





CEA, founded by Ezio Annettoni in 1950, is one of the worldwide leaders for the design and manufacture of Arc and Resistance welding machines and Plasma cutting equipment for the industrial market.

CEA is WELDING TOGETHER. Our mission is to stand side by side our customers, offering the best solutions to their needs in every moment by providing innovative welding and cutting equipment with excellent performances and an outstanding and functional design.

We believe that a sustainable approach with care for the environment and the people that work and weld with us always ensures a better product.

CEA has three divisions:







CERTIFICATION AND STANDARDS



CEA has its quality management system ISO 9001 certified since 1994.





All CEA products are CE marked, therefore compliant with all EU Directives and Standards. In particular CE marking implies the conformity to the following main Directives:

2014/35/EU (LVD) 2014/30/EU (EMC) - (CISPR 11) A Class. 2011/65/EU (RoHS) 2009/125/EU (Eco-Design)



CEA products have been designed and built according to the following harmonized standards:

IEC 60974-1 EN 60974-1 Welding power sources.
IEC 60974-2 EN 60974-2 Liquid cooling systems.
IEC 60974-3 EN 60974-3 Arc striking and stabilizing devices.

IEC 60974-5 EN 60974-5 Wire fileC 60974-7 EN 60974-7 Torche

IEC 60974-10 EN 60974-10 Electromagnetic compatibility (EMC).

Wire feeders. Torches.



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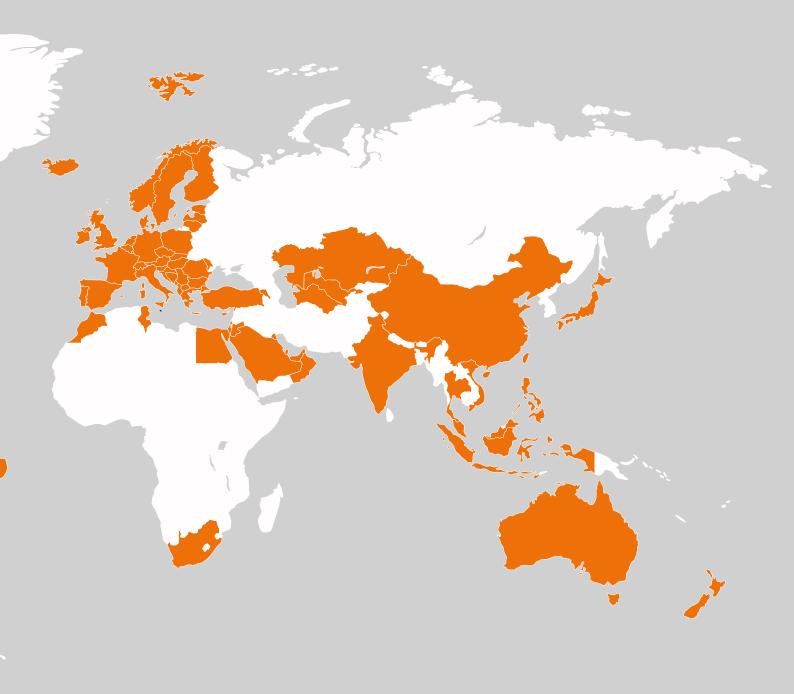
131 SYMBOLLIST



A Global Presence

In over 70 years of history, CEA has built long lasting relationships with distributors and service centres in over 70 countries to satisfy the needs of all markets.

CEA's service centres are highly qualified and constantly updated to ensure a prompt and efficient after sale service.







A sustainable choice for the future

CEA GOES GREEN is not a mere slogan, but the hallmark that highlights the goal to create value for our customers through sustainable and innovative products.

Throughout its history, CEA has always put effort to reduce the environmental footprint of its activities and products thanks to the implementation of strategies to promote promote a more sustainable development.

- Focus on high-efficiency welding processes
- · Renewable sources to produce electricity
- Eco-sustainable technologies for industrial production
- Use of recycled materials

Carbon neutral

Thanks to investments in renewable sources, CEA is on the path to become carbon neutral; a goal that is partly already been achieved. A photovoltaic system of 350 kWp allows us to produce energy annually for 320 MWh, a value higher than our internal energy consumption, making CEA self-sufficient from an electric energy standpoint.

High efficiency technology

The latest generation inverter technology and the development of new arc control software allows us to offer products with efficiencies that fully meet the energy-saving requirements of the ECODESIGN directive. In particular, the use of the new special welding processes "vision." enables welding to be carried out more quickly with lower heat input than traditional processes, guaranteeing energy savings often not considered.

CEA GOES GREEN identifies CEA products that meet our sustainability standards.

- Energy-efficient products
- · Compliance with regulations for environmental protection.
- Care in the choice of components
- Use of paints with low environmental impact
- Low weights and dimensions for low shipping, disposal and recycling costs
- Use of recycled or recyclable material in all our packaging systems







The new European Directive 2009/125/EC, better known as the ECODESIGN Directive, implements new standards of efficiency and eco-compatibility of welding machines. All CEA products market with the logos CEA GOES GREEN and ECODESIGN meet these requirements and thanks to their high efficiency, they perfectly comply the request of efficiency of the ECODESIGN directive.

ECODESIGN 2023	MINIMUM POWER SOURCE EFFICIENCY	MAXIMUM IDLE STATE POWER CONSUMPTION		
Welding equipment powered by three-phase power sources with direct current (DC) output	85 %	50 W		
Welding equipment powered by single-phase power sources with direct current (DC) output	80 %	50 W		
Welding equipment powered by single-phase and three-phase power sources with alternating current (AC) output	80%	50 W		



Innovation and Technology

Unique for its extensive range, CEA is always ahead in technological innovation, being large resources constantly invested in research and development. Excellent welding characteristics, continuous innovation, reliability, design and care for the industry's needs are the secrets of CEA's growing worldwide success.















Bridge 4 Companies

A COMMON SPIRIT



Welding machines. Robotics. Sawing machines. Metal sheet working. Apparently different sectors and distinct commercial networks, but they share many similarities. The companies that make up Bridge4Companies are above all united by the same passion and the same attention to the customer.

B4C is an aggregate of companies linked by the same spirit whose common denominator is the Annettoni family, historical owner and founder of CEA.

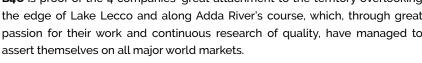
Through great synergy, **B4C** has been able to create and grow over the years an aggregate of companies that now boasts important numbers.

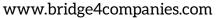


The 4 companies are: CEA, worldwide brand focused on industrial welding and plasma cutting, TECNOROBOT, specialized in customised welding robotic systems, IMET, bandsaws, circular saws and innovative systems for metal cutting, and LAMETEC, metal sheet working.

Bridge4Companies counts more than 250 employees and sales in over 100 countries.

B4C is proof of the 4 companies' great attachment to the territory overlooking the edge of Lake Lecco and along Adda River's course, which, through great passion for their work and continuous research of quality, have managed to

















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ARC CONTROL SOFTWARE



vision.ARC

vision.COLD vision.ULTRASPEED vision.POWER vision.PIPE vision.ARC is the innovative arc control which ensures outstanding welding performances with greater wire deposit, higher speed and reduced thermal dilatation.

74 years of experience in welding technology allowed CEA to develop this software for controlling arc dynamics and guarantee excellent performances in all MIG-MAG and MIG pulsed applications (vision.PULSE and dual.PULSE).

With the 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 in a few microseconds, by the control that digitally manages the short circuits typical of MIG-MAG welding, keeping the arc stable and precise in despite of any change of the external conditions.

In this way, torch movement, irregularities of parts to be welded and other factors do not influence the final result at all.

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.ARC is the support basis for special welding processes vision.MIG.



vision.ARC2

vision.COLD vision.ULTRASPEED vision.POWER

vision.PIPE

vision.PULSE-POWER vision.PULSE-RUN vision.PULSE-UP

vision.ARC2 is the evolution of the vision.ARC software for the arc control, developed by CEA to achieve a more perfect and stable arc, together with a superior correction in the control of the impulse in the PULSE welding application.

vision.ARC2 allows the power source control to operate in a more precise and faster way, thus granting an absolute constant arc and a perfect detachment of the droplet, mostly in MIG pulsed and dual pulsed.

vision.ARC2, not only supports perfectly all vision. MIG special welding processes, but also it is the software platform, which enabled the development of the new special vision.PULSE-MIG processes.



The main advantages of vision.ARC2 versus

- improved arc stability
- optimization of the impulse characteristics

the previous version are the following:

- quick and precise control of the shortcircuits, whenever welding with a very short arc
- faster welding speed
- further reduced heat input





vision.PULSE

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

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.



SPECIAL WELDING PROCESSES

MIG/MAG WELDING VISION. RC













vision.COLD for low heat transfer MIG/MAG welding

vision.ULTRASPEED to weld small and medium thickness at a far higher

speed

vision.PIPE for more accurate welding in pipe first root pass

vision.POWER to obtain deeper penetration on medium and large thickness material

PULSED MIG WELDING VISION, ARCZ









vision.PULSE-POWER

for a deeper and more flattened welding bead on medium large thickness

vision.PULSE-RUN

for a faster and colder pulse welding

vision.PULSE-UP

for a faster and more precise vertical up welding





vision.COLD

LOW HEAT TRANSFER MIG/MAG WELDING

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.

ADVANTAGES

- · Welding of high carbon and highly alloyed steel thin sheets
- · High speed in welding joints versus traditional short arc MIG/MAG
- · Very contained damage to zinc coated layer in Mig Brazing
- · Significant reduction of heat input in welding joints with minimal deformation of the workpieces
- · Lack of spatters and projections during the short circuit phase
- · Vertical up or vertical down welding with perfect edge joints

APPLICATIONS

- · Welding of thin thickness laminations with low heat transfer
- · Open gap joints in all positions
- · MIG brazing with low heat transfer
- · Welding of stainless steel





vision.ULTRASPEED

HIGH SPEED MIG/MAG WELDING

vision.ULTRASPEED is an innovative MIG/MAG process developed by CEA for welding steel and non ferrous materials which, thanks to the arc increased magnetic strength and a narrower arc cone, allows a remarkable increase in welding speed.

This process grants an inferior overheating of the base material with less shrinkage tension and consequently less workpiece reworking and finishing job.

vision.ULTRASPEED allows to replace short-arc and mixed-arc MIG/MAG with a remarkable increase in the welding job completion.

