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**CEA**

**MIG/MAG**

made in italy  
SINCE 1950





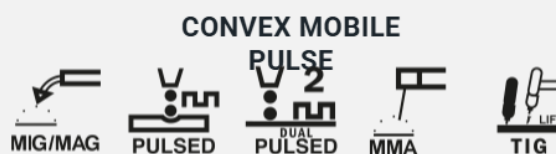
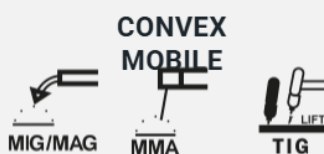
## CONVEX MOBILE / CONVEX MOBILE PULSE

### SMALL AND POWERFUL

#### MIG-MAG INVERTER PORTABLE EQUIPMENT

Powerful 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 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.



## Multi-process and synergic control

CONVEX MOBILE PULSE, because of its additional Pulse and Dual Pulse processes, grants high quality performance on all materials and particularly on stainless steel, zinc coated and aluminium, by greatly minimizing any reworking job caused by spatters.



## Single phase version with PFC

CONVEX MOBILE 201 and 205 PULSE, with single phase input power, have PFC facility which optimizes the amount of energy consumption by allowing their use, at maximum power, on 16 A fuse mains and with power generator sets without any problems.

## Other characteristics

- vision.COLD included in CONVEX MOBILE 205 PULSE – 251 – 255 PULSE
- Built-in polarity changeover feature for most common gas and gasless wires
- Suitable for Ø 300 mm wire spools
- Professional double groove feeding mechanism with 4 rolls of Ø 37 mm.
- "Energy saving" function to operate the power source cooling fan only when necessary
- Possibility to use Up/Down torches
- Trouble shooting auto-diagnosis feature
- Initial and final crater control
- VRD – Voltage Reduction Device



## TECHNICAL FEATURES



### VISION.COLD

vision.COLD is an innovative low heat transfer MIG/MAG process, developed by CEA for welding thin thickness lamination sheets and for MIG brazing in all welding positions.

#### ADVANTAGES

Welding of high carbon and highly alloyed steel thin sheets – Very contained damage to zinc in Mig Brazing – Significant reduction of heat input with minimal deformation – Lack of spatters and projections – Vertical down welding

#### APPLICATIONS

Welding of thin thickness laminations with low heat transfer – Open gap joints in all positions – MIG brazing with low heat transfer

### VISION.ARC

Thanks to vision.ARC, the electric arc is monitored continuously by the microprocessor which manages the welding process in real time: all the parameters are processed and modified by the control that digitally manages the short circuits of MIG-MAG, keeping the arc stable and precise despite any change of the external conditions. The welding process is always under control from arc striking, by Wire Start Control (WSC), to when the arc is interrupted by Burn-Back Control.



### VISION.PULSE

vision.PULSE allows a constantly controlled short arc pulse welding, 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 off the puddle and considerable increase in welding speed too.

### DUAL.PULSE

Dual.PULSE favours a further reduction in the heat transfer to the workpiece by minimizing its deformation and it produces premium quality aesthetic beads similar to TIG finishing. Dual.PULSE is extremely useful when welding aluminium and stainless steel.



Available accessories

## DISCOVER ALL AVAILABLE ACCESSORIES



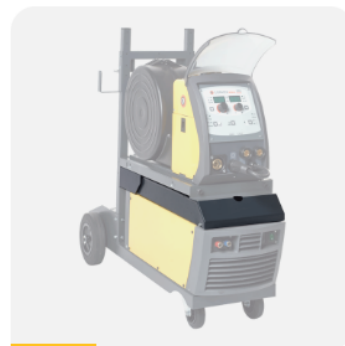
**HR 32**  
032098



**CEA CL-1100**  
102075A



**TROLLEY CT**  
201031



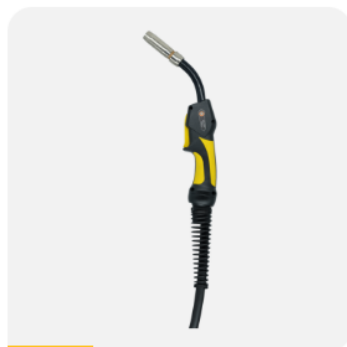
**ADAPTOR SUPPORT  
PLATE FOR CONVEX  
MOBILE**  
449478



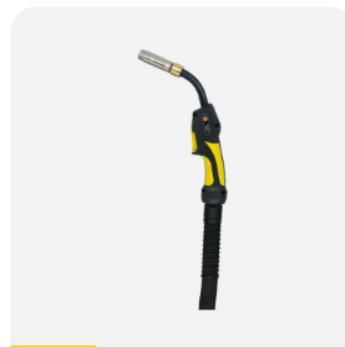
**ACCESSORY BOX  
KIT**  
441013



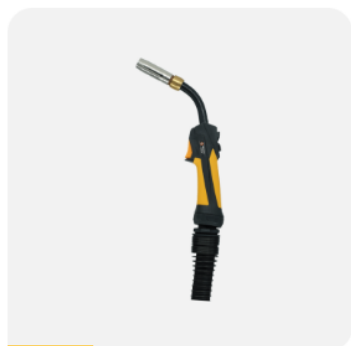
**WK 2 EXTRA-LARGE  
WHEEL KIT**  
031007



