1 – 5 sec
Control method	Inverter method	
Cooling method	Forced air cooling	
Dimensions	204 (W) x 425 (D) x 390 (H) mm (without grip)	
Weight	23,8 kg	

**Accessories** (Full particulars see general catalogue)



- 1 Tool box
- 2 Foot switch
- 3 Gas hose
- 4 Hand tool, turnable
- 5 TIG welding torch with collet of 1,6 mm
- 6 Earthing pad
- 7 Silver-Tungsten electrodes for resistance welding
- 8 Tungsten electrodes for resistance welding,  $\varnothing 1,6$  mm
- 9 Scissors for metal cutting and various consumable material

\* Pressure regulator is necessary (Options)

**Welding material**

**For resistance welding**

Powder, wire, plates, steel wool, compressed steel wool

**For TIG welding**

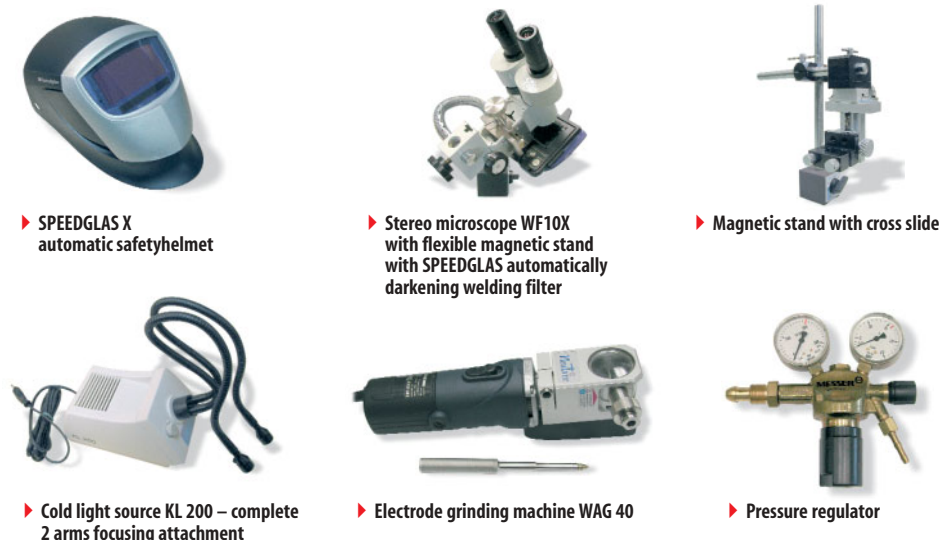
Wires with corresponding structure 0,1 – 0,8 mm

Wires with similarly reacting structure 0,2 – 1,2 mm

(Full particulars see general catalogue)