ADVANTAGES

- · Very high welding speed
- · Welding of medium thickness carbon steel, stainless and aluminium
- · Narrower welding beads with less filler material and shielding gas
- · Reduction of heat input in the welding puddle
- · Lack of spatters and projections in wire deposition

APPLICATIONS

- · Light and medium fabrication work
- · Manufacture of mild and stainless steel and aluminium
- · Automotive industry
- · Petrochemical industry
- Food industry
- · Railway wagon manufacturing
- · Small medium size tank and container construction







vision.PIPE

PIPE FIRST ROOT PASS AND OPEN GAP MIG/MAG WELDING

vision.PIPE is the innovative MIG/MAG process developed by CEA for first root pass whenever butt-joining pipes in all positions. The supplied vision.PIPE synergic programs grant extremely high quality performance with an optimized arc for welding pipes in a precise and safe way also whenever having to deal with larger size open gap joints. vision.PIPE process enables to replace MMA and TIG processes with a far shorter welding time. vision.PIPE package is also an ideal solution for welding laminations with open gap joints.

ADVANTAGES

- · Perfect and safe welding in first root pass
- · Far higher welding performance speed versus TIG & MMA processes
- · Precise arc control in welding pipes and laminations with any thickness and in all positions
- · Significant reduction of heat input in welding joints
- · Possibility of first root pass welding without any backing
- · Less care in edge beveling preparation prior to welding
- · Easy welding process, easy to learn and use
- No longer obligation of employing highly qualified personnel as imposed by TIG and MMA processes
- · Welding process continuity
- · Vertical up or vertical down welding with perfect edge joints

APPLICATIONS

- · Pipe first root pass
- · Welding open gap laminations on all positions.





vision.POWER

HIGH PENETRATION MIG/MAG WELDING

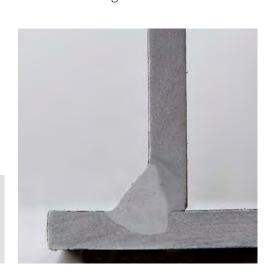
vision.POWER is the innovative MIG/MAG process developed by CEA for welding medium large thickness steel and non ferrous materials (aluminium, copper, etc.), whenever high penetration is required. By means of this special welding process, the arc cone becomes narrower, therefore its pressure is concentrated on a smaller area of the workpiece, thus heavily increasing the penetration. vision. POWER more concentrated arc is ideal for fillet welding and to enter into very narrow joints requiring a very long stick-out. vision.POWER enables to replace MIG/MAG spray arc welding with a remarkable increase in penetration and faster welding execution too.

ADVANTAGES

- · Deeper penetration at same welding current being used
- · Far higher welding speed versus spray-arc MIG/MAG process
- · Less consumption of filler material and shielded gas
- · Heat transfers heavy reduction to eliminate hot cracking in the workpiece material
- · Less welding passes thanks to reduced angle sizes in the edge beveling
- · Far less risk of different solid material inclusion into the welding bead
- · Lack of porosity and blow holes
- · No filler material over depositing in butt joints
- · Total lack of spatters and metallic projections

APPLICATIONS

- · Medium and heavy fabrication work
- · Mild steel, stainless large erection works
- \cdot Ideal for welding in narrow gaps, where longer stick out is necessary
- "T" fillet welding







vision.PULSE-UP

VERTICAL UP PULSED WELDING

vision.PULSE-UP is the newly developed special process dedicated to vertical up welding.

Thanks to the fine-tuned and well-balanced combination between MIG Pulse and a special MIG process it is now possible to affect this type of welding in an easy and economical way too, with a far greater travel speed if compared to the traditional and typical triangular welding up technique, the so called "Christmas tree".

By using vision.PULSE-UP special process, MIG Pulse grants the perfect melting of the material without any spatter or short circuits, whilst MIG process, thanks to its low heat input, allows to properly solidify and smoothly shape deposited material. Final result consists of a narrower, well-dimensioned and defect-free bead.

ADVANTAGES

- · Faster welding speed and excellent performances in vertical up
- · Straightforward welding instead of the "Christmas tree" technique
- · Perfect melting of the top edge
- · Low heat transfer on low thickness material
- · Faster welding speed versus TIG welding for first root passes

APPLICATIONS

- · Vertical up welding of all metals
- · Positional welding of medium-small thickness material
- · Large gap joint welding
- · MIG brazing with low heat transfer
- · Stainless steel welding





vision.PULSE-RUN

HIGH SPEED PULSED WELDING

vision.PULSE-RUN is the new special process appositely conceived in order to combine the advantages of pulse welding together with a faster travel speed while welding alloyed or low alloyed steel and aluminium.

The fine-tuned and well-balanced combination between MIG Pulse and vision.ULTRASPEED processes now enables to greatly increase welding job completion, while maintaining unchanged both aesthetic and metallurgical characteristics of pulse welding.

By using vision.PULSE-RUN special process, MIG Pulse grants the perfect melting of the material without any spatter or short circuits, whilst the combined use of vision.ULTRASPEED allows to reduce the heat input and to increase welding speed, thus resulting into a well-dimensioned defect-free bead obtained in a far quicker time versus traditional pulse welding.

ADVANTAGES

- · Faster welding speed (40% more versus traditional MIG pulse)
- $\cdot\,\,$ Better control of the puddle at high-speed welding
- · Low heat transfer to the workpiece
- · Better penetration

APPLICATIONS

- · Steel, stainless and aluminium component welding
- Fabrication work
- · Steel erection
- · Petrochemical
- Food industry
- · Railway wagon manufacture
- · Small dimension tanks and containers







vision.PULSE-POWER

HIGH PENETRATION PULSED WELDING

vision.PULSE-POWER is the new special process developed for welding medium-large thickness steel and non-ferrous materials, whenever high penetration, coupled with a very smooth bead, is required.

The fine-tuned and well-balanced combination between MIG Pulse and vision.POWER processes now allows to perform the welding operation in a simple and quick way with a substantial reduction of any melting defects in the puddle and even the heat affected area is greatly reduced to the minimum.

By utilizing vision.PULSE-POWER special process, MIG Pulse grants the perfect melting of the material without any spatter or short circuits, whilst vision.POWER favours a greater penetration and an increase in the welding speed, coupled with a minor heat input and an easier control on the deposited material.

The result is a very smooth, well-penetrated and defect-free bead.

Besides, by using this new process, the operator will be able to simply weld straightforward, i.e. without any torch manipulation at all.

ADVANTAGES

- Deeper penetration
- · Wide and smoothly shaped welding bead
- · Faster welding speed
- · Low heat transfer and less deformation of the workpiece material
- · No undercut at all and improved edge finishing
- · Straightforward welding technique without any torch manipulation
- · Less consumption of both filler materials and shielding gas
- · Less fume emission

APPLICATIONS

- · Positional welding of medium-large thickness material
- "T" fillet welding
- · Medium and large fabrication work
- · Heavy duty truck and vehicle manufacture
- Shipyards
- · Railway wagon fabrication
- · Large size tank and container manufacture



SPECIAL WELDING CURVES



EXTRA CURVE PACKAGE

E.C.P. is the acronym for EXTRA CURVE PACKAGE and it is a MIG special package created by CEA's welding experience in real welding scenario. This interesting solution makes available a group of additional synergic programs not included in CEA MIG synergic standard equipments. Thanks to E.C.P. it is possible to take advantage of dedicated curves for your special application and wires.



TREO / TREOSTAR / TREOSTAR PULSE

WELDING PERFORMANCE OVER THE EXPECTATION





















TREOSTAR PULSE

TREO and TREOSTAR are high performance multiprocess (MIG/MAG, MMA and TIG "Lift") single phase synergic inverter equipment.

TREOSTAR PULSE additionally enables to weld also with PULSE and DUAL PULSE.

TREO, with a simpler interface and TREOSTAR both offer high quality welding characteristics on all materials and mostly on stainless steel, aluminium and zinc coated steel, by really minimizing any reworking job caused by spatters.

Versatile, light, easy-to-carry and user friendly, TREO and TREOSTAR power sources, because of their high technological conception, are unique in any external and internal maintenance application, car body repair, agriculture and light fabrication work.



Multi-process synergic equipment

High welding performance

Great flexibility in use and portability

TREO / TREOSTAR / TREOSTAR PULSE FEATURES

- Digital control of the welding parameters with synergic curves preset according to used type of material, gas and wire diameter
- User friendly and easy-to-use selection and recalling of the parameters and welding programs
- Built-in polarity changeover facility for most common gas and gasless wires
- Control rack protection cover
- Smart "PROGRAM" key for quickly selecting any program
- Professional wire feeding mechanism with Ø 37 mm large rolls
- Double groove rolls replaceable without any tool
- "Energy saving" function to operate the power source cooling fan only when necessary (Treostar / Treostar Pulse)
- Possibility of using Ø 300 mm coils by means of the Retrofit Kit (optional)













TREOSTAR / TREOSTAR PULSE







TECHNICAL DATA			TREO 181		T	REOSTAR 1800		TREOSTAR 2000 PULSE			
TECHNICAL DATA		MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA	
Single phase input 50/60 Hz	V +10% -10%		230			230			230		
Input Power @ I ² Max	kVA	8,2	6,4	7,4	8,3	6,3	7,8	10	6,3	7,8	
Delayed Fuse (I eff)	Α		16			16			16		
Power Factor / cos Φ			0,67/0,99			0,63/0,99			0,64/0,99		
Efficiency Degree			0,82			0,80			0,80		
Open circuit voltage	V		80			60			60		
Current range	Α	15 - 180	10 - 180	10 - 160	10 - 175	5 - 175	10 - 175	10 - 200	5 - 175	10 - 175	
	A 100 %	75	75	75	100	100	90	100	100	90	
Duty cycle at (40°C)	A 60 %	100	100	100	115	115	110	115	115	110	
	A X %	180 (15%)	180 (15%)	150 (15%)	175 (20%)	175 (20%)	175 (10%)	200 (15%)	175 (20%)	175 (10%)	
Wires	Ø mm	0,6 - 1,2	-	-	0,6 - 1,2	-	-	0,6 - 1,2	-	-	
Coil	Ø mm	200max (300*)	-	-	200max (300*)	-	-	200max (300*)	-	-	
Standards					EN 60974-1 • El	N 60974-5 • EN	60974-10 - S				
Protection Class	IP		23 S			23 S			23 S		
Dimensions (L x W x H)	mm	5	00 X 220 X 425		5	00 X 220 X 425		5	00 X 220 X 425		
Weight	Kg		14,5			16			16		

