



CONVEX MOBILE



CONVEX MOBILE PULSE



## SYNERGIC MULTIPROCESS INVERTER COMPACT POWER SOURCES

Powerful three phase welding equipment in the size of just one wire feeder unit: this is the main peculiarity of CONVEX MOBILE series, innovative multiprocess synergic power sources for welding in MIG/MAG, MMA and TIG with "Lift" mode.

Versatile, easy-to-carry and user friendly, CONVEX MOBILE equipment are greatly appreciated, also thanks to their very high technological conception, anywhere high quality welding is required and are ideal for on-site work, maintenance job, car body repair and light fabrication work.

CONVEX MOBILE 255 PULSE, because of its additional Pulse and Dual Pulse facility, grants very high quality performance on all materials and particularly on stainless steel, zinc coated and aluminium, by greatly minimizing any reworking job due to spatters



- Multiprocess power sources: MMA - TIG LIFT - MIG/MAG Synergic & Manual and for CONVEX MOBILE 255 PULSE, PULSED MIG and DUAL PULSE
- Digital control of the welding parameters with synergic curves preset according to used type of material, gas and wire diameter
- User friendly and easy-to-use selection and recalling of the parameters and welding programs
- Ability to store personalized welding parameters up to 99 JOBS
- "Smart PROGRAM" key for quickly selecting any program
- Built-in polarity changeover facility for most common gas and gasless wires
- Very contained size and weight
- Suitable for 300 mm Ø coils
- Professional double groove feeding mechanism with 4 rolls of 37 mm diameter replaceable without any tool
- "Energy saving" function to operate the power source cooling fan only when necessary
- Excellent arc striking always precise and efficient
- Reduced energy consumption
- Trouble shooting auto-diagnosis feature
- Metallic main structure with shockproof fibre compound front panel
- Initial and final crater control
- VRD – Voltage Reduction Device
- Possibility to use Up/Down torches



### SPECIAL WELDING PROCESS

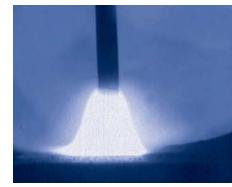
vision.COLD for MIG/MAG welding small thickness with reduced heat input



CT40 gas cylinder trolley for HR 32/30 watercooling and optional storage compartment

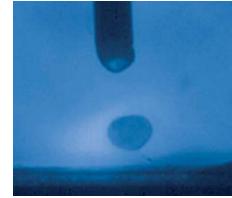


vision.ARC is the innovative welding arc control developed by CEA granting a short arc extremely stable and precise in spite of any change of the external conditions. vision.ARC ensures outstanding performances, impossible to be obtained by traditional power sources.



#### VISION.PULSE (CONVEX MOBILE 255 PULSE)

vision.PULSE permits a short arc pulse welding, constantly controlled, by optimizing the results of traditional pulse welding. This enables to reduce the high heat input, typical in pulse welding, with a consequent reduction in distortions, an improvement in the puddle and considerable increase in welding speed too.



#### DUAL.PULSE (CONVEX MOBILE 255 PULSE)

Dual Pulse favours a further reduction in the heat transfer to the workpiece by minimizing its deformation and produces premium quality aesthetic beads similar to TIG finishing.

Dual Pulse is extremely useful mostly when welding aluminium and stainless steel.



TECHNICAL DATA	V +15% -15%	CONVEX MOBILE 251			CONVEX MOBILE 255 PULSE		
		MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA
Three phase input 50/60 Hz			400			400	
Input Power @ I <sub>2</sub> Max	kVA	8,4	6	8,7	12	9,7	13
Delayed Fuse (I <sub>eff</sub> )	A	10	10	10	16	16	16
Power Factor / cos φ		0,96/0,99	0,96/0,99	0,96/0,99	0,65/0,99	0,65/0,99	0,65/0,99
Efficiency Degree		0,87	0,87	0,87	0,9	0,9	0,9
Open circuit voltage	V	60	60	60	60	60	60
Current range	A	10 - 250	5 - 250	10 - 250	10 - 250	5 - 250	10 - 250
	A 100%	200	200	200	200	200	200
Duty cycle at (40°C)	A 60%	220	220	220	220	220	220
	A X%	250 (40%)	250 (40%)	250 (40%)	250 (40%)	250 (40%)	250 (40%)
Wires	Ø mm	0,6 - 1,2	---	---	0,6 - 1,2	---	---
Standards	Ø mm	300	---	---	300	---	---
Protection Class		EN 60974-1 • EN 60974-5 • EN 60974-10 <b>S</b>			EN 60974-1 • EN 60974-5 • EN 60974-10 <b>S</b>		
Insulation Class	IP	23 S			23 S		
Dimensions		H			H		
Weight		500X220X125 mm			500X220X125 mm		
Peso	kg	20			21		

Other voltages available on request