

MicroMag 302 MFK





MicroMag 302 MFK Multi Process Portable Synergic



302 MFK: Applications

- · Thanks to its dimensions and the ratio weight/ power duty/ cycle 302, MFK is the best option on the market, for small and medium workshops, ideal for table welding and car body repair.
- Easy to transport, only 22 kg, it is the best option for maintenance and repair on field, shipyard and off-shore operations.
- MicroMag 302 MFK is designed for welders at all levels and it is ideal machine for colleges and welding schools.





Remote Controls

- · Connector with insulated pins for remote control of welding parameters.
- · Torches with potentiometers and up/down switches can be used as well



302 MFK: Wire Feeder

- · Solid metallic 4 rolls motor drive-system for any type of wire.
- Wire diameters from 0,6 to 1,2mm.
- Wire speed from 2 to 20 meters per minute.
- Wire spools till 300 mm /15 kg.

Integrated phases control

· Net's phases detector led.



Innovative System to clean the machine without opening the external structure body



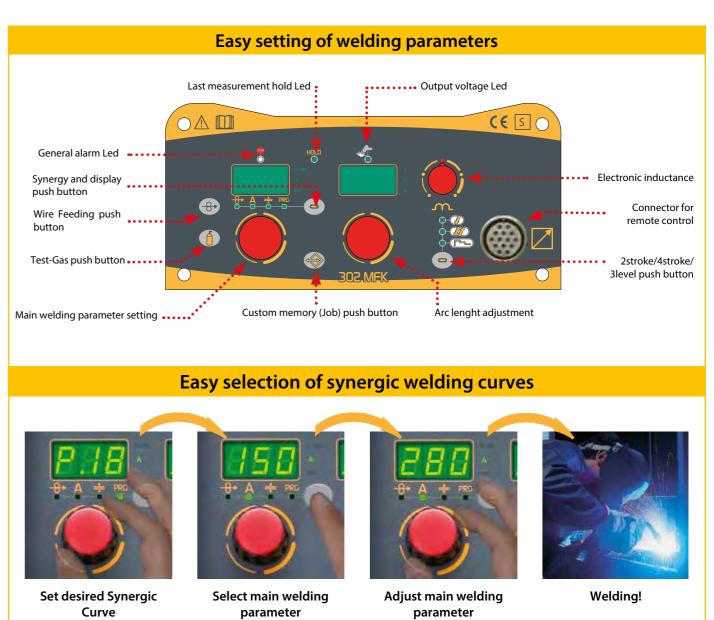


Ventilation grids and ventilators removable to allow an easy cleaning of the heat sink, by means of compressed air.

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- This symbol highlights Weco's constant care for ecological issues and new technologies which have been introduced to reduce the environmental impact.
- MicroMag 302MFK introduce new technological solutions in order to reduce the harmonic current emissions according to the future International Standards, to increase even more the power inverter efficiency.
- The same welding deposit is achieved with less electrical power, less total power and less CO2 emission for the safety of Planet Earth.



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Digital Intelligence Inside

- · Power source functions self-check in real time.
- Synergic programs for many applications available.
- Customized welding parameters.
- Welding operations can be replicated in time.
- · A top quality instrument in certified welding procedures.



Digital Inductance

- · Allows you to optimize arc dynamic in any welding condition.
- Step-less regulation.
- Precise and complete synergic settings.





BURN BACK: An optimal wire cutting at the end of welding helps perfect starts.



SOFT START: Approaching speed of wire and welding dynamics are totally synergic giving low spattering at start, in any type of material.

SPOT WELDING:

Dedicated controls, low spattering and high execution-speed allow you to get perfect welding spots.

Real Synergic Welding (all you need is a knob!)

- 35 synergic programs.
- Optimized programs for Flux Core Wires and high Performance Wires.
- Optimal welding results for welders at all levels.
- Second level menu available for experts.