^{*} optional



031162 + 420430 - Retrofit kit adaptor for Ø 300 mm wire spool kg 15



234929 - Trolley VT 101 for power source TREO 181 and cylinder





TREOSTAR / TREOSTAR PULSE

ORDER INFORMATION

CODE	DESCRIPTION	TRE0 181	TREOSTAR 1800	TREOSTAR 2000 PULSE
	POWER SOURCES WITH TORCH			
003852	Power Source TREO 181 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; complete with: C 15 3m CEA torch, 16 mm ² / 3 m Ground cable and rolls for wire Ø 0,6÷0,8 mm	•		
003867	Power Source TREOSTAR 1800 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; complete with: C 15 3m CEA torch, 16 mm ² / 3 m Ground cable and rolls for wire Ø 0,6÷0,8 mm		•	
003876	Power Source TREOSTAR 2000 PULSE 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; complete with: C 25 3m CEA torch,16 mm ² /3 m Ground cable and roll for wire Ø 0,6÷0,8 mm			•
	POWER SOURCES WITHOUT TORCH			
003851	Power Source TREO 181 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; 16 mm² / 3 m Ground cable and rolls for wire Ø 0,6÷0,8 mm	•		
003865	Power Source TREOSTAR 1800 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; 16 mm ² / 3 m Ground cable and rolls for wire Ø 0,6÷0,8 mm		•	
003875	Power Source TREOSTAR 2000 PULSE 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; 16 mm ² / 3 m Ground cable and rolls for wire Ø 0,6÷0,8 mm			•
	ALUMINIUM KIT			
031145	Aluminium Welding Kit for C 25 3m composed by Carbon-Teflon Liner - 1 roll for wire Ø 0.8-1.0			
	MIG MAG WELDING TORCHES			
020458	CEA Torch CX 251/3 3 m wire Ø 0.6÷1.0 CO2 260A @60% / Mix 200A @60%			
020459	CEA Torch CX 251/4 4 m wire Ø 0.6÷1.0 CO2 260A @60% / Mix 200A @60%			
020421	CEA Torch C 25/3 3 m wire Ø 0.6÷1.0			
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE (For other torches see mig/mag torches)			
020558	Torch RTX 17.4 4 m - 140 A 35%			
	TROLLEY			
234929	Trolley VT 101 for power source and cylinder			
	GAS REDUCERS			
020855	Reducer with 2 manometers	•	•	•
	RETROFIT FOR Ø 300 MM WIRE SPOOL			
031162	Retrofit kit adaptor for Ø 300 mm wire spool			
420430	Complete spool cover			
236590	Metallic spool adaptor			
	OTHER OPTION[S]			
460281	3+2 m 16 mm²cables with electrodeholder pincer, ground clamp and 50mm² connections brush/hammer - shield with lens			
201752	Kit of 2 male 50 mm ² safety connections			
	TREO 181 Suggested air cooled version with torch	•		
	TREOSTAR 1800 Suggested air cooled version with torch		•	
	TREOSTAR 2000 PULSE Suggested air cooled version with torch			•



SMARTCAR / SMARTCAR PULSE

SPECIAL DESIGN FOR AN INNOVATIVE COMPACT EQUIPMENT



















SMARTCAR PULSE

SMARTCAR 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 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.

SMARTCAR PULSE because of its additional 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.



Innovative smart design

New ergonomic level

Excellent welding quality

SMARTCAR / SMARTCAR PULSE **FEATURES**

- Wire spool holder and feeding assembly placed in the upper part of the generator in an ergonomic position
- Digital control with synergic curves preset according to used type of material, gas and wire.
- Easy-to-use selection and recalling of the parameters and welding programs
- Interface panel duly protect by a cover
- 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" function to operate the power source cooling fan only when necessary

SPECIAL WELDING PROCESS

Standard included in SMARTCAR 271 – 275 PULSE



vision.COLD

To weld thickness laminations with





















TECHNICAL DATA		SMARTO	CAR 201 - SMARTCAR 20	5 PULSE	SMARTC	AR 271 - SMARTCAR 275	5 PULSE
TECHNICAL DATA		MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA
Single phase input 50/60 Hz	V +10% -10%		230		-	-	-
Three phase input 50/60 Hz	V +10% -10%	-	-	-		400	
Input Power @ 12 Max	kVA	10	6,3	7,1	11	8,5	11
Delayed Fuse (I eff)	Α		16		16	10	16
Power Factor / cos φ		0,64/0,99	0,64/0,99	0,64/0,99	0,74/0,99	0,69/0,99	0,77/0,99
Efficiency Degree			0,80			0,89	
Open circuit voltage	V	60	60	60	60	60	60
Current range	A	10 - 200	5 - 175	10 - 175	10 - 270	5 - 270	10 - 270
	A 100 %	100	100	90	180	180	180
Duty cycle at (40°C)	A 60 %	115	115	110	200	200	200
	A X %	200 (15%)	175 (20%)	175 (10%)	270 (30%)	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 6097	4-5 • EN 60974-10• S		
Protection Class	IP	23 S 23 S					
Dimensions (L x W x H)	mm		960 x 420 x 385			960 x 420 x 385	
Weight	Kg		42			47	





Professional double groove feeding mechanism with 4 rolls





ORDER INFORMATION

			SMAR	TCAR		
CODE	DESCRIPTION	201	205 PULSE	271	275 PULSE	
	POWER SOURCES					
007251	Power Source SMARTCAR 201 230V-1 ph 4 rolls for Ø 300 mm wire spool	•				
007253	Power Source SMARTCAR 205 PULSE 230V-1 ph 4 rolls for Ø 300 mm wire spool		•			
007260	Power Source SMARTCAR 271 400V-3 ph 4 rolls for Ø 300 mm wire spool (*)			•		
007265	Power Source SMARTCAR 275 PULSE 400V-3 ph 4 rolls for Ø 300 mm wire spool (*)				•	
	(*) Vision.COLD process and ECP integrated as a standard in the SMARTCAR 271 and 275 Pulse					
	All SMARTCAR are supplied with 4 rolls for wire Ø 0,8 ÷ 1,0 mm					
	MIG MAG WELDING TORCHES					
020458	CEA Torch CX 251/3 3m - wire: Ø 0,6÷1.0 CO2 260A @60% / Mix 200A @60%	•	•	•	•	
020459	CEA Torch CX 251/4 4m - wire: Ø 0,6÷1.0 CO2 260A @60% / Mix 200A @60%					
	For other torches see mig/mag torches					
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE					
020568	Torch RTA 26.44 m - 180 A 35% (suitable for 50 / 70 mm ² safety connections)					
	GROUND CABLES					
239601	35 mm ² / 4 m Ground cable with clamp	•	•	•	•	
	GAS REDUCERS					
020855	Reducer with 2 manometers	•	•	•	•	
	OTHER OPTION[S]					
236590	Metallic spool adaptor					
460292	4+3 m 35 mm ² cables with electrodeholder pincer, ground clamp and 50mm ² safety connections - brush/hammer - shield with lens					
	SMARTCAR 201 Suggested air cooled version with torch	•				
	SMARTCAR 205 PULSE Suggested air cooled version with torch		•			
	SMARTCAR 271 Suggested air cooled version with torch			•		
	SMARTCAR 275 PULSE Suggested air cooled version with torch				•	



CONVEX MOBILE / CONVEX MOBILE PULSE

THE ALLROUNDER THAT EXCEED YOUR WELDING LIMITS























CONVEX MOBILE PULSE

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 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.

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.



Ultra-compact, light and powerful

Excellent welding performance

Multi-process and synergic control

CONVEX MOBILE / CONVEX MOBILE PULSE **FEATURES**

- Digital control with synergic curves preset according to used type of material, gas and wire
- User friendly and easy-to-use parameters' and welding programs' selection and recalling
- 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
- Initial and final crater control
- Possibility to use Up/Down torches















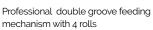






TECHNICAL DATA		CONVEX MOB	ILE 201 / CONVEX MOBI	LE 205 PULSE	CONVEX MOBI	LE 251 / CONVEX MOBIL	E 255 PULSE	
TECHNICAL DATA		MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA	
Single phase input 50/60 Hz	V +15% -15%		230		-	-	-	
Three phase input 50/60 Hz	V +15% -15%	-	-	-		400		
Input Power @ I2 Max	kVA	6	4,6	7,1	10	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	
	A 100 %	105	105	105	180	180	180	
Duty cycle at (40°C)	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	1-5 • EN 60974-10• S			
Protection Class	IP		23 S		23 S			
Dimensions (L x W x H)	mm		650 x 300 x 388			650 x 300 x 388		
Weight	Kg		20			21		







CT 401 gas cylinder trolley with watercooling and storage only for CONVEX MOBILE 3PH



SPECIAL WELDING PROCESS

Standard included in CONVEX MOBILE 205 PULSE CONVEX MOBILE 251 CONVEX MOBILE 255 PULSE



vision.COLD

To weld thickness laminations with low heat transfer

ORDER INFORMATION

			CONVEX	MOBILE	
CODE	DESCRIPTION	201	205 PULSE	251	255 PULSE
		AIR	AIR	AIR WATER	AIR WATER
	POWER SOURCES				
005000	Power Source CONVEX MOBILE 201 230V-1 ph for Ø 300 mm wire spool	•			
005005	Power Source CONVEX MOBILE 205 PULSE 230V-1 ph for Ø 300 mm wire spool (*)		•		
004785	Power Source CONVEX MOBILE 251 400V-3 ph for Ø 300 mm wire spool (*)			● ≋	
004780	Power Source CONVEX MOBILE 255 PULSE 400V-3 ph for Ø 300 mm wire spool (*)				● ≋
	(*) vision.COLD process and ECP integrated as a standard				
	ALUMINIUM ROLL KIT				
030866	Aluminium Kit of Single grooved TWIN rolls (0: 1,0)				
030867	Aluminium Kit of Single grooved TWIN rolls (0: 1,2)				
	MIG MAG WELDING TORCHES				
020458	CEA Torch CX 251/3 3 m wire Ø 0.6÷1.2 CO2 260A @60% / Mix 200A @60%	•	•	•	•
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled CO2 300A @100% / Mix 250A @100%			_ ≋	_ ≋
	For other torches see mig/mag torches				
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE				
020568	Torch RTA 26.44 m - 180 A 35% (suitable for 50 / 70 mm ² safety connections)				
	WATER COOLING				
032098	Water cooling equipment HR 32 400 V			_ ≋	_ ≋
402275A	Cea CL-1100 cooling liquid - 5 l Tank			≋	≋
	TROLLEY				
234931	Trolley CT 401 for power source and cylinder	•	•	● ≋	● ≋
449478	Adaptor support plate for CONVEX MOBILE mounted on CT 401	•	•	● ≋	● ≋
344013	Accessory BOX kit (to be ordered only with HR 32/30)				
031007	WK 2 extra-large wheels kit				
	GROUND CABLES				
239601	35 mm ² / 4 m Ground cable with clamp	•	•	● ≋	● ≋
	GAS REDUCERS				
020855	Reducer with 2 manometers	•	•	● ≋	● ≋
020916	Reducer with flowmeter and 1 manometer				
	OTHER OPTION[S]				
460292	4+3 m 35 mm ² cables with electrodeholder pincer, ground clamp, 50mm ² safety connections, brush/hammer shield with lens				
236590	Metallic spool adaptor				
201752	Kit of 2 male 50 mm ² safety connections				
	CONVEX MOBILE 201 Suggested air cooled version with torch	•			
	CONVEX MOBILE 205 Pulse Suggested air cooled version with torch		•		
	CONVEX MOBILE 251 Suggested air cooled version with torch			•	
	CONVEX MOBILE 251 Suggested water cooled version with torch			≋	
	CONVEX MOBILE 255 Pulse Suggested air cooled version with torch				•
	CONVEX MOBILE 255 Pulse Suggested water cooled version with torch				≋



CONVEX / CONVEX PULSE

GREAT WELDING EQUIPMENT FOR PROFESSIONAL WELDERS



















CONVEX PULSE

CONVEX and CONVEX PULSE are multiprocess compact power sources for welding in MIGMAG, MMA and TIG with "Lift" mode. Technologically ahead, robust and easy-to-use, they offer excellent quality welding in MIG/MAG and, only for CONVEX PULSE models, also in PULSED MIG and in DUAL PULSE.

The CONVEX and CONVEX PULSE equipment allow also less experienced operators to easily adjust all welding parameters in an intuitive way. Once the wished program is selected, the welding control automatically determines the best parameters based on the material type, wire diameter and gas.

These power sources represent the best choice in all industrial fields for all qualified applications requiring high precision and repeatability of the welding results especially in light fabrication work and car body repair.



Simple, powerful and compact Multi-process with great performance Special mig welding process possibility



















CONVEX / CONVEX PULSE **FEATURES**

- Multiprocess power sources: MMA TIG LIFT MIG/MAG Synergic & Manual and for CONVEX PULSE: PULSED MIG and DUAL PULSE
- Digital control of the welding parameters with preset synergic curves
- Smart PROGRAM key for quickly selecting any program
- Lodging for wire spools up to Ø 300 mm
- · Feeding mechanism with 4 rolls of large diameter for a precise and constant wire driving
- Double groove rolls replaceable without any tool
- "Energy saving" function to operate the power source cooling fan and torch water cooling only when necessary
- Excellent arc striking always precise and efficient
- Ability to partially or totally lock the equipment with access key by password
- Control rack protection cover
- Initial and final crater control







BURN-BACK CONTROL

At the end of each weld, in any condition and with any metal, the digital control ensures a perfect wire cut thus avoiding the formation of the typical "wire globule" by ensuring the subsequent best arc striking.



WSC - WIRE START CONTROL

WSC wire start control prevents any possible wire sticking to the workpiece or torch nozzle, by always ensuring a precise and "soft" arc striking.

DUAL-PULSED (CONVEX 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.





TWO AVAILABLE VERSIONS: STANDARD and PREMIUM

CONVEX and CONVEX PULSE models are available in either STANDARD configurations, designed for the most common welding applications, or PREMIUM configurations, also providing the innovative vision.COLD and vision.ULTRASPEED processes, dedicated to anyone looking for a higher performance welding equipment with maximum flexibility on different materials.

STANDARD PACKAGE

Standard fitted with:

SYNERGIC PROGRAMS Fe - CrNi - AlMg - AlSi

PREMIUM PACKAGE

Standard fitted with:

SYNERGIC PROGRAMS Fe - CrNi - AlMg - AlSi - CuSi3 - AlBz8 - FCW (Rutil - Basic - Metal) Duplex - Super Duplex



vision.COLD for low heat transfer MIG/MAG welding



vision.ULTRASPEED to weld small and medium thickness at a far higher speed



ECP Extra Curve Package

TECHNICAL DATA		CON	IVEX	CONVE	EX PULSE
TECHNICAL DATA		321	401	325	405
Three Phase input 50/60 Hz	V +10% -10%	400	400	400	400
Input Power @ I2 Max	kVA	13	17,8	17	23,7
Delayed Fuse (I eff)	A	20	25	20	25
Power Factor / cos φ		0,87/0,99	0,90/0,99	0,70/0,99	0,70/0,99
Efficiency Degree		0,87	0,87	0,87	0,87
Open circuit voltage	V	63	63	63	63
Current range	A	10 - 320	10 - 400	10 - 320	10 - 400
	A 100 %	280	300	280	300
Duty cycle at (40°C)	A 60 %	300	350	300	350
	A X %	320 (40%)	400 (40%)	320 (40%)	400 (40%)
Wires	Ø mm	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2
Coil	Ø mm	300	300	300	300
Standards			EN 60974-1 • EN 6097	74-5 • EN 60974-10 S	
Protection Class	IP	23 S	23 S	23 S	23 S
Dimensions (L x W x H)	mm	660 x 290 x 515	660 x 290 x 515	660 x 290 x 515	660 x 290 x 515
Weight	Kg	41	42	42	43

ORDER INFORMATION

CODE	DESCRIPTION	CON 32 COOL AIR	21	CONVEX 325 COOLING ER AIR WATER		401 P C00	VEX ULSE LING WATER	CON' 405 P COOL	ULSE
	POWER SOURCES							•	
004640	Power Source CONVEX 321 400V (4 rolls for wire Ø 0,8 ÷ 1,0 mm)	•	≈						
004645	Power Source CONVEX 401 400V (4 rolls for wire Ø 1,0÷1,2 mm)					•	≈		
004825	Power Source CONVEX 325 PULSE 400V (4 rolls for wire Ø 0,8÷1,0 mm)			•	≈				
004830	Power Source CONVEX 405 PULSE 400V (4 rolls for wire Ø 1,0÷1,2 mm)							•	≋
	STANDARD MODELS include Programs for Fe - CrNi - Al and TIG / MMA functions								
	PREMIUM VERSION - POWER SOURCES								
004640PR									
004645PR	Power source CONVEX 401 PREMIUM 400V (4 rolls for wire Ø 1,0 ÷ 1,2 mm)								
004825PR	Power source CONVEX 325 PULSE PREMIUM 400V (4 rolls for wire Ø 0,8÷1,0 mm)								
004830PR	(-			
	PREMIUM MODELS include already install vision.COLD - vision.ULTRASPEED and ECP					-			
	ALUMINIUM ROLL KIT			-		-			
030866	Aluminium Kit of Single grooved TWIN rolls (Ø: 1,0)			1		-			
030867	Aluminium Kit of Single grooved TWIN rolls (0: 1,2)								
	MIG MAG WELDING TORCHES								
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 CO2 340A@60%/Mix 290A @60%	•		•		•		•	
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled CO2 300A@100%/Mix 250A @100%		≋		≋		≋		
020479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled CO2 500A@100%/Mix 450A @100%								≋
	For other torches see mig/mag torches								
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE								
020568	Torch RTX 26.4 4 m - 180 A 35%								
	WATER COOLING								
032098	Water cooling equipment HR 32 400 V		≋		≋		≋		≋
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		≋		≋	$\overline{}$	≋
	TROLLEY			ĺ					
234909	Trolley CT 45 for power source, cylinder	•	≋	•	≋	•	≋	•	≋
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)								
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)								
	GROUND CABLE								
239603	50 mm ² / 4 m Ground cable with clamp	•	≋	•	≋	•	≈	•	≋
	GAS REDUCERS								
020855	Reducer with 2 manometers	•	≈	•	≈	•		•	≋
020916	Reducer with flowmeter and 1 manometer								
	OTHER OPTION[S]								
236590	Metallic spool adaptor								
020340	Autotransformer A 13-H 220V/400V-50/60Hz - 3 Phase (to be ordered with CT 70)					-			
	4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² safety								
460262	connections brush/hammer - shield with lens								
	CONVEX 321 Suggested air cooled version with torch	•							
	CONVEX 321 Suggested all cooled version with torch		~						
			≋						
	CONVEX 325 PULSE Suggested air cooled version with torch			•					
	CONVEX 325 PULSE Suggested water cooled version with torch				≋				
	CONVEX 325 PULSE Suggested water cooled version with torch CONVEX 401 Suggested air cooled version with torch				~	•			
	CONVEX 325 PULSE Suggested water cooled version with torch				~	•	≈	•	



DOGMA / DOGMA PULSE

THE FIRST - THE GAME CHANGER



















DOGMA PULSE

DOGMA is an innovative welding equipment that barges into the multi-process compact MIG market for the first time in the world.

DOGMA's concept breaks from tradition with its game changing design.

DOGMA is born with the welder's comfort at the centre of its development, keeping CEA's distinctive quality: every feature is aimed to reduce and simplify the operator's preparation time and tasks for a better satisfaction which leads to greater results.

DOGMA is unique and unparalleled in its ability to combine an ergonomic design, together with excellent welding characteristics thanks to its precise and stable arc control. This makes **DOGMA** perfect for all qualified welding applications in all industrial sectors.

DOGMA are standard equipped with the new X VISION interface, simple and complete, for the total control and monitoring of all the welding parameters.

DOGMA offers the possibility to weld in synergic MIG/MAG, TIG Lift and MMA; in addition, DOGMA are also available in the **DOGMA PULSE** version with Pulse and Dual-Pulse welding processes.



Innovative, unique, unparalleled Exceptional welding quality

New level of Ergonomics

















PATENT PENDING: PA102974IT01





DOGMA **INNOVATIVE DESIGN**

- Easy-to-load wire coil thanks to the spool holder's top frontal ergonomic position
- Easy to control and insert welding wire into the feeding mechanism thanks to its high frontal position
- Great frontal visibility of the wire feeder compartment and control interface at first glance
- Interface control panel in an inclined frontal position
- The equipment's vertical development saves space and floor area
- High position of the torch connector with inclined exit to optimize the welding wire's flow
- Feeding rolls compartment next to the wire feeding mechanism for quick replacement
- Water cooling equipment integrated in the power source (W version)

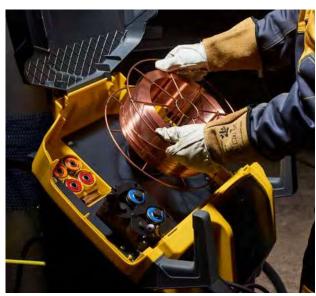


OCCUPATION

DOGMA FEATURES

- Multi-process power sources: MMA TIG LIFT MIG/MAG Synergic & Manual and for DOGMA PULSE: PULSED MIG and DUAL PULSE
- Digital control of the welding parameters with preset synergic curves
- Feeding mechanism with 4 rolls of large diameter for a precise and constant wire driving
- Double groove rolls replaceable without any tool
- "Energy saving" function to operate the power source cooling fan and torch water cooling only when necessary
- Excellent arc striking always precise and efficient
- Ability to partially or totally lock the equipment with access key by password









X VISION CONTROL DISPLAY

X Vision control display with "TWO CLICK KNOB" encoders for the pre-setting and monitoring of all the welding parameters:

- User friendly interface
- Welding mode "cycle"
- · Personalized welding program storing and recalling
- Possibility of copying job/s easily from one machine to another via USB
- Advance setting infographic



WELDING MODE



WELDING SETTING MODE



ADVANCE JOB MANAGEMENT



DOGMA PACKAGE

DOGMA XV and **DOGMA XV PREMIUM** are available with the innovative vision.COLD and vision.ULTRASPEED processes, dedicated to anyone looking for a higher performance welding equipment with maximum flexibility on different materials.

DOGMA PULSE XV

Standard fitted with:

SYNERGIC PROGRAMS Fe - CrNi - AlMg - AlSi

DOGMA XV / DOGMA PULSE XV PREMIUM

Standard fitted with:

SYNERGIC PROGRAMS Fe - CrNi - AlMg - AlSi - CuSi3 - AlBz8 - FCW (Rutil - Basic - Metal) Duplex - Super Duplex



vision.COLD for low heat transfer MIG/MAG welding

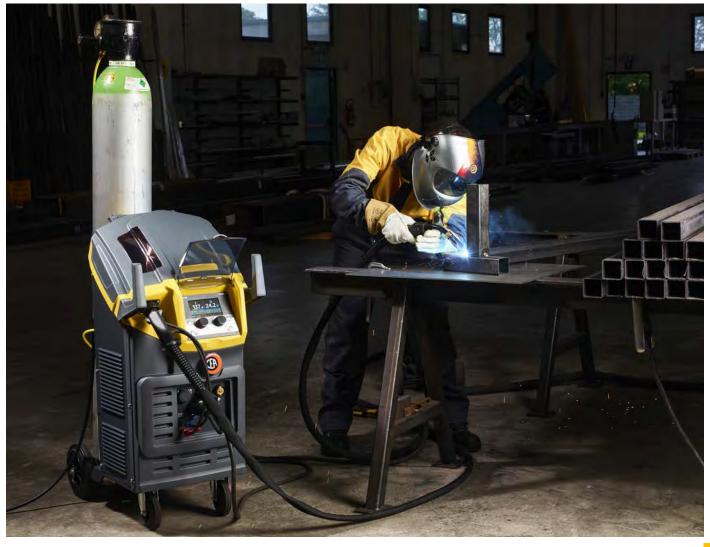


vision.ULTRASPEED to weld small and medium thickness at a far higher speed



ECP Extra Curve Package

TECHNICAL DATA			DOGMA XV			DOGMA PULSE XV	
I LOTINICAL DATA		272 / 272 W	322 / 322 W	402 / 402 W	276 / 276 W	326 / 326 W	406 / 406 W
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400	400	400
Input Power @ I ² Max	kVA	11,0	12,6	16,8	11,0	12,6	17,3
Delayed Fuse (I eff)	A	16	16	20	16	16	20
Power Factor / cos φ		0,74/0,99	0,87/0,99	0,92/0,99	0,74/0,99	0,87/0,99	0,92/0,99
Efficiency Degree		0,89	0,88	0,88	0,89	0,88	0,88
Open circuit voltage	V	60	63	63	60	63	63
Current range	A	10 - 270	10 - 320	10 - 400	10 - 270	10 - 320	10 - 400
	A 100 %	180	240	300	180	240	300
Duty cycle at (40°C)	A 60 %	200	270	340	200	270	340
	A X %	270 (30%)	320 (35%)	400 (35%)	270 (30%)	320 (35%)	400 (35%)
Wire	Ø mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6
Standards				EN 60974-1 • EN 6097	4-5 • EN 60974-10• S		
Protection Class	IP	21	21	21	21	21	21
Dimensions (L x W x H)	mm	792 x 463 x 1047	792 x 463 x 1047	792 x 463 x 1047	792 x 463 x 1047	792 x 463 x 1047	792 x 463 x 1047
Weight	Kg	45 / 54 (W)	48 / 57 (W)	53 / 62 (W)	45 / 54 (W)	48 / 57 (W)	53 / 62 (W)



ORDER INFORMATION

				DOGN	/IA XV		
CODE	DESCRIPTION	272	272 W	322	322 W	402	402 W
		AIR	WATER	AIR	WATER	AIR	WATER
	POWER SOURCES						
004621	Power Source DOGMA 272 XV 400V (4 rolls for wire Ø 0,8÷1,0 mm)	•		1			
004622	Power Source DOGMA 322 XV 400V (4 rolls for wire Ø 0,8÷1,0 mm)			•			
004623	Power Source DOGMA 402 XV 400V (4 rolls for wire Ø 1,0÷1,2 mm)					•	
004626	Power Source DOGMA 272 W XV water cooled 400V (4 rolls for wire Ø 0,8÷1,0 mm)		≋				
004627	Power Source DOGMA 322 W XV water cooled 400V (4 rolls for wire Ø 0,8÷1,0 mm)				≋		
004628	Power Source DOGMA 402 W XV water cooled 400V (4 rolls for wire Ø 1,0÷1,2 mm)						≋
	vision.COLD and vision.ULTRASPEED process and ECP integrated as a standard in						
	all DOGMA 272 - 322 - 402						
	ALUMINIUM KIT						
030866	Aluminium Kit of Single grooved TWIN rolls (0: 1,0)						
030867	Aluminium Kit of Single grooved TWIN rolls (0: 1,2)						
	MIG MAG WELDING TORCHES						
020458	CEA Torch CX 251/3 3m - wire: Ø 0,6 ÷ 1.0 CO2 260A @60% / Mix 200A @60%	•					
020465	CEA Torch CX 353/4 4m - wire: Ø 0,8 ÷ 1.2 CO2 340A @60% / Mix 290A @60%			•		•	
020472	CEA Torch CXH 302/4 4m - wire: Ø 0,8÷1.2 water cooled CO2 300A @100% / Mix 250A @100%		≋		≋		
020479	CEA Torch CXH 402/4 4m - wire: Ø 0,8÷1.6 water cooled CO2 500A @100% / Mix 450A @100%						_ ≋
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8÷1,2 water cooled (to be ordered w. 031113)						
031113	Push Pull Synchronizer PC Board KIT 24/42 V (to be ordered with Push Pull torch)						
	For other torches see mig/mag torches						
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE						
020568	Torch RTX 26.4 4 m - 180 A 35%						
	GROUND CABLES						
239601	35 mm ² / 4 m Ground cable with clamp	•	≋				
239603	50 mm ² / 4 m Ground cable with clamp			•	≋	•	≅
	GAS REDUCERS						
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋	•	≋
	OTHER OPTION[S]						
236590	Metallic spool adaptor						
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		≋		≋
	DOGMA 272 XV Suggested air cooled version with torch	•					
	DOGMA 272 W XV Suggested water cooled version with torch		≋				
	DOGMA 322 XV Suggested air cooled version with torch			•			
	DOGMA 322 W XV Suggested water cooled version with torch				≋		
	DOGMA 402 XV Suggested air cooled version with torch					•	
	DOGMA 402 W XV Suggested water cooled version with torch						≋

ORDER INFORMATION

		DOGMA PULSE XV							
CODE	DESCRIPTION	276	276 W	326	326 W	406	406 W		
		AIR	WATER	AIR	WATER	AIR	WATER		
	POWER SOURCES								
004855	Power Source DOGMA 276 PULSE XV 400V (4 rolls for wire Ø 0,8÷1,0 mm)	•							
004860	Power Source DOGMA 326 PULSE XV 400V (4 rolls for wire Ø 0,8÷1,0 mm)			•					
004865	Power Source DOGMA 406 PULSE XV 400V (4 rolls for wire Ø 1,0÷1,2 mm)		1		1	•			
004870	Power Source DOGMA 276 W PULSE XV water cooled 400V (4 rolls for wire Ø 0,8÷1,0 mm)		≅						
004875	Power Source DOGMA 326 W PULSE XV water cooled 400V (4 rolls for wire Ø 0,8÷1,0 mm)				€				
004880	Power Source DOGMA 406 W PULSE XV water cooled 400V (4 rolls for wire Ø 1,0÷1,2 mm)						≈		
	STANDARD MODELS include Programs for Fe - CrNi - Al and TIG / MMA functions								
	PREMIUM VERSION - POWER SOURCES								
004855PR	Power Source DOGMA 276 PULSE XV PREMIUM 400V (4 rolls for wire Ø 0,8÷1,0 mm)								
004860PR	Power Source DOGMA 326 PULSE XV PREMIUM 400V (4 rolls for wire Ø 0,8÷1,0 mm)								
004865PR	Power Source DOGMA 406 PULSE XV PREMIUM 400V (4 rolls for wire Ø 1,0÷1,2 mm)		1		1				
004870PR	Power Source DOGMA 276 W PULSE XV PREMIUM water cooled 400V (4 rolls for wire Ø 0,8÷1,0 mm)								
004875PR	Power Source DOGMA 326 W PULSE XV PREMIUM water cooled 400V (4 rolls for wire Ø 0,8÷1,0 mm)								
004880PR	Power Source DOGMA 406 W PULSE XV PREMIUM water cooled 400V (4 rolls for wire Ø 1,0÷1,2 mm)								
	PREMIUM MODELS included already install - vision.COLD, vision.ULTRASPEED process and ECP								
	ALUMINIUM KIT								
030866	Aluminium Kit of Single grooved TWIN rolls (Ø: 1,0)								
030867	Aluminium Kit of Single grooved TWIN rolls (0: 1,2)								
	MIG MAG WELDING TORCHES		1						
020458	CEA Torch CX 251/3 3m - wire: Ø 0,6÷1.0 CO2 260A @60% / Mix 200A @60%	•							
020465	CEA Torch CX 353/4 4m - wire: Ø 0,8÷1.2 CO2 340A @60% / Mix 290A @60%			•		•			
020472	CEA Torch CXH 302/4 4m - wire: Ø 0,8÷1.2 water cooled CO2 300A @100% / Mix 250A @100%		€		≋				
020479	CEA Torch CXH 402/4 4m - wire: Ø 0,8÷1.6 water cooled CO2 500A @100% / Mix 450A @100%						€		
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8÷1,2 water cooled (to be ordered w. 031113)								
031113	Push Pull Synchronizer PC Board KIT 24/42 V (to be ordered with Push Pull torch)								
	For other torches see mig/mag torches								
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE		1		1				
020568	Torch RTX 26.4 4 m - 180 A 35%								
	GROUND CABLES		1		1	1			
239601	35 mm ² / 4 m Ground cable with clamp	•	≈ =		1				
239603	50 mm ² / 4 m Ground cable with clamp		-	•	€	•	€		
	GAS REDUCERS		1						
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋	•	≋		
	OTHER OPTION[S]		1		1	1			
236590	Metallic spool adaptor		1		1				
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≈ =		≅		≅		
	DOGMA 276 PULSE XV Suggested air cooled version with torch	•							
	DOGMA 276 W PULSE XV Suggested water cooled version with torch		≋						
	DOGMA 326 PULSE XV Suggested air cooled version with torch			•					
	DOGMA 326 W PULSE XV Suggested water cooled version with torch				≈				
	DOGMA 406 PULSE XV Suggested air cooled version with torch					•			
	DOGMA 406 W PULSE XV Suggested water cooled version with torch	1					≋		



MAXI i

THE BEST SOLUTION FOR THE MOST COMMON WELDING CHALLENGES



MAXI i inverters represent the evolution of the conventional step adjustment MIG equipment, with a modern inverter integrated into a sturdy metallic structure and a simple control, which always grants good welding performances.

