

CONVEX MOBILE

... LIKE A WIRE FEEDER SIZE!



Q CONVEX MOBILE



SYNERGIC MULTIPROCESS MIG-MAG- PULSE* INVERTER



WELDING TOGETHER

* MOBILE 205 PULSE and 255 PULSE only

SYNERGIC MULTIPROCESS COMPACT UNITS

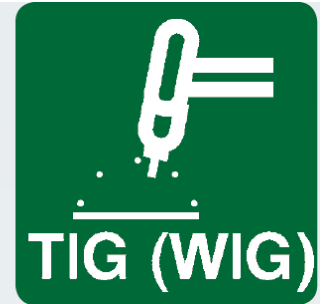
The size of just one wire feeder unit is the main peculiarity of CONVEX MOBILE series, innovative multiprocess synergic power sources for welding in MIG/MAG, MMA and TIG with “Lift” mode.

CONVEX MOBILE PULSE, because of its additional Pulse and Dual Pulse facility, grants very high quality performance on all materials and particularly on stainless steel, zinc coated and aluminium.

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.



ALL-IN-ONE!!!



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* Pulse and Dual Pulse welding processes are available on MOBILE 205 PULSE and 255 PULSE only!

CONVEX MOBILE

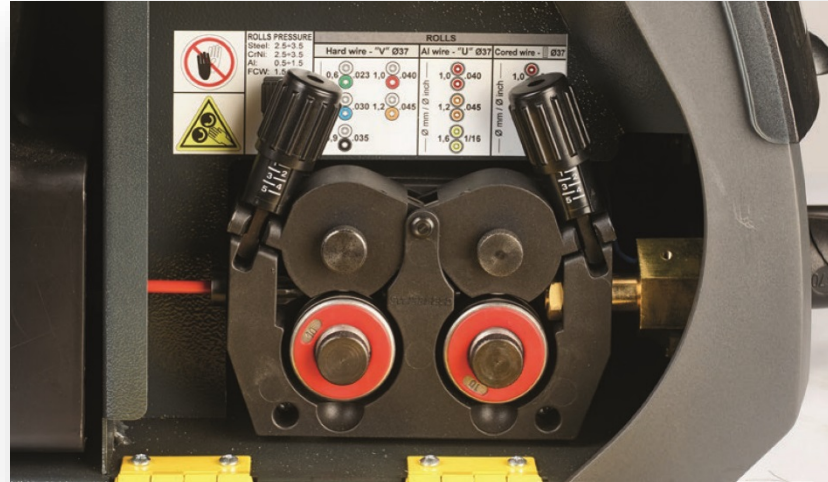


- ✓ **MOBILE 201** (SINGLE PHASE) **200 A @ 25%**
- ✓ **MOBILE 205 PULSE** (SINGLE PHASE) **200 A @ 25%**
- ✓ **MOBILE 251** (THREE PHASE) **250 A @ 35%**
- ✓ **MOBILE 255 PULSE** (THREE PHASE) **250 A @ 35%**



WELDING TOGETHER

PROFESSIONAL 4 ROLL WIRE FEEDER MECHANISM



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PROTECTION COVER

- robust protection cover protects the control panel against dust and accidental impacts.



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300 MM WIRE SPOOL



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CT 400 TROLLEY



Optional: CT400 gas cylinder trolley can be fitted for HR 32/30 watercooling and storage compartment only for:

- CONVEX MOBILE 251
- CONVEX MOBILE 255 PULSE



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vision.ARC is the welding arc control developed by CEA granting a short arc extremely stable and precise in spite of any change of the external conditions.

vision.ARC ensures outstanding performances, impossible to be obtained by traditional power sources.



WELDING TOGETHER

VISION.PULSE (CONVEX MOBILE PULSE)

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



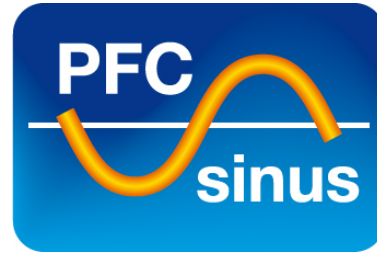
VISION.DUAL-PULSE (CONVEX MOBILE PULSE)

Dual Pulse favours a further reduction in the heat transfer to the workpiece by minimizing its deformation and produces premium quality aesthetic beads similar to TIG finishing.

