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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.

CONVEX MOBILE



CONVEX MOBILE PULSE



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

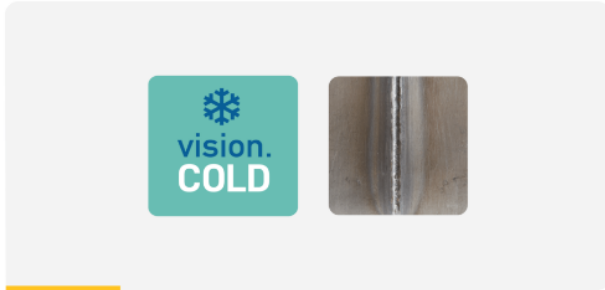
CONVEX MOBILE 201 and 205 PULSE, with single phase input power, have PFC facility which optimizes the amount of energy consumption by allowing their use, at maximum power, on 16 A fuse mains and with power generator sets without any problems.

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.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.

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.



Available accessories

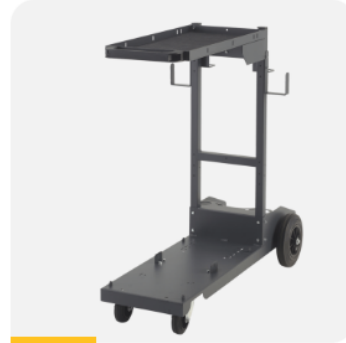
DISCOVER ALL AVAILABLE ACCESSORIES



HR 32
032098



CEA CL-1100
402275A



TROLLEY CT 401
234931



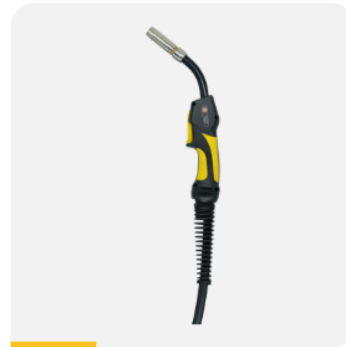
**ADAPTOR SUPPORT
PLATE FOR CONVEX
MOBILE**
449478



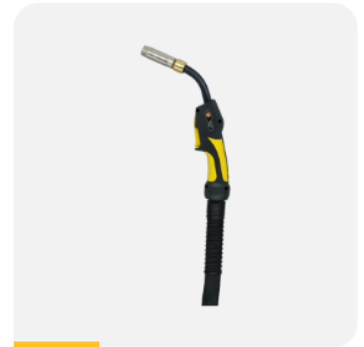
ACCESSORY BOX KIT
344013



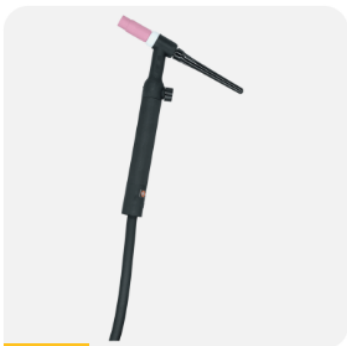
**WK 2 EXTRA-LARGE
WHEEL KIT**
031007



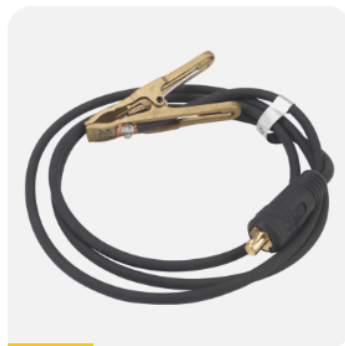
CEA TORCH CX 251/3
020458



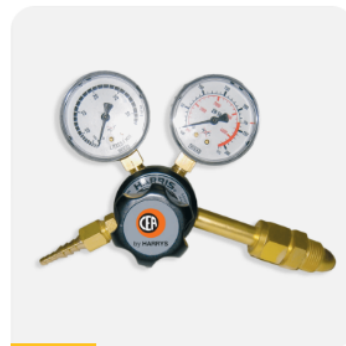
CEA TORCH CXH 302/4
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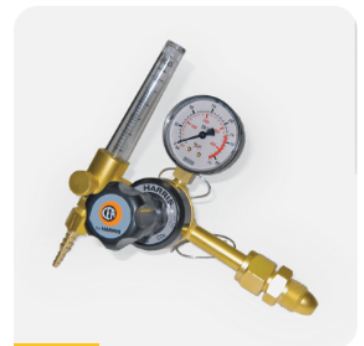
CEA TORCH RTX 26.4
020568



**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 ₂ 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							
	S							
Protection Class	IP		23S			23S		
Dimensions (LxWxH)	mm		650 x 300 x 388			650 x 300 x 388		
Weight	kg		20			21		



WELDING TOGETHER

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