MAXI i keep exactly the adjustment simplicity of the conventional MIG equipment, with two single knobs to set Voltage and Wire speed offering the pleasure to set welding parameters as wished.

MAXI i represent an optimal choice for industrial applications, medium and large fabrication work where a simple, strong and easy-to-use equipment is needed for replacement of the old step adjustment MIG equipment with a much higher energy efficiency.



Simple, strong, and reliable Good welding performance Higher energy efficiency













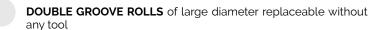
MAXI i FEATURES

- Very good arc characteristics, optimized for most common materials.
- Great robustness due to solid metallic main structure
- "Energy saving" function to operate the power source cooling fan and torch water cooling only when necessary
- · Excellent arc striking always precise and efficient
- Reduced energy consumption
- MAXI i W's are fitted with an integrated water cooling unit for the torch
- Long interconnecting cable are available for MAXII equipment in the air cooled version over 50 m



WIRE FEEDER WF 6





WIRE SPOOLS up to Ø 300 mm

INSPECTION WINDOW in the spool cover

2/4 STROKE selector switch

BURN-BACK and MOTOR RAMP adjustments for a precise arc striking







SWF STRONG FEEDER

SWF feeders, with robust suitcase, ideal for site jobs and harshest environments. They can be used for wires spools up to 0 300 mm.



FSC - Fast Start Control

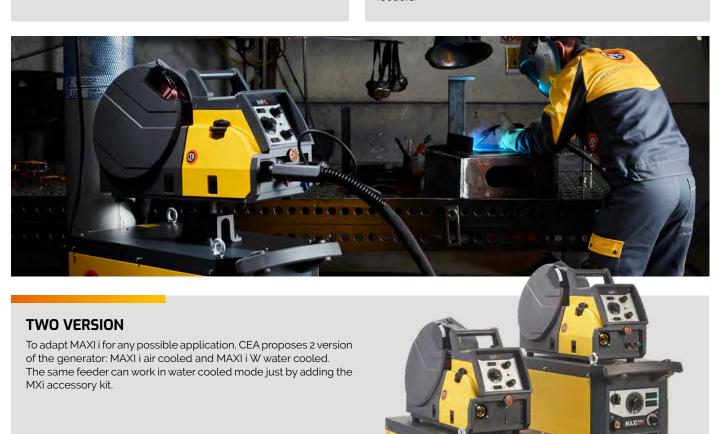
It is the innovative arc striking control that reduces drastically the ignition time. By this new technology it is possible to have a quick and perfect ignition at every start.

This is ideal for spot-welding and pre-assembly of components.

INTERCHANGEABLE WITH OLD FEEDER

 $\mbox{\sc Maxi}$ i's power sources are interchangeable with MAXI's step adjustment.

This means that they can work with the same interconnecting cable of CEA step adjustment MAXI equipment and their wire feeders.



MAXI i air cooled

MAXI i W water cooled

TECHNICAL DATA		MAXI i					
TECHNICAL DATA		406	406 W	506	506 W		
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400		
Input Power @ I ² Max	kVA	17	17,5	23,5	24		
Delayed Fuse (I eff)	A	16	16	20	20		
Power Factor / cos φ		092 / 0,99	0,92 / 0,99	0,94 / 0,99	0,94 / 0,99		
Efficiency Degree		0,87	0,87	0,87	0,87		
Open circuit voltage	V	50	50	56	56		
Current range	A	20 - 400	20 - 400	20 - 500	20 - 500		
	A 100 %	230	230	330	330		
Duty cycle at (40°C)	A 60 %	320	320	400	400		
	A 35 %	400	400	500	500		
Wire	Ø mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6		
Standards			EN 60974-1 • EN 60974	4-5 • EN 60974-10• S			
Protection Class	IP	23 S	23 S	23 S	23 S		
Dimensions (L x W x H)	mm	1000 x 500 x 710	1000 x 500 x 930	1000 x 500 x 710	1000 x 500 x 930		
Weight	Kg	56	70	58	72		

CODE	DESCRIPTION	MAXI i 400 AIR	MAXI i 400 W Water	MAXI i 500 Air	MAXI i 500 W Water
	POWER SOURCES				
006170	Power source MAXI 406 i 400 V 3 phase	•		1	
006175	Power source MAXI 406 i W 400 V 3 phase		≋	1	
006180	Power source MAXI 500 i 400 V 3 phase			•	
006185	Power source MAXI 500 i W 400 V 3 phase				*
	INTERCONNECTING CABLES				
010930	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	•		•	
010935	5 m Air cooled Interconnecting cable Power source-Wire feeder				
010940	10 m Air cooled Interconnecting cable Power source-Wire feeder				
010945	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋		*
010950	5 m Water cooled Interconnecting cable Power source-Wire feeder				
010955	10 m Water cooled Interconnecting cable Power source-Wire feeder				
	WIRE FEEDERS				
030636	Closed Wire Feeder WF 6 with Euro connect. 4 rolls (0: 1,0 / 1,2)	•	≋	•	*
030635	Closed Wire Feeder WF 5 with Euro connect. 4 rolls (0: 1,0 / 1,2)				
031009	Accessories type: "MXi" to connect water cooled interconnecting cable to the wire feeder		≋		*
031116	WK 4 standard wheels kit for WF 6 feeder				
031007	WK 2 extra-large wheels kit for WF 6 feeder				
030927	Wheels Kit for WF 5 with additional fastening plate (code 030887) to fix interconnecting cable				
030887	Fastening plate to fix interconnecting cable to WF 5 (already included into 030927 wheels kit)				
030755	Closed Wire Feeder SWF STRONG FEEDER with Euro Connect. 4 rolls (0: 1,0 / 1,2)				
	ALUMINIUM KIT				
030895	Aluminium Kit of double grooved TWIN rolls (Ø: 0,8 / 1,0) and gears kit for Al wires				
030897	Aluminium Kit of double grooved TWIN rolls (0: 1,0 / 1,2) and gears kit for Al wires				
030899	Aluminium Kit of double grooved TWIN rolls (0: 1,2 / 1,6) and gears kit for Al wires				
	MIG MAG WELDING TORCHES				
020466	CEA Torch CX 353/4 4m - wire: Ø 0,8÷1.2 CO2 340A @60% / Mix 290A @60%	•		•	
020471	CEA Torch CX 451/4 4m - wire: Ø 0,8÷1.6 CO2 400A @60% / Mix 300A @60%				
020472	CEA Torch CXH 302/4 4m - wire: Ø 0,8÷1.2 water cooled - C02 300A @100% / Mix 250A @100%				
020479	CEA Torch CXH 402/4 4m - wire: Ø 0,8÷1.6 water cooled - C02 500A @100% / Mix 450A @100%		≋		≋
	For other torches see mig/mag accessories				
	GROUND CABLES				
239603	50 mm ² / 4 m Ground cable with clamp	•	≋	•	. ≋
	GAS REDUCERS				
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋
	OTHER OPTION[S]				
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		*
236590	Metallic spool adaptor				
	MAXI i 400 Suggested air cooled version with torch	•			
	MAXI i 400 W Suggested water cooled version with torch		≋		
	MAXI i 500 Suggested air cooled version with torch			•	
	MAXI i 500 W Suggested water cooled version with torch				≋



MAXIQ

SOMETHING DIFFERENT IN THE WELDING MARKET



MAXIQ represent the logic evolution of the conventional step adjustment MIG equipment. with a modern inverter integrated into a sturdy metallic structure and a simple and innovative digital control which will always grant high quality welding performances.

MAXIQ keep the adjustment simplicity of the conventional MIG equipment, with two single knobs to set Voltage and Wire Speed, offering so the pleasure to set welding parameters as wished; this without any preselected synergic programs choosing the parameters on your behalf.

MAXIQ also allow to weld with the HYBRID SYNERGIC^R mode which always detect the best feedback during the whole welding process, thus granting the same welding performances as the most modern equipment also in manual MIG mode.

These power sources represent the best choice in all industrial fields for all qualified applications, such as medium and large fabrication work, shipyards and steel erection



Simple and strong

Hybrid synergic R control

Great welding performance











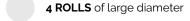


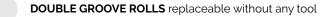


MAXIQ FEATURES

- $\bullet~$ Two MIG/MAG welding modes: MANUAL and HYBRID SYNERGIC $^{\rm R}$
- · All parameters digitally controlled directly from the wire feeder
- "HYBRID SYNERGIC PRE SET" key for the best welding characteristic according to used type of material and wire
- "Energy saving" function to operate the power source cooling fan and torch water cooling only when necessary
- · Excellent arc striking always precise and efficient
- Final crater control
- Burn-Back control
- MAXIQ W is fitted with an integrated water cooling unit for the torch

WIRE FEEDER MF 4 / MF 4W





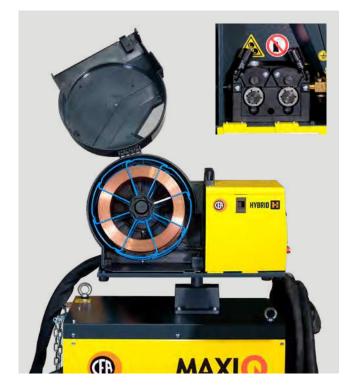
WIRE SPOOLS up to Ø 300 mm

INSPECTION WINDOWS in the spool cover

HK1 Hanging Kit

LONG INTERCONNECTING CABLE are available for MAXIQ equipment in the air cooled version over 50 m

STRONG INDUSTRIAL CASE made to last







HYBRID SYNERGIC®

This control represents something absolutely innovative in the welding world.

While keeping the welding equipment in manual adjustment, the HYBRID SYNERGIC^R - depending on the material and the diameter of the wire used - defines the best response in terms of starting and depositing of the wire throughout the welding cycle.

SMART LED ASSISTANT

In addition, a "smart LED" signal helps less skilled operators to set the most appropriate welding parameters.