Dual Pulse is extremely useful mostly when welding aluminium and stainless steel.



PFC (CONVEX MOBILE 201 – 205 PULSE)



Power Factor Correction optimizes the amount of energy consumption by allowing their use, at maximum power, on 16 A fuse mains.



WELDING TOGETHER

SPECIAL WELDING PROCESS

(CONVEX MOBILE 251 – 255 PULSE)



✓ **VISION.COLD**
low heat transfer






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. Thanks to supplied synergic programs, **vision.COLD** allows very high quality welding of thin sheets and its optimized arc ensures no deformation with minimal modification of the metallurgical characteristics of the joints. **vision.COLD** software is also an excellent solution for welding open gap joints.



WELDING TOGETHER

A PLENTY OF SYNERGIC WELDING PROGRAM TO CHOOSE FROM

EXAMPLE
OF
CONVEX MOBILE 255 PULSE
(OTHER VERSIONS MIGHT HAVE DIFFERENT PROGRAMS)

AVAILABLE PROCESSES	
	MIG MAG
	MIG MAG - VISION.COLD (CLd)
	MIG MAG - PULSE (PLS) - DUAL PULSE (dPL)
	MIG MAG - PULSE (PLS) - DUAL PULSE (dPL) - VISION.COLD (CLd)
	PULSE (PLS) - DUAL PULSE (dPL)

PROGRAM TABLE							PRG
MIG MAG (MiG MAG) - PULSE (PLS) - DUAL PULSE (dPL) - VISION.COLD (CLd)							
MATERIAL		GAS	WIRE Ø (mm)				
TYPE	CLASS		0.6	0.8	0.9	1.0	1.2
Fe	G3 Si-1	CO2	000	001	005	002	003
Fe	G3 Si-1	Ar/16-20%CO2	010	011	015	012	013
Fe	G3 Si-1	Ar/11-15%CO2		021		022	023
Fe	G3 Si-1	Ar/8-10% CO2		031		032	033
Fe	G3 Si-1	Ar/2-3% CO2		041		042	043
Fe	G3 Si-1	Ar/21-25% CO2		051	055	052	053
Fe	G62 4M	Ar/16-20%CO2					063
Fe	G3 Si-1	Ar CO2 O2				072	
FCW RUTIL	T42 2	CO2					103
FCW RUTIL	T42 2	Ar/16-20% CO2					113
FCW RUTIL	T42 2	Ar/21-25% CO2					123
FCW BASIC	T42 4	Ar/16-20% CO2					143
FCW METAL	T42 2	Ar/16-20% CO2					163
FCW METAL	T42 2	Ar/8-10% CO2					173
FCW RUTIL	E71T-GS	NO GAS - REVERSE POL.			195		
CrNi 316	G19 12 3	Ar/2-3%CO2		201		202	203
CrNi 310	G26 20	Ar/2-3%CO2					213
CrNi 309	G23-12	Ar/2-3%CO2				222	223
CrNi 308	G19 9	Ar/2-3%CO2		231		232	233
CrNi 307	G18 8	Ar/2-3%CO2		241		242	243
CrNi 385	G20 25 5	Ar/2-3%CO2					253
FCW 316	T19 12 3	Ar/16-20% CO2					303
FCW 309	T23 12	Ar/16-20% CO2					313
FCW 309	T23 12	Ar/21-25% CO2					343
FCW 308H	TZ19 9	Ar/21-25% CO2					353
Al 99.5	Al 1050	Ar 99.9%				402	403
Al Mg 5	S Al 5356	Ar 99.9%				412	413
Al Mg 5	S Al 5356	Ar 99.9%					443
Al Si 5	S Al 4043A	Ar 99.9%				422	423
Al Si 5	S Al 4043A	Ar 99.9%					453
Al Mg 4.5	S Al 5087/5183	Ar 99.9%					433
Al Mg 5	S Al 5356	Ar/30-50% He					463
Al Mg 4.5	S Al 5087/5183	Ar/30-50% He					483
BRAZING	S Cu Si3	Ar 99.9%		511	515	512	513
BRAZING	S Cu Al8	Ar 99.9%		521		522	523
BRAZING	S Cu Si3	Ar/1-2% CO2		541		542	543