Synergic programs										
Wire Diameter	0,8	1,0	1,2	1,4						
Display		on the	on the left							
Manual Welding		P	ΩRn							
SG2/SG3 (80%Ar-20%CO2)	P1	P2	P3		FE					
SG2/SG3 (92%Ar-8%CO2)	P4	P5	P6		FE					
SG2/SG3 (100%CO2)	P7	P8	P9		FE					
INOX 308 (98%Ar-2%CO2)	P10	P11	P12		5.5.					
INOX 316 (98%Ar-2%CO2)	P13	P14	P15		5.5.					
AlMg5 (100%Ar)		P17	P18		RL					
AlSi5 (100%Ar)		P20	P21		RL					
CuSi3 (100%Ar)	P22	P23			CU.5					
CuAl8 (100%Ar)					EU.A					
RFCW (80%Ar-20%CO2)			P28	P29	rF[
BFCW (80%Ar-20%CO2)			P30	P31	ЬFC					
MFCW (80%Ar-20%CO2)			P32	P33	NFC					
Free Programs		P3	пРг							



Display, Led and **Knob for Synergic** programs setting.









HAC (Hybrid Arc Control) Flawless Welding Arc

- · Soft and very stable welding arc.
- · Low heat input both in Short and Spray
- Small Globular arc range. Welding is always perfect.
- Low spattering even with a high level of CO₂ mixed gas
- Quality of weld beams is just like the one you have in pulsed welding.
- Inductance and start/finish parameters are optimized in the synergic setting.
- Recommended for special applications like welding on Laser cut sheets without reworking, fillet welds on thin sheets with small deformations, and low residual stress. Accurate when you need to weld plates with relevant gaps...



SPRAY ARC: HAC allows you to have a short spray arc with better penetration of the root, lower heat input and higher welding speed with no edge cutting and spattering.



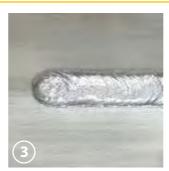
PG POSITION: HAC allows thin plates welding in vertical down position with gap up to 5mm wide.



WELDING POSITION: HAC gives an optimal fusion of the bead's edges in short arc welding and to make overhead and vertical up position welding easier.



THIN PLATES: HAC gives smooth and controlled short arc at lower parameters too. Low spattering, good edge wetting, low heating and small deformation are achieved in thin plate welding.



beads.



the welding optimally by current is optimized with current requested weld.



LEVEL 3: A low current ends LEVEL 2: The welding LEVEL 1: A correct initial gives filling the crater on weld the plate thickness and the penetration from welding start.



3T SPECIAL: Allows you to set and recall 3 different current levels by pushing the trigger switch in order to achieve top quality weld beads: Highly recommended for Aluminum welding.

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MMA Up to 5 mm electrodes in MMA Adjustable Arc Force and Hot Start





MIG MAG MIG MAG welding system allows High productivity and flexibility





TIG DC LIFT Lift Tig ignition to reduce tungsten

inclusions















Industrial assembly Maintenance and servicing Naval shipbuilding industry Used in car-body shops **Electro-mechanical assembly** Agricultural machine servicing Air conditioning plants **Hydraulics**

Pipe welding

Window and door frames

Fabrication

Schools & Colleges

MicroMag 302 MFK											
D₽>	3x400Vac ± 15% @ 50-60Hz										
	16A										
	MIG-MAG			TIG - WIG			MMA				
% 40°C	35%	60%	100%	50%	60%	100%	40%	60%	100%		
► I₂	300A	230A	200A	250A	240A	210A	250A	220A	190A		
% _{RT}	-	60%	100%	-	-	100%	-	-	100%		
▶ 1 2	-	300A	250A	-	-	250A	-	-	250A		
I ₂	5A - 300A			5A - 250A			5A - 250A				
U₀	11/60V										
P _{MAX}	10,3KVA -9,7KW										
IP	235										
14.	560 x 280 x 390mm										
ට්රී8	21,0Kg										







Distributor: