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CEA

MIG/MAG

made in italy
SINCE 1950





SMART / SMARTCAR PULSE ERGONOMIC AND EASY TO USE 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



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.

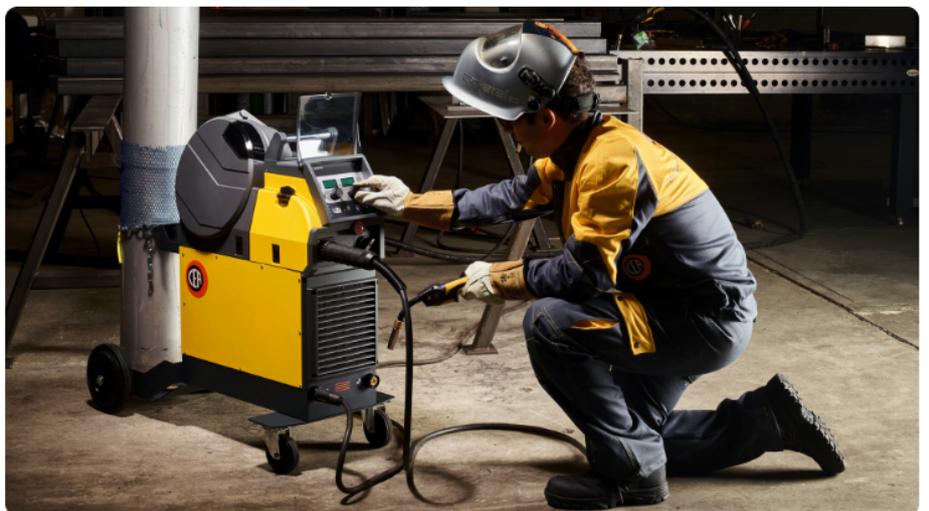


Excellent welding quality

SMARTCAR PULSE because of its additional Synergic control and Pulse and Dual Pulsefunction, 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 (*)
 - 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

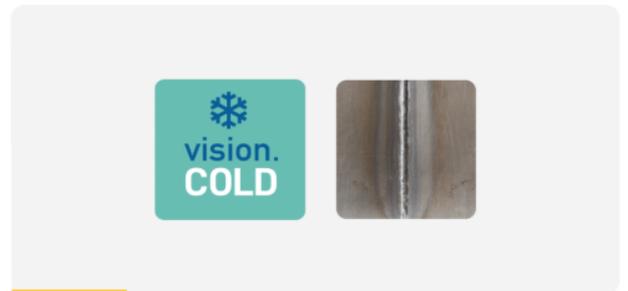
vision.COLD is an innovative low heat transfer MIG/MAG process, developed by CEA for welding thin thickness lamination sheets and for MIG brazing in all welding positions.

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.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.

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.





DUAL.PULSE

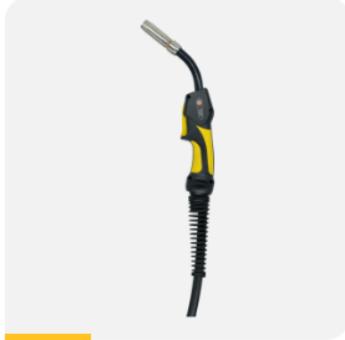
Dual.PULSE favours a further reduction in the heat transfer to the workpiece by minimizing its deformation and it produces premium quality aesthetic beads similar to TIG finishing. Dual.PULSE is extremely useful when welding aluminium and stainless steel.

Available accessories

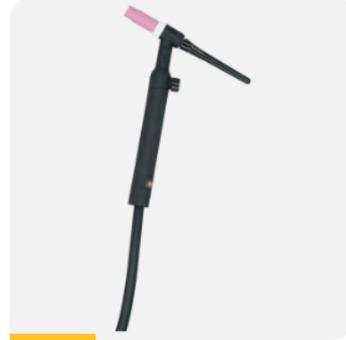
DISCOVER ALL AVAILABLE ACCESSORIES



CEA TORCH CX
251/3



CEA TORCH CX
251/4



CEA TORCH RTX
261



**25 MM² / 3 M GROUND
CABLE WITH CLAMP**
239618



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



**REDUCER WITH 2
MANOMETERS**
020855



**TS1 - TORCH
SUPPORT**

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 ₂ Max | kVA | | 10,1 | 13,3 | 10,1 | 6,3 | 9,4 | 13,3/11,9 PULSE | 11,6 | 11,9 |
| Delayed Fuse (I _{eff}) | 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 | Ø mm | | 0,6-1,2 | - | 0,6-1,2 | - | - | 0,6-1,2 | - | - |
| Coil | Ø mm | | 300 | - | 300 | - | - | 300 | - | - |
| Standards | EN 60974-1 • EN 60974-5 • EN 60974-10 | | | | | | | | | |
| | S | | | | | | | | | |
| Protection Class | IP | | 23S | | 23S | | | 23S | | |
| Dimensions (LxWxH) | mm | | 960 x 420 x 885 | | 960 x 420 x 885 | | | 960 x 420 x 885 | | |



WELDING TOGETHER

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