CYCLE FUNCTION

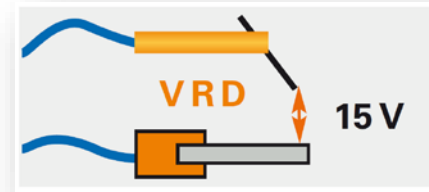
- Possibility of working with 2 welding currents retrievable from the torch trigger



VRD

VOLTAGE REDUCTION DEVICE

VRD* device reduces the open circuit voltage to values below 15 V, for the use in highly hazardous environments

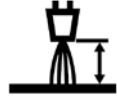


* Available on MMA / TIG to be activated



WELDING TOGETHER

ARC LENGTH ADJUSTMENT



Arc length parameter can be adjusted by changing the

- WELDING VOLTAGE (default set)

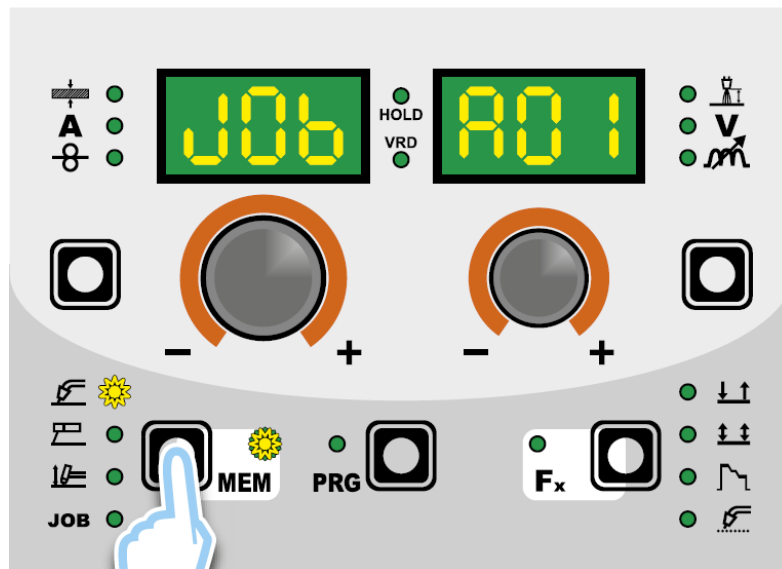
Or

- the WIRE SPEED



PERSONALIZED JOBS

- Possibility of memorizing **99 JOBS** in total







PASSWORD

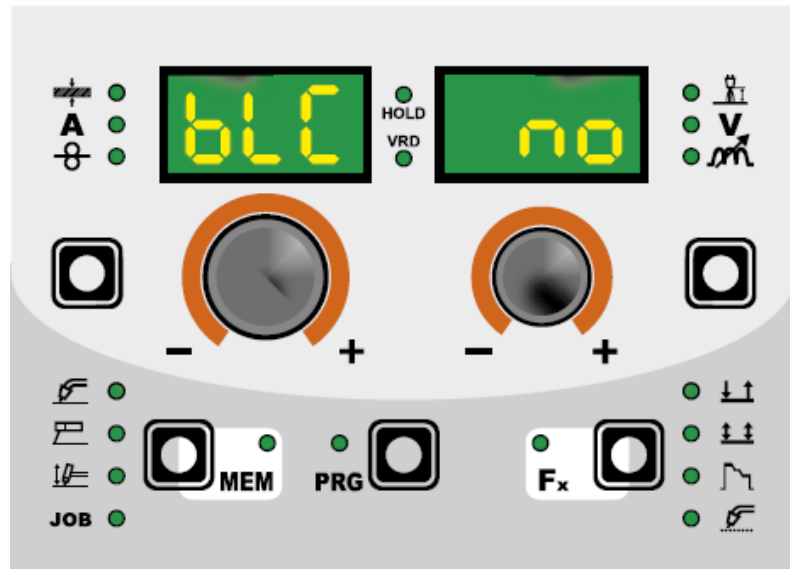
Advanced Config set-up menu access can be protected by password