FSC - Fast Start Control

It is the innovative arc striking control that reduces drastically the ignition time. By this new technology it is possible to have a quick and perfect ignition at every start.

This is ideal for spot-welding and pre-assembly of components.

SIMPLE AUTOMATION

MAXIQ are standard equipped with analogic-digital I/O. This allows to integrate very easily the power source into an automated welding equipment without any expensive and sophisticated external interfaces, usually necessarily supplied for robotics.

SPECIAL 4 STROKE

It is the special function that allows to save time at any weld. Every welder who welds in 4 stroke can quickly prepare the piece operating a perfect spot without changing any set on the interface. Simply by pressing for less than one second the torch trigger, it is possible to spot in 2 stroke even if the welder is set in 4 stroke. Keeping the same set-up, it is only needed to press the trigger for more than one second and the welder automatically works in 4 stroke.





TECHNICAL DATA		MA	XIQ	MAXIQ			
I ECHNICAL DAIA		400	400 W	500	500 W		
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400		
Input Power @ I2 Max	kVA	19	19,5	25,5	26		
Delayed Fuse (I eff)	A	25	25	32	32		
Power Factor / $\cos \phi$		0,80 / 0,99	0,80 / 0,99	0,87 / 0,99	0,87 / 0,99		
Efficiency Degree		0,86	0,86	0,86	0,86		
Open circuit voltage	V	62	62	62	62		
Current range	A	10 - 400	10 - 400	10 - 500	10 - 500		
	A 100 %	300	300	390	390		
Duty cycle at (40°C)	A 60 %	350	350	430	430		
	A 35 %	400	400	500	500		
Wire	Ø mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6		
Standards			EN 60974-1 • EN 6097	4-5 • EN 60974-10• S			
Protection Class	IP	23 S	23 S	23 S	23 S		
Dimensions (L x W x H)	mm	1040 x 495 x 950	1040 x 495 x 950	1040 x 495 x 950	1040 x 495 x 950		
Weight	Kg	66	78	68	80		

CODE	DESCRIPTION	MAXIQ 400 Air	MAXIQ 400 W Water	MAXIQ 500 Air	MAXIQ 500 W Water
	POWER SOURCES				
006130	Power Source MAXIQ 400 400 V	•			
006135	Power Source MAXIQ 400 W 400 V Water cooled	-	≋	-	
006140	Power Source MAXIQ 500 400 V	-		•	
006145	Power Source MAXIQ 500 W 400 V Water cooled				≋
010000	INTERCONNECTING CABLES			_	
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	•		•	
010864	4 m Air cooled Interconnecting cable Power source-Wire feeder	-			
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder	-			
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋		≋
010841	4 m Water cooled Interconnecting cable Power source-Wire feeder				
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder				
	WIRE FEEDERS				
030730	Wire Feeder MF 4 Hybrid Synergic ^R 4 rolls (Ø 1,0 / 1,2) Air cooled version	•		•	
030735	Wire Feeder MF 4 W Hybrid Synergic ^R 4 rolls (Ø 1,0 / 1,2) Water cooled version		≋		≋
031116	WK 4 standard wheels kit for MF feeder				
031007	WK 2 extra-large wheels kit for MF feeder				
031117	HK1 - Hanging Kit for MF4 / MF4W				
	ALUMINIUM KIT				
030895	Aluminium Kit of double grooved TWIN rolls (Ø 0,8/1,0) and gears kit for Al wires				
030897	Aluminium Kit of double grooved TWIN rolls (Ø 1,0/1,2) and gears kit for Al wires				
030899	Aluminium Kit of double grooved TWIN rolls (Ø 1,2/1,6) and gears kit for Al wires				
	MIG MAG WELDING TORCHES				
020466	CEA Torch CX 353/4 4 m - wire Ø 0.8÷1.2 - CO2 340A @60% / Mix 290A @60%	•			
020471	CEA Torch CX 451/4 4m - wire: Ø 0,8 ÷ 1.6 - CO2 400A @60% / Mix 300A @60%			•	
020472	CEA Torch CXH 302/4 4m - wire: Ø 0,8 ÷ 1.2 water cooled - CO2 300A @100% / Mix 250A @100%		ĺ		
020479	CEA Torch CXH 402/4 4m - wire: Ø 0,8 ÷ 1.6 water cooled - CO2 500A @100% / Mix 450A @100%		≈		
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8÷1,2 water cooled (to be ordered w. 031107)				
031113	Push Pull synchronizer PC Board KIT 24/42 V for MF4 and QF7 ProDrive (to be order with Push Pull torch)				
	For other torches see mig/mag accessories				
	GROUND CABLES				
239603	50 mm ² / 4 m Ground cable with clamp	•	≋		
239607	70 mm ² / 4 m			•	≋
	GAS REDUCERS				
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋
0200.0	OTHER OPTION[S]				
402275A	Cea CL-1100 cooling liquid - 5 l Tank		*		≈
236234	RC 178 remote control with 5 m cable		-~		
236590	Metallic spool adaptor				
200000	MAXIQ 400 Suggested air cooled version with torch				
	MAXIQ 400 W Suggested all cooled version with torch		≈		
	MAXIQ 500 Suggested water cooled version with torch		*		
					~
	MAXIQ 500 W Suggested water cooled version with torch	1			≋



Q-YARD

THE MULTIPROCESS YARD MASTER







Q-YARD represents the ideal welding equipment for the needs of yard industry. This power source has been developed and produced with the highest quality and reliability criteria to allow the best welding performances in yard application.

The new wire feeders **MF4 YARD** and **MINI MF4 YARD** allow to keep the adjustment simplicity of the conventional MIG equipment with two knobs to set Voltage and Wire Speed.

Q-YARD can work with air-cooling interconnecting cable up to 80m and up to 40m with water-cooled ones.

Q-YARD allows to weld with the **HYBRID SYNERGIC^R** mode granting the same welding performances as the most modern equipment also in manual MIG mode.



Multi-process, for yard welding application

Hybrid Synergic^R control

Excellent welding performance













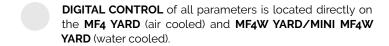


Q-YARD **FEATURES**

- Process: MIG, MMA, TIG Lift
- Special design optimized for yard industry: easy to stack on top of each other
- Two MIG/MAG welding modes: MANUAL and HYBRID SYNERGIC®
- · All parameters are digitally controlled directly from the wire feeder
- "Hybrid Synergic^R PRE SET" key for the best welding characteristic according to used type of material and wire
- Great robustness due to solid metallic main structure
- Excellent arc striking always precise and efficient
- · "Energy saving" function to operate the power source cooling fan and torch water cooling only when necessary
- Final crater control
- Burn-Back control

WIRE FEEDER

MF4 YARD / MINI MF4 YARD









WIRE SPOOLS up to Ø 300 mm (MF4 YARD) or Ø 200 mm (MINI MF4 YARD)

INSPECTION WINDOW in the spool cover (MF4)

HK1 Hanging Kit (MF4 optional)

MMA ADAPTOR socket for welding MMA directly from the feeder (optional)

LONG INTERCONNECTING CABLE are available for QYARD equipment in the air cooled version over 50 m

STRONG INDUSTRIAL CASE made to last









HYBRID SYNERGIC®

This control represents something absolutely innovative in the welding world.

While keeping the welding equipment in manual adjustment, the HYBRID SYNERGIC^R - depending on the material and the diameter of the wire used - defines the best response in terms of starting and depositing of the wire throughout the welding cycle.

SMART LED ASSISTANT

In addition, a "smart LED" signal helps less skilled operators to set the most appropriate welding parameters.



FSC - Fast Start Control

It is the innovative arc striking control that reduces drastically the ignition time. By this new technology it is possible to have a quick and perfect ignition at every start.

This is ideal for spot-welding and pre-assembly of components.

SIMPLE AUTOMATION

Q-YARD are standard equipped with analogic-digital I/O. This allows to integrate very easily the power source into an automated welding equipment without any expensive and sophisticated external interfaces, usually necessarily supplied for robotics.

SPECIAL 4 STROKE

It is the special function that allows to save time at any weld. Every welder who welds in 4 stroke can quickly prepare the piece operating a perfect spot without changing any set on the interface. Simply by pressing for less than one second the torch trigger, it is possible to spot in 2 stroke even if the welder is set in 4 stroke. Keeping the same set-up, it is only needed to press the trigger for more than one second and the welder automatically works in 4 stroke.



TECHNICAL DATA		Q-YARD
		450
Three phase input 50/60 Hz	V +/- 20%	400
Input Power @ I ² Max	kVA	22
Delayed Fuse (I eff)	Α	32
Power Factor / cos φ		0,84 / 0,99
Efficiency Degree		0,86
Open circuit voltage V		62
Current range	A	10 - 450
Duty evole at (40°C)	A 100 %	390
Duty cycle at (40°C)	A 60 %	450
Wire	Ø mm	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10 • S
Protection Class	IP	23 \$
Dimensions (L x W x H)	mm	631 (782 with handle) x 273 x 512 (543 with eyebolts)
Weight	Kg	56