**Optional accessories** (Full particulars see general catalogue)



**NOVAPAX**

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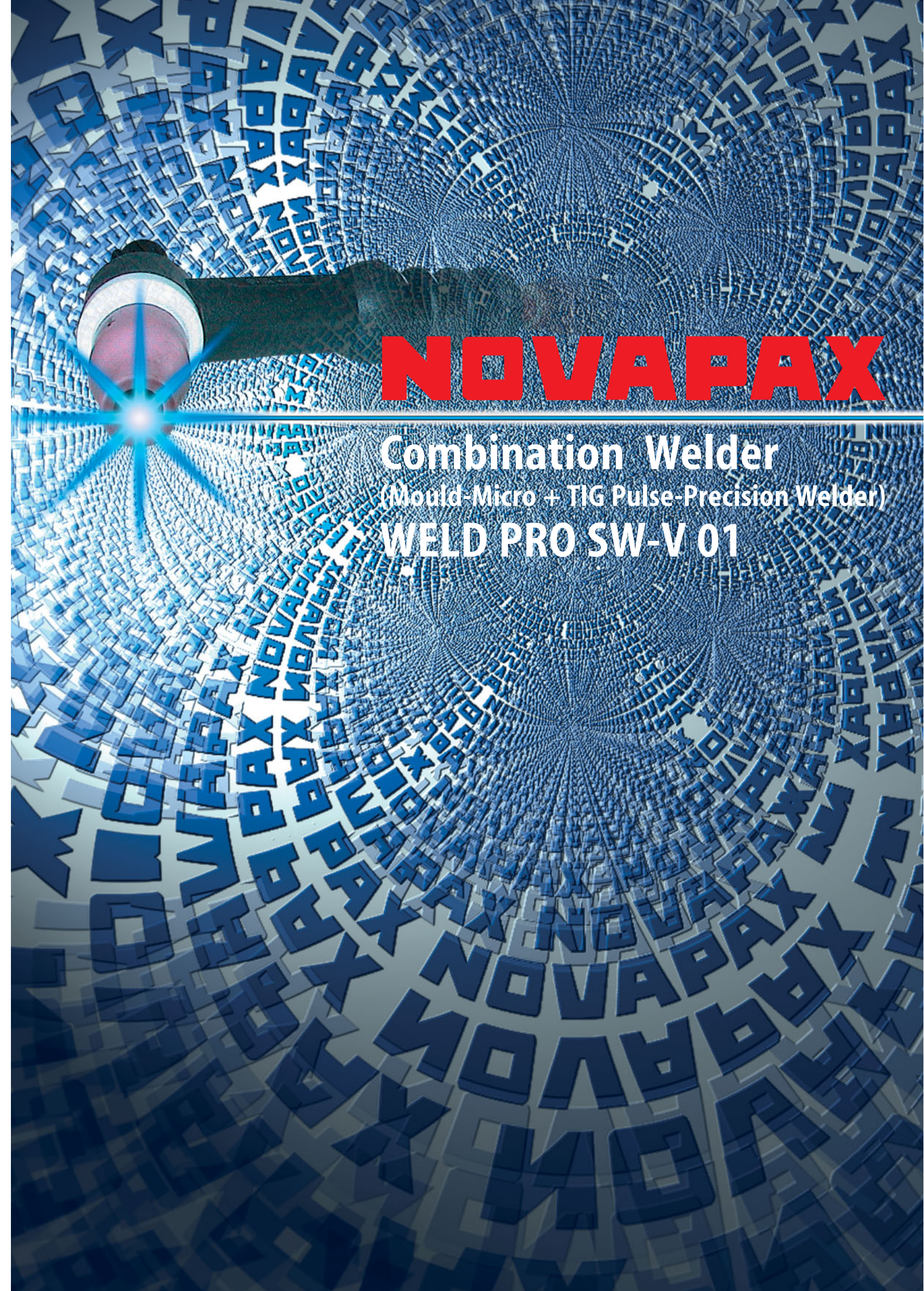
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The operation, maintenance and inspection of this welder must only be carried out by skilled. Technical modification are reserved to the maker.





# Combi – Welder WELD PRO SW-V 01

**NOVAPAX**  
CE

- **Precise repairs with an easy to handle combi – welder of the latest generation.**  
**All-purpose for any repair and modification in plastic and die casting mould.**

The three functions of resistance welding and pulsed TIG welding and ultra precise continuous TIG welding are integrated into one.

Five new additional functions are available so the welder can support manifold uses. The minimum current for the TIG welding has been reduced to 2A. The ultra precision mode (FINE mode) allows high precision fine welding.

Due to the easy-to-use characteristics and high welder output the WELD PRO SW-VO1 gives room for solutions for nearly all applications in mould making and is a real cost-saving alternative for utilisation of Laser welding shops.



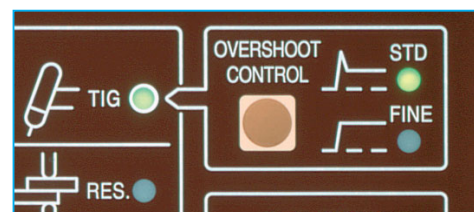
- **All-purpose usage**

- **Assured resistance welding and precise TIG welding**

The inverter control allows a precise and reproducible setting of the welding current and welding time. For the resistance mode the welding current can be set from 30A to 750A and the welding time from 1msec to 30 msec. For the TIG mode the welding current can be set from 2A to 250A and the welding time from 1 msec to 600 msec.

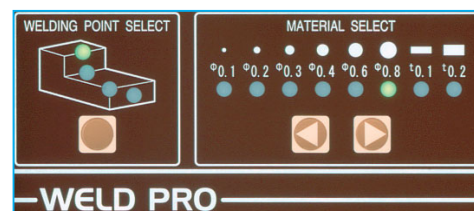
- **5 new functions**

- **Ultra precision mode**



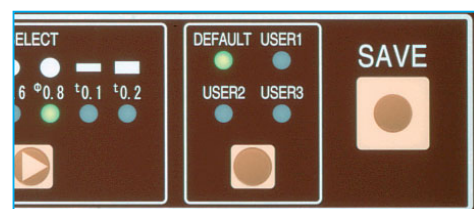
With the TIG-FINE mode it is possible to weld smallest inserts with a minimum of heat influence, as the starting power reaches just a peak of 15A.

