



QUBOX / QUBOX PULSE

BACK TO WELD



QUBOX



QUBOX PULSE

QUBOX and **QUBOX PULSE** series multiprocess equipment are characterized by a synergic digital control and inverter technology integrated into a sturdy and functional metallic structure, with a separate wire feeder. Technologically advanced, robust and easy-to-use, they allow high quality welding in MMA, TIG with "Lift" mode, MIG-MAG and with the **QUBOX PULSE** models, also in PULSED MIG.

The intuitive interface will allow all to less experienced operators to easily operate **QUBOX** and **QUBOX PULSED** equipment with a user-friendly welding parameters adjustment process.

Once the wished program has been selected, the welding control automatically sets the best parameters based on the material type, wire diameter and gas being used.

QUBOX and **QUBOX PULSE** are 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 W and **QUBOX W PULSE** power sources are fitted with integrated water cooling unit.



- Professional and strong
- Full synergic control
- Great welding performance



QUBOX FEATURES

- 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
- "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
- Great robustness due to solid metallic main structure
- Initial and final crater control
- Water cooling equipment integrated into the power source (W version)

WIRE FEEDER **QF7 W PRO DRIVE**

- **STRONG INDUSTRIAL CASE** made to last
- **PROFESSIONAL WIRE FEEDING** mechanism with 4 rolls of large diameter for a precise and constant wire driving
- **DOUBLE GROOVE ROLLS** replaceable without any tool
- **LODGING FOR WIRE SPOOLS** up to \varnothing 300 mm
- **LED LIGHT** in the feeder compartment
- **INSPECTION WINDOWS** in the spool cover
- **HK1** Hanging Kit (optional)
- **LONG INTERCONNECTING CABLE** are available for QUBOX equipment in the air cooled version over 50 m



WIRE FEEDER **YARD 4**

This compact and light wire feeder (11,5 Kg only), studied for \varnothing 200 mm wire spools, with flowmeter and complete control of the parameters on its panel, represents the ideal solution for shipyards and offshore welding applications.



FSC - Fast Start Control

It is the innovative arc striking control that reduces drastically the ignition time. By this new technology it is possible to have a quick and perfect ignition at every start. This is ideal for spot-welding and pre-assembly of components.

SIMPLE AUTOMATION

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

SPECIAL 4 STROKE

It is the special function that allows to save time at any weld. Every welder who welds in 4 stroke can quickly prepare the piece operating a perfect spot without changing any set on the interface. Simply by pressing for less than one second the torch trigger, it is possible to spot in 2 stroke even if the welder is set in 4 stroke. Keeping the same set-up, it is only needed to press the trigger for more than one second and the welder automatically works in 4 stroke.



SPECIAL PROCESSES

QUBOX and 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.

PREMIUM VISION



vision.COLD
To weld thin thickness laminations with low heat transfer



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



vision.ULTRASPEED
For high speed welding



ECP
Extra curve package

ON DEMAND



vision.PIPE
For a more accurate welding in pipe first root pass.

TECHNICAL DATA		QUBOX			QUBOX PULSE			
		400	400 W	500 W	335	335 W	405 W	505 W
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400	400	400	400
Input Power @ I2 Max	kVA	22	22,5	29,5	18	18,5	22,5	29,5
Delayed Fuse (I eff)	A	32	32	40	20	20	32	40
Power Factor / cos φ		0,70/0,99	0,70/0,99	0,75/0,99	0,65/0,99	0,65/0,99	0,70/0,99	0,75/0,99
Efficiency Degree		0,88	0,88	0,89	0,88	0,88	0,88	0,89
Open circuit voltage	V	62	62	62	62	62	62	62
Current range	A	10 - 400	10 - 400	10 - 500	10 - 330	10 - 330	10 - 400	10 - 500
Duty cycle at (40°C)	A 100 %	350	350	420	300	300	350	420
	A 60 %	400	400	500	330	330	400	500
Wire	∅ mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10. [S]						
Protection Class	IP	23 S	23 S	23 S	23 S	23 S	23 S	23 S
Dimensions (L x W x H)	mm	1030 X 950 X 515	1030 X 950 X 515	1030 X 950 X 515	1030 X 950 X 515	1030 X 950 X 515	1030 X 950 X 515	1030 X 950 X 515
Weight	Kg	70	80	86	70	80	80	86

