

# FACT SHEET

## Microplasma-2 / Microplasma-2 PG

all in

- / Plasma-DC
- / Plasma-Puls
- / TIG-DC
- / TIG-Puls



Cool 50 MPW50



Comfort 2.0 P



### TWO VERSIONS AVAILABLE:

#### Microplasma -2:

- Standard gas metering unit for plasma and shielding gas
- Setting range plasma gas 0.1 l/min to 0.9 l/min
- Setting range shielding gas 1.0 l/min to 17 l/min

#### Microplasma -2 PG:

- Hysteresis-free precision gas metering unit for plasma gas and shielding gas with 15-turn control valves for precise setting of the flow rate. Recommended for precision welds also in the lower power range
- Setting range plasma gas 0.1 l/min to 1.1 l/min (tolerance +/- 2% from final value)
- Setting range shielding gas 3.5 l/min to 20 l/min (tolerance +/- 2% from final value)

### FUNCTIONS

- Plasma and TIG welding
- Plasma and pulsed TIG welding
- Plasma and pulsed TIG welding up to the kHz range allow a high welding speed with minimal heat input using a constricted arc
- Plasma and TIG welding current adjustable in 0.1 A increments
- Pilot arc current separately adjustable for start phase, welding phase, end-crater and welding break
- Non-latched/latched operation
- Spot welding/tack function (spotArc/spotmatic)
- Spotmatic – reduce the time required for tacking by up to 50% (TIG only)
- Adjustable up-slope and down-slope time
- Adjustable gas pre- and post-flow time

### YOUR BENEFITS

all in


No need to purchase additional characteristics – all characteristics for this machine type are included in the scope of delivery ex works


- Non-interchangeable connections for all mediums
- Welding torch connection using quick connect coupling
- Connection capability for remote control
- Two system bus connections (e.g. for ewm Xnet)
- All control elements and connections for welding torches, remote controls and workpiece leads are directly accessible on the front of the machine
- Temperature, flow and pressure monitoring for the coolant circuit
- Mobile with Trolley 55-6 for microplasma and Cool 50 MPW50
- Cool 50 MPW50 uses microplasma power supply
- Alternatively, a separate recooling unit can be used (The recooling unit does not fit beneath the microplasma unit and not onto Trolley 55-6)
- Optional network connectivity with ewm Xnet software via LAN or WiFi gateway
- 3.5 m mains supply lead with 16 A shock-proof plug


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## Microplasma-2 / Microplasma-2 PG

### TECHNICAL DATA

Typ	Microplasma 25-2 Microplasma 25-2 PG	Microplasma 55-2 Microplasma 55-2 PG	Microplasma 105-2 Microplasma 105-2 PG
Setting range for welding current	0,3 A - 20 A	0,3 A - 50 A	0,3 A - 100 A
Duty cycle 40 °C	20 A / 100 %	50 A / 100 %	100 A / 60 % 70 A / 100 %
Open circuit voltage	95 V		
Mains voltage	1 x 230 V (-40 % bis +15 %)		
Mains frequency	50 Hz / 60 Hz		
Recommended generator power	2 kVA	4,2 kVA	7,8 kVA
Protection classification	IP23		
Safety marking			
EMC class	A		
Dimensions (L x B x H)	625 mm x 377 mm x 531 mm		
Weight	ca. 36 kg		
Standards	IEC 60974-1, -3, -10 CL.A		

Cooling unit	Cool 50 MPW50
Mains voltage	1 x 230 V
Mains frequency	50 Hz / 60 Hz
Cooling capacity at 1 l/min.	1 kW
Pump pressure	3.5 bar
Tank capacity	5.5 l
Protection classification	IP23
Safety marking	
Dimensions (L x B x H)	695 mm x 298 mm x 329 mm
Weight	14.3 kg
Standards	IEC 60974-1, -2, -10 CL.A

 You can find the all of the product's technical data in the "Technical Data" chapter of the operating instructions.

### ITEM NUMBERS

Typ	Designation	PU	Item number	PG	Price
Microplasma 25-2	Microplasma welding machine with standard gas metering unit	1	090-007030-00502	M1	6.585,00 €
Microplasma 55-2		1	090-007031-00502	M1	6.795,00 €
Microplasma 105-2		1	090-007032-00502	M1	7.005,00 €
Microplasma 25-2 PG	Microplasma welding machine with precision gas metering unit	1	090-007036-00502	M1	7.615,00 €
Microplasma 55-2 PG		1	090-007037-00502	M1	7.825,00 €
Microplasma 105-2 PG		1	090-007038-00502	M1	8.035,00 €
Cool 50 MPW50	Cooling unit with centrifugal pump	1	090-008818-00502	M1	1.195,00 €
Trolley 55-6	Transport cart for a power source, cooling unit and two shielding gas cylinders	1	090-008826-00000	M1	690,00 €
RK 1	Recooling unit	1	094-002283-00000	A1	3.219,00 €
PHW 20 3 m 5P <sup>1)</sup>	Plasma welding torch	1	394-003872-00000	A3	1.149,00 €
PHW 100 3 m 5P <sup>2)</sup>	Plasma welding torch	1	394-003843-00000	A3	1.176,00 €

<sup>1)</sup>PHW 20 suitable for Microplasma 25-2 / 25-2 PG

<sup>2)</sup>PHW 100 suitable for Microplasma 55-2 / 55-2 PG / 105-2 / 105-2 PG



For compatible welding torches, other accessories and complete information about the respective welding machine, visit our online shop at [https://www.ewm-sales.com/de/Plasma\\_Schweissgeraete--6423.html](https://www.ewm-sales.com/de/Plasma_Schweissgeraete--6423.html)