









TIG

made in italy **SINCE 1950**











MATRIX X HF

THE ULTIMATE SOLUTION FOR DC TIG

TIG INVERTER WELDING EQUIPMENT

MATRIX X HF are high efficiency TIG HF inverter power sources, studied to satisfy the most advanced and sophisticate request in the TIG welding market.

MATRIX X HF enable TIG welding of mild and stainless steel, copper and its alloys and they also offer excellent performance in MMA welding with the most difficult basic and cellulosic electrodes.





X Vision interface

MATRIX X HF are standard equipped with the new X VISION interface, simple and complete, for the total control and monitoring of all the welding parameters. Their excellent characteristics, coupled with the high technology of the digital control, allow a perfect stability of the welding arc, granting high performance TIG welding in the more sophisticated industrial applications and maintenance.





Single phase with PFC available

Thanks to PFC the single phase MATRIX X 220 HF optimizes the amount of energy consumption by allowing the use of this powerful power source with 16 A fuse mains and power generator sets.

Other characteristics

- TIG DC minimum current from 1A
- Excellent welding characteristics in TIG with all material and MMA with any type of electrodes, cellulosic included
- Smart HF IGNITION for a accurate and prompter Arc Striking in all conditions
- Use of Up/Down TIG torches will enable to adjust welding parameters and JOBS
- Reduced weight and size, easy-to-carry
- Compact water cooling equipment integrable (optional)
- Simple automation: TSA1 TIG KIT (Optional)





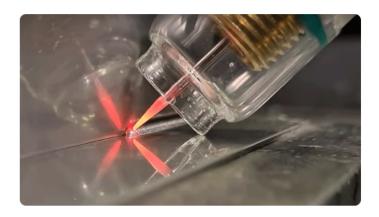
TECHNICAL FEATURES



COLDTACK

Innovative spot welding device to achieve precise and safe joining with a minimal thermal input.

Multi-cold.TACK function grants cold spotting in a rapid sequence, thus further widening the benefits of the single spot. Thanks to Perfect-Point function, cold.TACK allows to obtain the most precise spot positioning.



PULSE MODE

SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current

ULTRA FAST

Adjust frequency up to 2000 Hz

FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz

SLOW PULSE

Adjust separately current/time of peak and base

X VISION CONTROL DISPLAY TIG

X Vision control display with "ONE CLICK KNOB" encoder for the pre-setting and monitoring of all the welding parameters:

- · User friendly interface
- Digital Ammeter and Voltmeter with welding current presetting and Hold Function of the last read value
- Welding mode "cycle"
- · Personalized welding program storing and recalling
- Possibility of copying job/s easily from one machine to another via USB
- · Advance setting infographic



TIG RCT - RUNNING COLDTACK

RCT is the acronyms of Running cold.TACK; indeed, the TIG RCT process allows to benefit of all the cold.TACK advantages, by repeating the single cold.TACK point in a continuous way, in order to achieve a cold and perfect welding seam.

Using TIG RCT the welding seam is much colder in comparison to the one achievable with Pulse TIG and it represents the ideal solution to weld thin materials with a very low heat transfer. TIG RCT is a direct current process not available in AC welding.







CYCLE FUNCTION

"CYCLE" function allows to continuously switch between two current values, by previously preselected simply pressing the torch trigger. This function is most suitable for welding different thickness profiles, requiring a continuous current adjustment change.

MMA FUNCTIONS

Adjustable Arc Force for choosing the best welding arc dynamics. Adjustable Hot Start to improve the arc striking with difficult electrodes Electrode Anti-sticking function.





Available accessories

DISCOVER ALL AVAILABLE ACCESSORIES



HRX 202120



HRX 302115



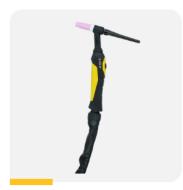
CEA CL-492005A



TROLLEY VT 104929



TROLLEY CT 404931



CEA TORCH TXA 269.262



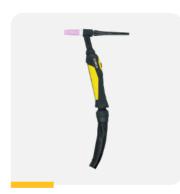
CEA TORCH TXA 26.4
"UP/DOWN"
020662



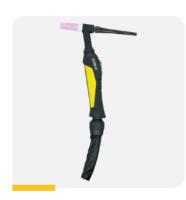
CEA TORCH MINI TXH 20.4020667



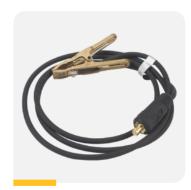
CEA TORCH MINI TXH 20.4 "UP/DOWN" 020680



CEA TORCH TXH 189.472



CEA TORCH TXH 18.4
"UP/DOWN"
020677



35 MM² / 4 M GROUND CABLE WITH CLAMP 239601





REDUCER WITH FLOWMETER AND 1 MANOMETER 020916



TSA1 - TIG SIMPLE AUTOMATION KIT 031118



DFX1 353485



CD 678²⁴³



PSR7 020919



ADAPTER FOR TORCH AND PSR 7 460056



A6 K11005



Datasheet

MATRIX X HF: TECHNICAL FEATURES

TECHNICAL DATA			MATRIX X 220 HF		MATRIX X 300 HF	
			TIG	MMA	TIG	MMA
Single phase input 50/60 Hz	V +20% -20%		230		-	
Three phase input 50/60 Hz	٧	+20% -20%	_		400	
Input power @ I ₂ max	kVA		5,2	6,0	8,5	8,5
Delayed Fuse (I ₂ @ 100%)	А		16		10	
Power factor / $\cos \phi$			0,99		0,96/0,99 - 0,95/0,99	
Efficiency Degree			0,84		0,87	
Open circuit voltage	V		85	85	85	
Current range	А		1 -220	10 - 180	1-300	10 - 270
Duty cycle at (40°C)	A 100%		160	120	210	200
	A 60%		190	150	250	230
	A x %		220(30%)	180(30%)	300(35%)	270(35%)
Standards			EN 60974-1 • EN 60974-3 • EN 60974-10			
			S			
Protection Class		IP	23 S		23 S	
Dimensions (LxWxH)		mm	530 x 215 x 410		530 x 215 x 410	



WELDING TOGETHER

www.ceaweld.com











