AIR-COOLED MICROWELDING

-HIGH SPEED SPOT WELDING-

POWERFUL - ACCURACY - FAST - SAFE

WS welding stations are revolutionizing the air-cooled repair welding of tooling. Thanks to their unique medium frequency technology, they combine a disconcerting ease of use with excellent quality results and productivity.

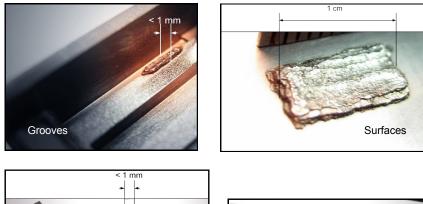
With a rate of 50 pulses per second, a very high maximum power, millisecond-long welds and extremely precise current regulation, they enable you to obtain optimal weld quality, very close to laser quality, be it in terms of aspect or resistance, even to extreme stress (shock, shear, pressure, thermal shock, erosion, etc.).

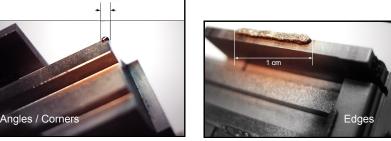
WS micro-welding devices are the perfect solution for fast, simple and long-lasting quality repair welds of the following tooling:

- Rubber injection
- Plastic injection
- Compression
- Aluminum foundry
- Zamak foundry
- Extrusion
- Cutting
- Embossing
- Blowing

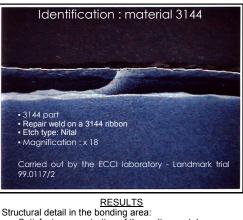


TYPICAL APPLICATIONS









Structural detail in the bonding area: • Satisfactory penetration of the molten metal View of assembly weld on polished metal : • A few folds can be detected on the surface



TECHNICAL CHARACTERISTICS

Model	WS 5100S	WS 7000S	WS 10000	WS 10000S	
Power supply		1~220 V / 50 Hz / 60 Hz			
Converter type	5kHz medium frequency				
Maximum welding power (1)	7.3 kW	10 kW	14.4 kW		
Maximum welding current (2)	2000 A	2800 A	4000 A		
Open circuit voltage U20		3.6 V			
Control type		Current regulation			
Maximum weld time		250 ms			
Minimum weld time		1 ms			
Current precision		8 A			
Generator cooling		Forced air			
Cable cooling	Forced air	Forced air through fast electric connection / compressed air through cone			
Size		L 420 mm x W 240 mm / H 280 mm			
Weight	18	18 Kg 19 Kg			
Programming		9 adjustable programmes			
Adjustable settings	• Weld • Weld	 Welding current in % Weld time in milliseconds Weld cycle / shoot mode (Single- or multi-point) Pulse form (Powder / Wire - Ribbon) 			
Maximum pulse rate		16		50	
Maximum welding capacity (3)	0.8 / 0.2	1 / 0.3	1.2	1.2 / 0.4	
Accessories and options	 Rota Cool 	 Rotating welding torch / cooled Ø 70 mm² Rotating welding torch / cooled Ø 35 mm² Cooled earthing cable Ø 70 mm² Mini welding torch Ø 16 mm² / Electrode holder Ø 2 and 5 mm 			

(1) Measured at standard cable ends (2) Measured in short-circuit at machine output (3) Tests carried out with larger accessories

BENEFITS

- Simple set-upNo overheating
- No deformation, feathers, shrinkage, etc.
- Discreet welds even in visible areas
- · For use on all ferrous materials
- Great for hard-to-access areas

ACCESSORIES

- · Perfectly homogenous and resistant welds
- Extreme precision Weld hardness: 36 to 62 HRC
- Safe and easy to use no projection
- No protection required
- No arc or smoke
- Deal for on-site operations (no high-frequency
- current)



The full range of WS accessories is available online at: www.sstmicrowelding.com

SST MICROWELDING

INNOVATIVE SOLUTIONS FOR MICROWELDING - WELDING AND MARKING