WELDING TOGETHER

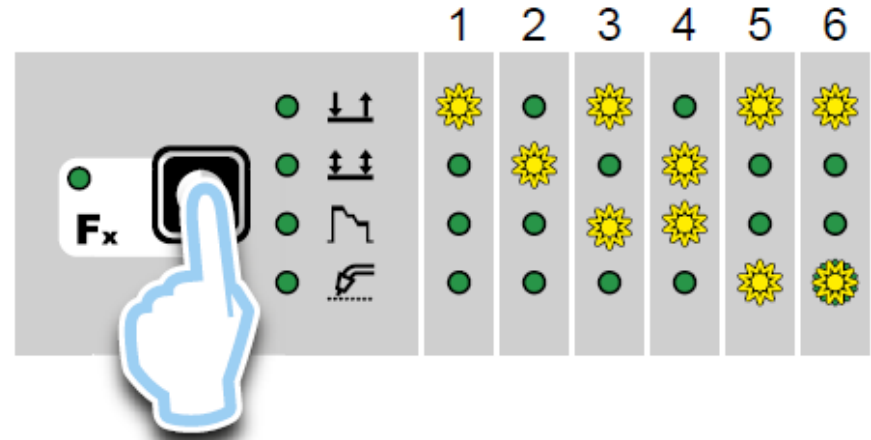
BLOCK - 3 LEVELS

-  None
-  Level 1 (two encoders active only)
-  Level 2 (total block)
-  Level 3 (voltage, current and inductance are $\pm 15\%$ adjustable)




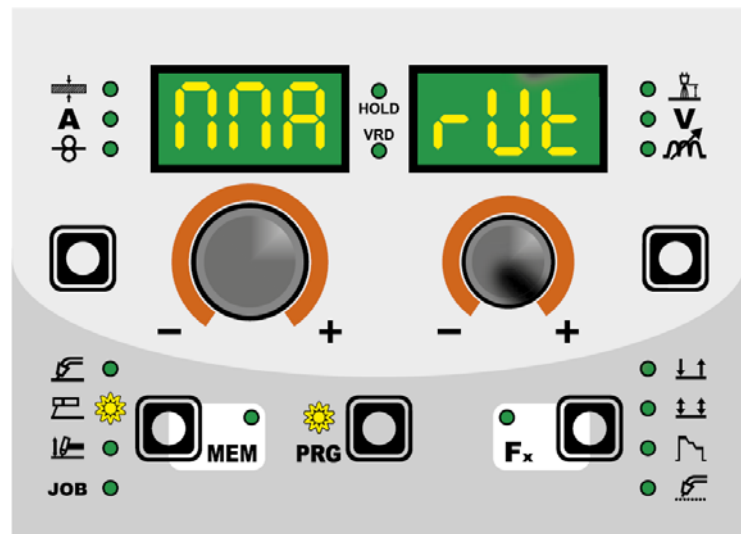
6 WELDING MODES

1. TWO STROKE (2T)
2. FOUR STROKE (4T)
3. CRATER 2T
4. CRATER 4T
5. SPOT WELDING 2T
6. STITCH WELDING 2T



MMA WELDING

PROGRAM TABLE  PRG			
MMA PROCESS			
MATERIAL		DISPLAY	
TYPE	CLASS		
Basic	E7018	MMA	bAS
Rutil	E6013	MMA	rUt
Cr-Ni	E316L	MMA	Crn



WELDING TOGETHER

OPEN TO THE FUTURE

- upgradeable with new firmware

... never getting old!



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