Arc studwelding units : MICROMARK

This line of stud welding equipments is a unique, microprocessor-controlled stud welding system with great versatility and near-perfect reliability. Features include: Precise regulation and duration of weld current, immediate digital verification of all weld parameters, diagnosis of weld and system deviations, self-monitoring system... In other words, you'll get a perfect weld every time - or no weld at all. And in either case, you'll know why.



Standard Features

- The High Level Digital Advantage Possibly the most popular feature of the MicroMark series. Our microprocessorbased systems are proven to be more reliable and repeatable than conventional systems, since the equipment itself monitors, controls and display the quality of each weld it makes. Features include: diagnosis of each weld and system deviations, self-monitoring system, current & voltage tolerance ranges adjustable, large display, Lift check mode (lift & plunge time measurement), permanent record of 400 last welds parameters.
- **Communication** This allows an external device to download all weld parameters and functions of the welder. There are two different schemes supported:

Powerful control scheme using RS-232 communication for downloading weld parameters. (PC or Printer)
 A PLC can achieve sophisticated control of the welder using discrete I/0 lines (optional features). This can include changing weld schedules, identifying specific errors and collecting welds quality data, etc.

- **Pilot arc Adjustment :** The Pilot Arc is the part of the weld sequence, which starts the arc. Typically this setting does not need to be adjusted. However, there are some special circumstances where it is beneficial to adjust it.
- Hammer mode assists in penetrating rust, mill scale or even paint.
- **Multi-Gun** is the ability to expand with multiple output ports. This is beneficial when there is a need for multiple stud sizes that a single operator must install.
- **Memory Presets** The memory preset module (9 memories) can store ALL information related to a weld schedule. This includes the main weld current parameters, programmable pilot arc, gas mode and limits.
- Feature Locking Eliminates concerns about unwanted parameter adjustments. This feature can lock all, some or none of the MicroMark features. To access a locked feature, a password must be entered.
- Maintenance Tracker This feature counts the actual number of welds. The user can set an alert or notification point

Additional Standard Features

 Measurement of lift & drop time welding guns, integrated self-protective device in case of excess temperature, phase failure control, weld counter, multilingual operator guidance, function tests without welding, ...

Optional Features

- **Auto Feed** The MicroMark series welders have been designed with auto-feed in mind. The power supply directly controls the gun and the feeder bowl. This can work with hand held, production or robotic applications.
- Integrated Gas Arc This allows for welding using shielding gas instead of flux and ferrule combination. Gas arc is also required for welding alloys such as aluminum. Pre-flow and Post-flow values are controlled.

Specifications

MICROMARK 900

MICROMARK 1400

MICROMARK 2100

MICROMARK 2500



(Photo not contractual)







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Stud Welding Range	:Ø	3 to Ø 12 m	m (M 14)	Ø 3 to	Ø 18	8 mm	n (M 20)	Ø 3	to Ø 22	2 mm	(M 24)	Ø 3 1	to Ø 25	mm	ı (M	30)	
Short Cycle Range	: M	: M 3 to M 8			M 3 to M 10				M 3 to M 12			M 3 to M 12					
Weldable material	: M (A	 Mild Steel / Stainless Steel (Aluminum with inert gas) 			Mild Steel / Stainless Steel (Aluminum with inert gas)				Mild Steel / Stainless Steel (Aluminum with inert gas)				Mild Steel / Stainless Steel (Aluminum with inert gas)				
Current/Time control	: Di	: Digital adjustment			Digital adjustment				Digital adjustment			Digital adjustment					
Stud welding current	: 10	: 100 A to 900 A			100 A to 1.400 A				100 A to 2.100 A			100 A to 2.500 A					
Stud Welding time	: 12	: 12 to 200 mS (Short Cycle)			12 to 200 mS (Short Cycle)			12 to 200 mS (Short Cycle)			12 to 200 mS (Short Cycle)						
	: 50	0 to 1400 mS	6 (Drawn Arc)	50 to	1400	mS	(Drawn Arc)	50	to 1400	mS	(Drawn Arc)	50 to	3000	mS	(D	rawn Arc)	
Duty cycle	: P[D M 10 :	9 studs / min.	PD M	1 10	: 3	30 studs / min	. PD	M 10	:	- studs / min.	PD	M 10	:	- s	tuds / min.	
	P	D M 12 :	5 studs / min.	PD M	1 1 2	: 1	12 studs / min	. PD	M 12	:	49 studs / min.	PD	M 12	:	114 s	tuds / min.	
				HSC Ø	ð 16	:	3 studs / min	. HSC	CØ16	:	12 studs / min.	HSC	Ø 16	:	23 s	tuds / min.	
								HS	CØ19	:	5 studs / min.	HSC	Ø 19	:	13 s	tuds / min.	
								HS	C Ø 22	:	3 studs / min.	HSC	Ø 22	:	7 s	tuds / min.	
												HSC	Ø 25	:	4 s	tuds / min.	
Incoming power	: 23	30 V - 50 A /	400 V - 40 A	230 V	- 63	A / 4	400 V - 50 A	230) V / 400) V - (53 A	230	V - 125	5 A /	400 ۱	√ - 80 A	
Size (w x h x l)	: 34	: 340 x 510 x 600 mm			425 x 720 x 770 mm				520 x 730 x 820 mm				650 x 950 x 1100 mm				
Protection	: IP	: IP 21			IP 21				IP 23				IP 21				
Insulation Class	: 1	: 1			1				1				1				
Weight	: 89	: 89 Kg			159 Kg				245 Kg				450 Kg				
Optional	: Sł	Shielding gas module			Shielding gas module				Shielding gas module				Shielding gas module				
	Au	utomatic feec	ding module	Automatic feeding module			Aut	Automatic feeding module			Automatic feeding module						
				Extended I/O module			Ext	Extended I/O module			Extended I/O module						
				2 to 4 outputs			2 o	2 outputs				2 outputs					





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