Matrix X





MATRIX X



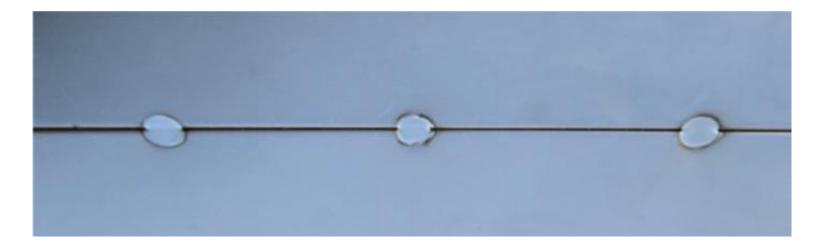
- Matrix X Dc 220, 300
- Matrix X AcDc 220, 300, 400, 500
- New XV user-interface (= X.Vision)
- Also available -- with conventional operation-panel
- u/d torches (parameters + jobs)
- Very stable/reliable ignition
- **DC** 1A min.current
- **AC** 3A min.current
- Perfect-Point ... best-possible Spot-Position
- Repeated-Ignition Function
- Ignition always on positive wave (AC)



RCT ... Running Cold Tack



- COLD TACK => RCT Running Cold Tack on DC
- For thin sheets
- Minimal thermal input compared to (puls) TIG
- Default-Setting
 - Amperage => max.
 - Tack-Time
 - Pause-Time => 1 sec (to avoid malfunction of automatic helmets)
 - Quan. of Impulses => 1 (max. 10)



PULS-modes



SYN (Easy-Puls)

- Synergic Puls based on set peak current.
- Simple
- DC

SLOW

- Peak / base current + time individually adjustable
- Optimal filler-deposition => good look
- Useful in combination with BALANCE / Frequency
- AC / DC

FAST

- 0,5 500 Hz for more concentrated arc cone!
- Smaller arc-diameter
- Less deformation
- DC

ULTRA-FAST

- Up to 2000 Hz
- DC





AC wave-forms



DYNAMIC

- Rectangular wave
- Most common
- High arc stability
- Small-medium thickness

COLD

- Triangular Wave
- Low heat transfer -- with reduced deformation
- Small thickness

SOFT

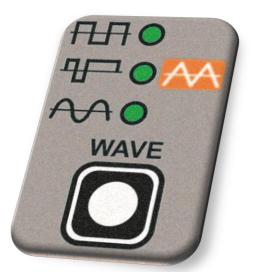
- Sinusoidal wave
- Silent an soft arc
- Butt welding joints

SPEED

- Mixed Wave
- Good penetration at high welding speed
- Big thickness
- Longer electrode life

Overview

•	Rectangular	DYNAMIC TIG	for all applications
•	Triangular	COLD TIG	for small thickness
•	Sinusoidal	SOFT TIG	for low noise
•	Mix wave-form	SPEED TIG	for high speed / long electrode-life



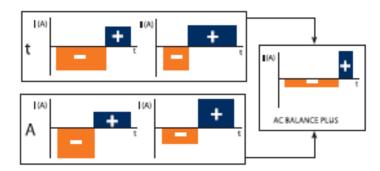


Balance / Frequency

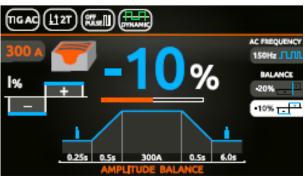


Balance

- Positive and negative wave separatly adjustable
- Pos / Neg power
- Pos / Neg time
- Proportion of Pos / Neg wave

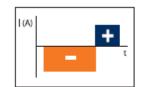


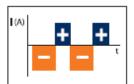




AC Frequency

 High frequence => very thin sheets, high welding-speeds (automatic use)





Tungston-Electr. Diameter

- Elektrode-diameter adjustable
 - Iginition-Courrent adjusted
 - Shaping of ball (,calotte')





- MMA also in AC possible
 - To avoid blowing-effect
 - Hotstart and Arcforce adjustable

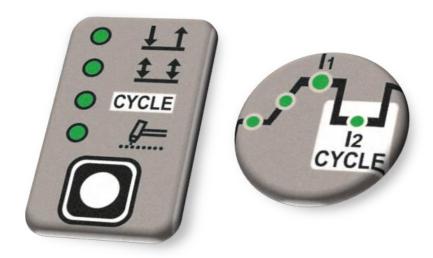




Cycle-function



Switching between 2 set Amp-levels – by torch-trigger





MATRIX - accessories















PSR 7 5 m foot remote control



Matrix X

- Very small and compact
- 300A version 17kg

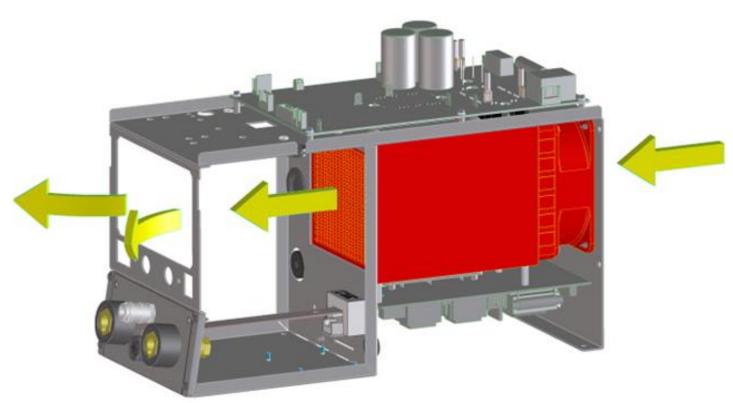






Matrix X

- Modern Cooling-concept
- High duty-cycle (60% 400A/500A version)
- No metalic dust on electronic components
- Less maintenance



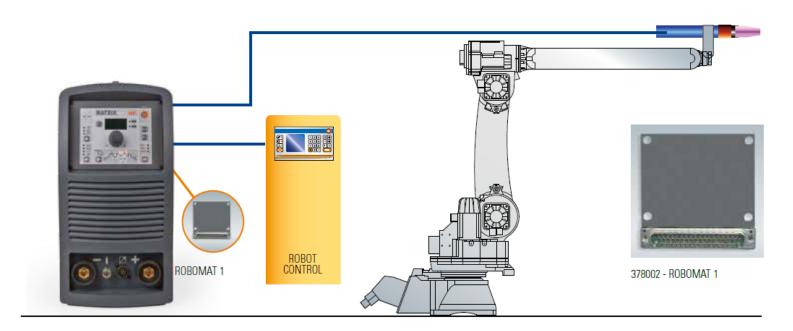




Matrix X – for robotic/automatc use

(H)

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CODE	DESCRIPTION		%	3000	MATRIX 3000 HF-R COOLING AIR WATER		MATRIX 4200 HF-R COOLING AIR WATER	
	POWER SOURCES - DC							
004531	Power source MATRIX 3000 HF-R 400 V - 3 Phase	3.820,00	M2	V				
004556	Power source MATRIX 4200 HF-R 400 V - 3 Phase	4.890,00	M2			V		
	WATER COOLING							







