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**CEA**

**MIG/MAG**

made in italy  
SINCE 1950





## SMART / SMARTCAR PULSE

### SPECIAL DESIGN FOR AN INNOVATIVE COMPACT EQUIPMENT

#### MIG-MAG INVERTER COMPACT EQUIPMENT

SMART are a new MIG/MAG compact power source with conventional manual adjustment of the parameters, while SMARTCAR PULSE are a new multiprocess synergic power sources for welding in MIG/MAG, MMA and TIG with "Lift" mode characterized by an innovative user-friendly design.

#### SMARTCAR



#### SMARTCAR PULSE





## New ergonomic level

SMART and SMARTCAR PULSE combine ergonomics and ease of use with an incredible welding quality with a precise and stable arc in all situations, which makes them perfect for all qualified welding applications, especially in metal sheet working, car body repair sector, agriculture and maintenance.



## Excellent welding quality

SMARTCAR PULSE because of its additional Synergic control and Pulse and Dual Pulse function, grants high quality performance on all materials and in particular on stainless steel, zinc coated and aluminium, by greatly minimizing any reworking job caused by spatters.

## Other characteristics

- vision.COLD included in SMARTCAR 305 PULSE
  - Digital control with synergic curves preset (\*)
  - Easy-to-use selection and recalling of the parameters and welding programs (\*)
  - Transparent plastic interface protection (\*)
  - Lodging for wire spools up to Ø 300 mm
  - Inspection window in the spool cover
  - Professional double groove feeding mechanism with 4 rolls of large diameter
  - "Energy saving" to operate the power source cooling fan only when necessary
- (\*) Only for SMARTCAR PULSE



## TECHNICAL FEATURES



### SMART AND SMARTCAR PULSE PANEL

SMART and SMARTCAR PULSE have both a very user-friendly panel that allows to keep the full control on each parameter of welding.

SMART: manual MIG/MAG

SMARTCAR PULSE: synergic MIG/MAG, PULSE and DOUBLE-PULSE

### VISION.COLD

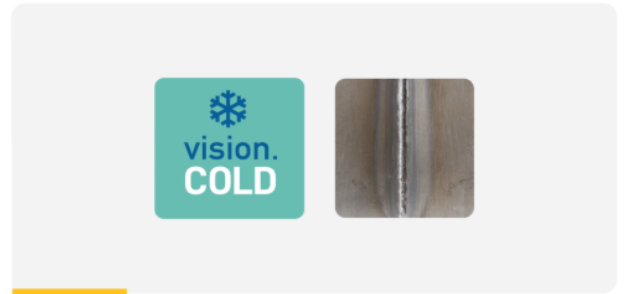
vision.COLD is an innovative low heat transfer MIG/MAG process, developed by CEA for welding thin thickness lamination sheets and for MIG brazing in all welding positions.

#### 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

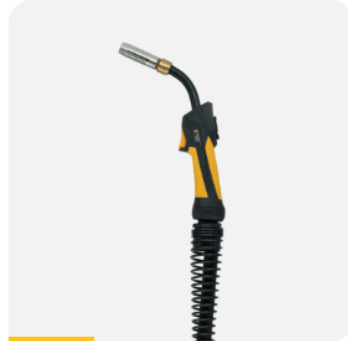
## DISCOVER ALL AVAILABLE ACCESSORIES



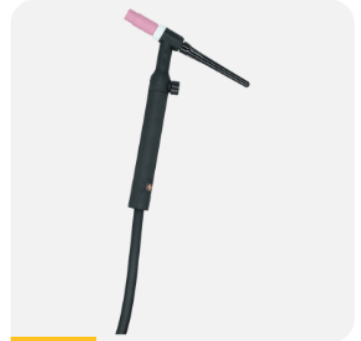
**CEA TORCH CX 251/3**  
020458



**CEA TORCH CX 251/4**  
020459



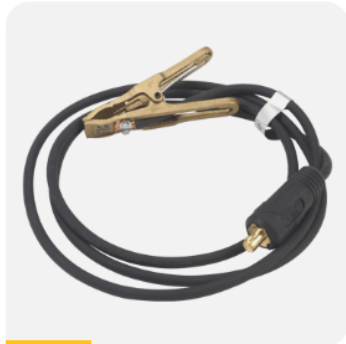
**CEA DIGITORCH DX 353/4-D**  
021016



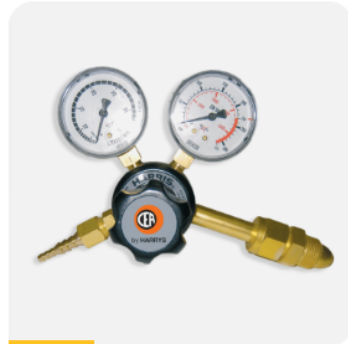
**CEA TORCH RTX 26.4**  
020568



**25 MM<sup>2</sup> / 3 M GROUND  
CABLE WITH CLAMP**  
239618



**35 MM<sup>2</sup> / 4 M GROUND  
CABLE WITH CLAMP**  
239601



**REDUCER WITH 2  
MANOMETERS**  
020855



**TS1 - TORCH SUPPORT**  
031124

Datasheet

## SMART / SMARTCAR PULSE: TECHNICAL FEATURES

TECHNICAL DATA			SMART 200	SMART 300	SMARTCAR 205 PULSE			SMARTCAR 305 PULSE		
			MIG/MAG	MIG/MAG	MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA
Single phase input 50/60 Hz	V	+10% -10%	230	-	230			-		
Three phase input 50/60 Hz	V	+10% -10%	-	400	-			400		
Input Power @ I <sub>2</sub> Max	kVA		10,1	13,3	10,1	6,3	9,4	13,3/11,9 PULSE	11,6	11,9
Delayed Fuse (I <sub>eff</sub> )	A		16	16	16			16		
Power Factor / cos φ			0,64/0,99	0,75/0,99	0,64/0,99	0,64/0,99	0,64/0,99	0,75/0,99 0,73/0,99 PULSE	0,69/0,99	0,75/0,99
Efficiency Degree			0,80	0,86	0,80			0,86		
Open circuit voltage	V		60	60	60	60	60	60	60	60
Current range	A		10-200	10-300	10-200	5-175	10-175	10-300 10-270 PULSE	5-300	10-250
Duty cycle at (40°C)	A 100%		100	180	100	100	90	180	180	180
	A 60%		115	200	115	115	110	200	200	200
	A X%		200(15%)	300(30%)	200(15%)	175(20%)	175(10%)	300(30%) 270 (30%) PULSE	300(30%)	250(35%)
Wires	∅ mm		0,6-1,2	-	0,6-1,2	-	-	0,6-1,2	-	-
Coil	∅ mm		300	-	300	-	-	300	-	-
Standards	EN 60974-1 • EN 60974-5 • EN 60974-10									
	<b>S</b>									
Protection Class	IP		23S		23S			23S		
Dimensions (LxWxH)	mm		960 x 420 x 885		960 x 420 x 885			960 x 420 x 885		
Weight	kg		38,5	40	38,5			40		



WELDING TOGETHER

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