- **Automatic welding navigation**



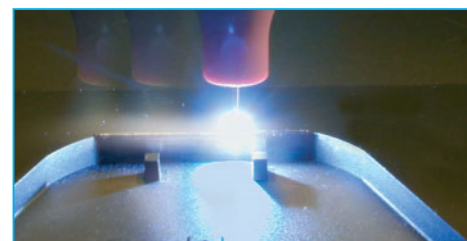
Welding current and welding time are automatically set by the welding area, shape and diameter of the welding material.

- **Data memory mode**



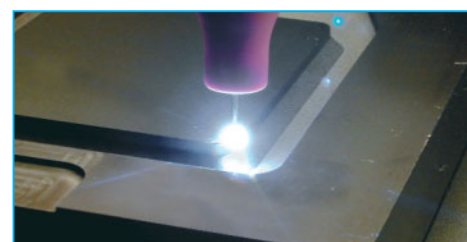
With the SAVE mode data of the welding conditions, fixed by the operator can be stored under USER 1-2-3 and recalled.

- **Continuous TIG mode**



When a large area has to be welded, the continuous interval set-up with adjustable weld- and pause times allows automatic pulsation up to a permanent arc.

- **Lead arc**



By emitting a minute arc (2A) to the welding target, it is possible to weld even more precise.

- **Field of applications**

- Injection moulding
- Die casting
- Press moulding
- Blow moulding
- Rubber moulding

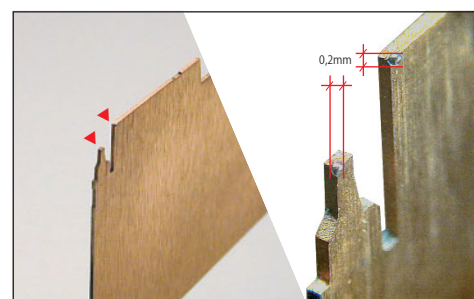
- **Diverse purposes**

- Areas of parting lines, impact loaded slide edges
- Pin-gate areas, tunnel gate areas
- Repair of ejector-holes, thin edge areas
- Smoothing pinholes and shrink holes after conventional TIG welding
- Size allowance within mould alterations

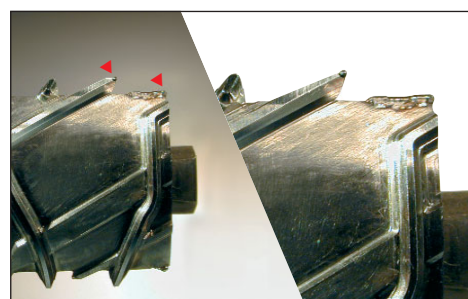
- **Various kinds of processing after welding are possible**

After welding different kinds of processing are possible, like EDM (Electrical discharge machining), grinding, milling, sand blasting, coating, as well as heat treatment and nitriding.

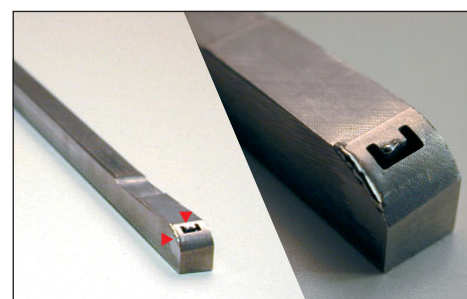
- **Repair examples**



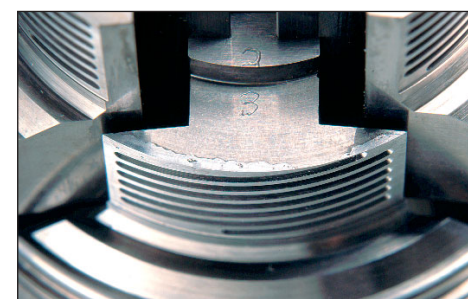
- **Miniature insert from the electrical industry**  
Usage of the super precise mode



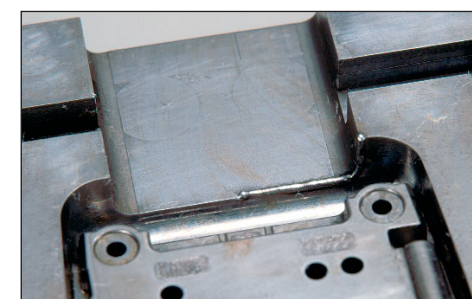
- **Thread runouts and thread edges (Optical industry)**  
Usage of the super precise mode



- **Welding of openings with little distance of the edges**



- **Polished lens barrel (Thread area)**



- **Mobile telephone plug-in unit**



- **Surface and corner of a copper alloy mould**