



WELDING TOGETHER



NEW

QUBOX PULSE

SINCE 1950





## SYNERGIC MULTIPROCESS INVERTER PULSE EQUIPMENT WITH SEPARATE WIRE FEEDER

QUBOX PULSE series multiprocessor equipments are characterized by a synergic digital control and inverter technology integrated into a sturdy and functional metallic structure, with a separate wire feeder. Technologically ahead, robust and easy-to-use, they allow high quality welding in MIG Pulse, MIG-MAG, MMA and TIG with “Lift” mode.

QUBOX PULSE equipment also allow less experienced operators to easily adjust all welding parameters in an intuitive way. Once the wished program is selected, the welding control automatically determines the best parameters based on the material type, wire diameter and gas being used, fruit of CEA's know-how acquired in over 65 years' experience. These power sources represent the best choice in all industrial fields for all qualified applications requiring high precision and repeatability of the welding results, such as medium and large fabrication work, shipyards and steel erection.

QUBOX PULSE equipment are fitted with integrated water cooling unit.



### VISION.ARC

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

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.



### WSC - WIRE START CONTROL

WSC wire start control prevents any possible wire sticking to the workpiece or torch nozzle, by always ensuring a precise and “soft” arc striking.

### BURN BACK CONTROL

At the end of each weld, in any condition and with any metal, the digital control ensures a perfect wire cut thus avoiding the formation of the typical “wire globule” by ensuring the subsequent best arc striking

### SIMPLE AUTOAMTION

Standard equipped with analogic-digital I/O, QUBOX PULSE power sources can be easily integrated into automated welding equipment without any expensive and sophisticated external interfaces usually necessarily supplied for robotics.

### UP/DOWN AND DIGITORCH

Possibility of working by means of up/down torches and Digitorch to easily adjust main welding parameters at the work place.

## FEATURES

- ▶ Multiprocess power sources: MIG Pulse –MIG/MAG – MMA – TIG LIST
- ▶ Parameter control directly from the wire feeder
- ▶ Digital control of the welding parameters with synergic curves preset according to used type of material, gas and wire diameter
- ▶ Ability to store personalized welding parameters up to 99 JOBS
- ▶ Smart PROGRAM” key for quickly selecting any program
- ▶ Energy saving” function to operate the power source cooling fan and torch water cooling only when necessary
- ▶ Excellent arc striking always precise and efficient
- ▶ Ability to partially or totally lock the equipment with access key by password
- ▶ Reduced energy consumption
- ▶ Trouble shooting auto-diagnosis feature
- ▶ Great robustness due to solid metallic main structure
- ▶ Control rack protection cover on the wire feeder
- ▶ Initial and final crater control
- ▶ VRD – Voltage Reduction Device
- ▶ Water cooling equipment integrated into the power source

## QF4W WIRE FEEDER

The digital control of all parameters, duly protected by a cover, is located directly on the QF4W wire feeders (water cooled).

- Professional wire feeding mechanism with 4 rolls of large diameter for a precise and constant wire driving
- Graduated knob to achieve the most correct value of the wire pressure, which remains unchanged also after any arm opening and closing
- Double groove rolls replaceable without any tool
- Lodging for wire spools up to 300 mm diameter maximum



## DIGITORCH

The DIGITORCH torches allow you to view the main welding parameters directly on the torch display. Furthermore, depending on the selected operating mode, it is possible to switch from one program to another or increase or decrease the parameters of the synergic curve in use.



The QUBOX PULSE models are available in: **STANDARD** configurations, designed for the most used welding applications, and **PREMIUM**, equipped with the innovative welding processes **vision.COLD**, **vision.ULTRASPEED** and **vision.POWER**. On this second version is standard the package of special **ECP** curves dedicated to those who want a system with higher level welding performance and who is not willing to give up the flexibility to weld different materials

### QUBOX PULSE PREMIUM



To weld thin thickness laminations with low heat transfer



For high speed welding



For a more concentrated arc and deeper penetration on medium and thick thickness



### ON DEMAND



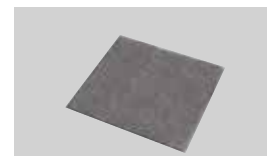
For a more accurate welding in pipe first root pass.

### ACCESSORIES

- Up/Down and Digitorch torches
- WK 1 kit of standard wheels/WK2 kit of extra large wheels
- Wire feeder holding support
- Remote control RC 178
- Dust filter
- Adjustable torch support



TECHNICAL DATA		QUBOX PULSE	
		405W	505W
Three phase input 50/60 Hz	V <sup>+20%</sup> / <sub>-20%</sub>	400	400
Input Power @ I2 Max	kVA	21,5	29,5
Delayed Fuse (I eff)	A	32	40
Power Factor / cos φ		0,72/0,99	0,75/0,99
Efficiency Degree		0,88	0,89
Open circuit voltage	V	62	62
Current range	A	10 - 400	10 - 500
Duty cycle at (40°C)	A 100%	330	400
	A 60%	360	460
	A X%	400 (50%)	500 (50%)
Wires	Ø mm	0,6 - 1,6	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10	
Protection Class	IP	23 S	23 S
Insulation Class		H	H
Dimensions	↗ mm	1030	1030
	→ mm	950	950
	↑ mm	515	515
Weight	kg	80	86



Other voltages available on rerequest