ORDER INFORMATION

CODE	DESCRIPTION	QUBOX			QUBOX PULSE			
		400 AIR	400W WATER	500W WATER	335 AIR	335W WATER	405W WATER	505W WATER
POWER SOURCES								
004730	Power Source QUBOX 400 400 V	●						
004740	Power Source QUBOX 400 W 400 V Water cooled		≈					
004745	Power Source QUBOX 500 W 400 V Water cooled			≈				
004766	Power Source QUBOX 335 PULSE 400 V				●			
004771	Power Source QUBOX 335 W PULSE 400 V Water cooled					≈		
004770	Power Source QUBOX 405 W PULSE 400 V Water cooled						≈	
004775	Power Source QUBOX 505 W PULSE 400 V Water cooled							≈
STANDARD MODELS include Programs for Fe - CrNi - Al and TIG / MMA functions								
PREMIUM VERSION - POWER SOURCES								
004730PR	Power Source QUBOX 400 400 V PREMIUM							
004740PR	Power Source QUBOX 400 W 400 V PREMIUM							
004745PR	Power Source QUBOX 500 W 400 V PREMIUM							
004766PR	Power Source QUBOX 335 PULSE 400 V PREMIUM							
004771PR	Power Source QUBOX 335 W PULSE 400 V PREMIUM							
004770PR	Power Source QUBOX 405 W PULSE 400 V PREMIUM							
004775PR	Power Source QUBOX 505 W PULSE 400 V PREMIUM							
PREMIUM MODELS include already install vision.COLD vision.ULTRASPEED vision.POWER and ECP								
SOFTWARE FOR SPECIAL MIG/MAG PROCESS								
050010	vision.PIPE for first root pass of pipes in MIG/MAG (*)							
050050	ECP-Extra Curves Package to meet special application (*)							
NOTE: (*) TO BE INSTALLED ONLY IN CEA BEFORE DELIVERING THE EQUIPMENT								
INTERCONNECTING CABLES								
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	●			●			
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder							
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder							
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≈	≈		≈	≈	≈
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder							
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder							
WIRE FEEDERS								
030726	Wire Feeder QF 7 W PRO DRIVE w.4 rolls (Ø: 1,0/1,2) Water cooled	●	≈	≈	●	≈	≈	≈
031116	WK 4 standard wheels kit for MF 4, MF4 yard and QF 7 W PRO DRIVE feeder							
031007	WK 2 extra-large wheel kit							
031117	HK 1 Hanging Kit for QF 7 W PRO DRIVE							
YARD WIRE FEEDERS								
030724	Wire Feeder YARD 4 with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Air cooled version							
030729	Wire Feeder YARD 4 W with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Water cooled version							
ALUMINIUM KIT								
030895	Aluminium Kit of double grooved TWIN rolls (Ø: 0,8/1,0) and gears kit for Al wires							
030897	Aluminium Kit of double grooved TWIN rolls (Ø: 1,0/1,2) and gears kit for Al wires							
030899	Aluminium Kit of double grooved TWIN rolls (Ø: 1,2/1,6) and gears kit for Al wires							
MIG MAG WELDING TORCHES								
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 C02 340A @60% / Mix 290A @60%	●			●			
020471	CEA Torch CX 451/4 4 m wire Ø 0.8÷1.6 C02 400A @60% / Mix 300A @60%							
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled C02 300A @100% / Mix 250A @100%					≈		
020479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled C02 500A @100% / Mix 450A @100%		≈	≈			≈	≈
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8÷1,2 water cooled (to be ordered w. 031107)							
031107	Push Pull Synchronizer PC Board KIT for QF4, HT5 (to be ordered with the Push Pull torch)							
031113	Push Pull Synchronizer PC Board KIT 24/42 V for MF4 and QF7 ProDrive (to be order with Push Pull torch) For other torches see mig/mag torches							
TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE								
020568	Torch RTX 26.4 4 m - 180 A 35%							
GROUND CABLES								
239603	50 mm ² / 4 m Ground cable with clamp	●	≈		●	≈	≈	
239607	70 mm ² / 4 m Ground cable with clamp			≈				≈
GAS REDUCERS								
020916	Reducer with flowmeter and 1 manometer	●	≈	≈	●	≈	≈	≈
OTHER OPTION[S]								
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≈	≈		≈	≈	≈
353473	Dust Air Filter (package of 4 pcs)							
236590	Metallic spool adaptor							
236234	RC 178 remote control with 5 m cable							
460262	4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp - brush/hammer - shield with lens							
460264	4+3 m 70 mm ² cables with electrodeholder pincer, ground clamp - brush/hammer - shield with lens							
	QUBOX 400 Suggested air cooled version with torch	●						
	QUBOX 400 W Suggested water cooled version with torch		≈					
	QUBOX 500 W Suggested water cooled version with torch			≈				
	QUBOX 335 PULSE Suggested air cooled version with torch				●			
	QUBOX 335 W PULSE Suggested water cooled version with torch					≈		
	QUBOX 405 W PULSE Suggested water cooled version with torch						≈	
	QUBOX 505 W PULSE Suggested water cooled version with torch							≈