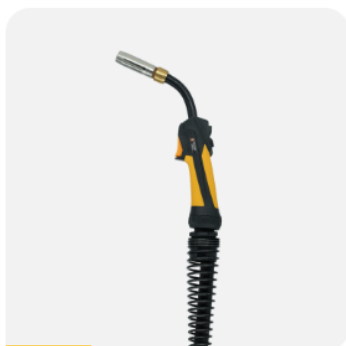
**CEA TORCH CX**  
25103



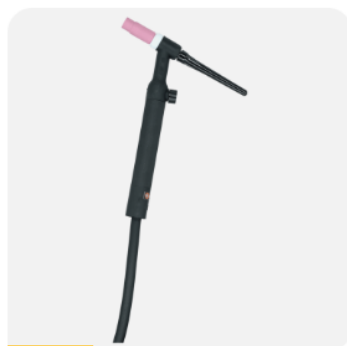
**CEA TORCH CXH**  
30204



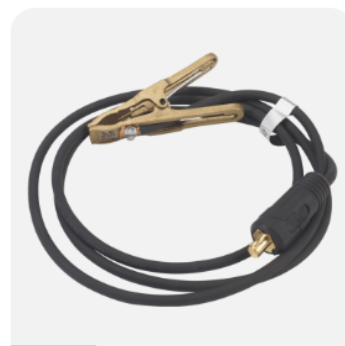
**CEA TORCH CXH 302/4  
UP/DOWN-6P**  
021001



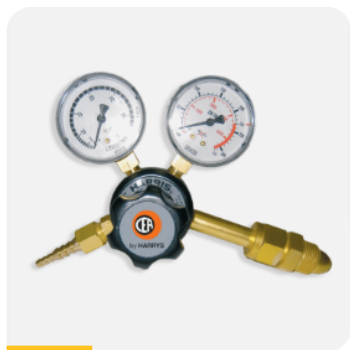
**CEA TORCH CX 353/4  
UP/DOWN-6P**  
021002



**CEA TORCH RTX**  
260068

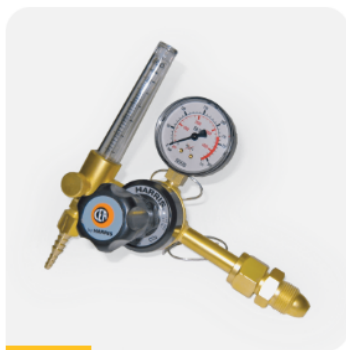


**35 MM² / 4 M GROUND  
CABLE WITH CLAMP**  
239601



**REDUCER WITH 2  
MANOMETERS**


020855



**REDUCER WITH  
FLOWMETER AND 1  
MANOMETER**

020916

## CONVEX MOBILE / CONVEX MOBILE PULSE: TECHNICAL FEATURES

TECHNICAL DATA			CONVEX MOBILE 201 / CONVEX MOBILE 205 PULSE			CONVEX MOBILE 251 / CONVEX MOBILE 255 PULSE		
			MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA
Single phase input 50/60 Hz	V	+15% -15%	230			-		
Three phase input 50/60 Hz	V	+15% -15%	-			400		
Input Power @ I <sub>2</sub> Max	kVA		6	4,6	7,1	10	8,5	11
Delayed Fuse (I eff)	A		16	16	16	16	10	16
Power Factor / cos φ			0,95/0,99	0,95/0,99	0,95/0,99	0,74/0,99	0,69/0,99	0,77/0,99
Efficiency Degree			0,84			0,89		
Open circuit voltage	V		45	45	45	60	60	60
Current range	A		10-200	5-200	10-200	10-250	5-250	10-250
Duty cycle at (40°C)	A 100%		105	105	105	180	180	180
	A 60%		140	140	140	200	200	200
	A X%		200(25%)	200(25%)	200(25%)	250(35%)	250(35%)	250(35%)
Wires	Ø mm		0,6-1,2	-	-	0,6-1,2	-	-
Coil	Ø mm		300	-	-	300	-	-
Standards			EN 60974-1 • EN 60974-5 • EN 60974-10					
								
Protection Class	IP		23S			23S		
Dimensions (LxWxH)	mm		650 x 300 x 388			650 x 300 x 388		



WELDING TOGETHER

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