CODE	DESCRIPTION	Q-YARD 450				
		AIR	WATER			
	POWER SOURCE POWER SOURCE					
006160	Power Source Q-YARD 450 400 V	•	≋			
	STANDARD MODELS include Programs for Fe - CrNi - Al and TIG / MMA functions					
	INTERCONNECTING CABLES					
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	•				
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder					
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder					
010871	20 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD					
010869	30 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD					
010872	40 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD					
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋			
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder					
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder					
010854	20 m / 70 mm ² Water cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD					
010876	30 m / 70 mm ² Water cooled for DIGITECH and Q-YARD to be use with code 032105 - HR 41-LC water cooler					
	WIRE FEEDERS					
030731	Wire Feeder MF 4 yard with A/V and Flowmeter - 4 rolls (0:1,0 / 1,2) Air cooled	•				
030736	Wire Feeder MF 4 W yard with A/V and Flowmeter - 4 rolls (0: 1,0 / 1,2) Water cooled		≋			
400034	Adaptor socket for MMA directly from the wire feeder					
031116	WK 4 standard wheels kit for MF 4, MF4 yard and QF 7 W PRO DRIVE feeder					
031007	WK 2 extra-large wheel kit					
031117	HK1 Hanging Kit for MF4 / MF4 yard					
	YARD WIRE FEEDERS					
030727	Wire Feeder Mini MF 4 yard with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Air cooled					
030728	Wire Feeder Mini MF 4 W yard with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Water cooled					
	ALUMINIUM KIT					
030895	Aluminium Kit of double grooved TWIN rolls (Ø: 0,8/1,0) and gears kit for Al wires					
030897	Aluminium Kit of double grooved TWIN rolls (0: 1,0/1,2) and gears kit for Al wires					
030899	Aluminium Kit of double grooved TWIN rolls (0: 1,2/1,6) and gears kit for Al wires					
	WATER COOLING					
032098	Water cooling equipment HR 32 400 V		≈			
032107	Water cooling equipment HR 42-LC 400 V reinforced pump - 4,5 bar - for connection length over 20 m					
031172	Adaptor support plate for Q-YARD with water coolers HR 32 / HR42-LC		≈			
402275A	Cea CL-1100 cooling liquid - 5 Tank		≈			
	TROLLEY		-			
031008	WK 3 extra-large wheels kit for Q-YARD (without cylinder holder)	•				
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	_	≈			
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)					
	MIG MAG WELDING TORCHES					
020471	CEA Torch CX 451/4 4 m wire Ø 0.8÷1.6 CO2 400A @60% / Mix 300A @60%					
020479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled CO2 500A @100% / Mix 450A @100%		<i></i>			
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8÷1,2 water cooled (to be ordered with 031107 or 031113)		~			
031113	Push Pull Synchronizer PC Board KIT 24 / 42 V for MF4 and QF7 PR0 DRIVE (to be ordered with the Push pull torch)					
031113	For other torches see mig/mag torches					
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE					
020560						
020568	Torch RTX 26.4 4 m - 180 A 35% GROUND CABLES					
239607	70 mm ² / 4 m Ground cable with clamp	•	≈			
233001	GAS REDUCERS	•	≈			
020916	Reducer with flowmeter and 1 manometer	•	~			
	OPTIONAL	-	≋			
020310						
236590	Metallic spool adaptor					
236590 236234	Metallic spool adaptor RC 178 remote control with 5 m cable					
236590	Metallic spool adaptor					



QUBOX / QUBOX PULSE

BACK TO WELD



















QUBOX PULSE

QUBOX and QUBOX PULSE series multiprocess equipment are characterized by a synergic digital control and inverter technology integrated into a sturdy and functional metallic structure, with a separate wire feeder. Technologically advanced, robust and easy-to-use, they allow high quality welding in MMA, TIG with "Lift" mode, MIG-MAG and with the QUBOX PULSE models, also in PULSED

The intuitive interface will all to less experienced operators to easily operate QUBOX and QUBOX PULSED equipment with a user-friendly welding parameters adjustment process.

Once the wished program has been $selected, the welding \, control \, automatically \,$ sets the best parameters based on the material type, wire diameter and gas being used.

QUBOX and QUBOX PULSE are the best choice in all industrial fields for all qualified applications requiring high precision and repeatability of the welding results, such as medium and large fabrication work, shipyards and steel erection.

QUBOX W and QUBOX W PULSE power sources are fitted with integrated water cooling unit.



Professional and strong

Full synergic control

Great welding performance



















QUBOX FEATURES

- · Parameter control directly from the wire feeder
- · Digital control of the welding parameters with synergic curves preset according to used type of material, gas and wire diameter
- "Smart PROGRAM" key for quickly selecting any program
- "Energy saving" function to operate the power source cooling fan and torch water cooling only when necessary
- · Excellent arc striking always precise and efficient
- · Ability to partially or totally lock the equipment with access key by password
- Great robustness due to solid metallic main structure
- Initial and final crater control
- Water cooling equipment integrated into the power source (W version)

WIRE FEEDER **QF7 W PRO DRIVE**







LODGING FOR WIRE SPOOLS up to \emptyset 300 mm

LED LIGHT in the feeder compartment

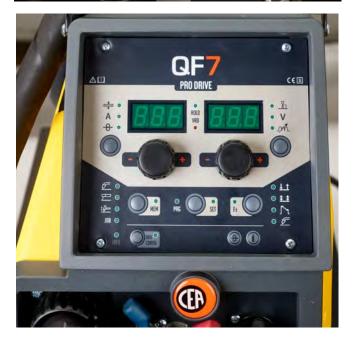
INSPECTION WINDOWS in the spool cover

HK1 Hanging Kit (optional)

LONG INTERCONNECTING CABLE are available for QUBOX equipment in the air cooled version over 50 m







WIRE FEEDER YARD 4

This compact and light wire feeder (11,5 Kg only), studied for \emptyset 200 mm wire spools, with flowmeter and complete control of the parameters on its panel, represents the ideal solution for shipyards and offshore welding applications.



FSC - Fast Start Control

It is the innovative arc striking control that reduces drastically the ignition time. By this new technology it is possible to have a quick and perfect ignition at every start.

This is ideal for spot-welding and pre-assembly of components.

SIMPLE AUTOMATION

Standard equipped with analogic-digital I/O, QUBOX power sources can be easily integrated into automated welding equipment without any expensive and sophisticated external interfaces usually necessarily supplied for robotics.

SPECIAL 4 STROKE

It is the special function that allows to save time at any weld. Every welder who welds in 4 stroke can quickly prepare the piece operating a perfect spot without changing any set on the interface. Simply by pressing for less than one second the torch trigger, it is possible to spot in 2 stroke even if the welder is set in 4 stroke. Keeping the same set-up, it is only needed to press the trigger for more than one second and the welder automatically works in 4 stroke.





SPECIAL PROCESSES

QUBOX and QUBOX PULSE models are available in: STANDARD configurations, designed for the most used welding applications, and PREMIUM, equipped with the innovative welding processes vision.COLD, vision.ULTRASPEED and vision.POWER. On this second version is standard the package of special ECP curves dedicated to those who want a system with higher level welding performance and who is not willing to give up the flexibility to weld different materials.

PREMIUM VISION



LTRASPEED

vision.COLD

To weld thin thickness laminations with low heat transfer

vision.ULTRASPEED

For high speed welding



vision.POWER
For a more concentrated arc and deeper penetration on medium and thick thickness



ECP Extra curve package

ON DEMAND



vision.PIPE
For a more accurate welding in pipe first root pass.

TECHNICAL DATA			QUBOX		QUBOX PULSE					
		400	400 W	500 W	335	335 W	405 W	505 W		
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400	400	400	400		
Input Power @ I2 Max	kVA	22	22,5	29,5	18	18,5	22,5	29,5		
Delayed Fuse (I eff)	A	32	32	40	20	20	32	40		
Power Factor / cos φ		0,70/0,99	0,70/0,99	0,75/0,99	0,65/0,99	0,65/0,99	0,70/0,99	0,75/0,99		
Efficiency Degree		0,88	0,88	0,89	0,88	0,88	0,88	0,89		
Open circuit voltage	V	62	62	62	62	62	62	62		
Current range	Α	10 - 400	10 - 400	10 - 500	10 - 330	10 - 330	10 - 400	10 - 500		
Duty evals at (40°C)	A 100 %	350	350	420	300	300	350	420		
Duty cycle at (40°C)	A 60 %	400	400	500	330	330	400	500		
Wire	Ø mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6		
Standards				EN 60974-1	- EN 60974-5 - EN 60)974-10 - S				
Protection Class	IP	23 S	23 S	23 S	23 S	23 S	23 S	23 S		
Dimensions (L x W x H)	mm	1030 X 950 X 515	1030 X 950 X 515	1030 X 950 X 515	1030 X 950 X 515					
Weight	Kg	70	80	86	70	80	80	86		

0005	DEGODIOTION		QUBOX			QUBOX	PULSE	
CODE	DESCRIPTION	400	400W	500W	335	335W	405W	505W
		AIR	WATER	WATER	AIR	WATER	WATER	WATER
004730	POWER SOURCES Power Source QUBOX 400 400 V	•						-
004730	Power Source QUBOX 400 W 400 V Water cooled		*					
004745	Power Source QUBOX 500 W 400 V Water cooled			≋				
004766	Power Source QUBOX 335 PULSE 400 V				•			
004771	Power Source QUBOX 335 W PULSE 400 V Water cooled					≋		
004770	Power Source QUBOX 405 W PULSE 400 V Water cooled						≋	~
004775	Power Source QUBOX 505 W PULSE 400 V Water cooled STANDARD MODELS include Programs for Fe - CrNi - Al and TIG / MMA functions							≋
	PREMIUM VERSION - POWER SOURCES							
004730PR	Power Source QUBOX 400 400 V PREMIUM							
004740PR	Power Source QUBOX 400 W 400 V PREMIUM							
004745PR	Power Source QUBOX 500 W 400 V PREMIUM							
004766PR	Power Source QUBOX 335 PULSE 400 V PREMIUM							-
004771PR 004770PR	Power Source QUBOX 335 W PULSE 400 V PREMIUM Power Source QUBOX 405 W PULSE 400 V PREMIUM							-
004775PR	Power Source QUBOX 505 W PULSE 400 V PREMIUM							
	PREMIUM MODELS include already install vision.COLD vision.ULTRASPEED vision.POWER and ECP							
	SOFTWARE FOR SPECIAL MIG/MAG PROCESS							
050010	vision.PIPE for first root pass of pipes in MIG/MAG (*)	-						
050050	ECP-Extra Curves Package to meet special application (*) (*) TO BE INSTALLED ONLY IN CEA BEFORE DELIVEDING THE EQUIDMENT.							-
NOTE:	(*) TO BE INSTALLED ONLY IN CEA BEFORE DELIVERING THE EQUIPMENT INTERCONNECTING CABLES							
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	•			•			
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder							
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder							
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋		≋	≋	≋
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder							
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder							
030726	WIRE FEEDERS Wire Feeder QF 7 W PRO DRIVE w.4 rolls (0: 1,0/1,2) Water cooled	•	≋	≋	•	≋	≋	≋
031116	WK 4 standard wheels kit for MF 4, MF4 yard and QF 7 W PRO DRIVE feeder		~	~		~	~	~
031007	WK 2 extra-large wheel kit							
031117	HK1 Hanging Kit for QF7 W PRO DRIVE							
	YARD WIRE FEEDERS							
030724	Wire Feeder YARD 4 with A/V and Flowmeter 4 rolls (0: 1,0 / 1,2) Air cooled version							
030729	Wire Feeder YARD 4 W with A/V and Flowmeter 4 rolls (0: 1,0 / 1,2) Water cooled version ALUMINIUM KIT							
030895	Aluminium Kit of double grooved TWIN rolls (Ø: 0,8/1,0) and gears kit for Al wires							
030897	Aluminium Kit of double grooved TWIN rolls (Ø: 1,0/1,2) and gears kit for Al wires							
030899	Aluminium Kit of double grooved TWIN rolls (Ø: 1,2/1,6) and gears kit for Al wires							
	MIG MAG WELDING TORCHES							
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 C02 340A @60% / Mix 290A @60%				•			$\overline{}$
020471 020472	CEA Torch CX 451/4 4 m wire Ø 0.8÷1.6 C02 400A @60% / Mix 300A @60% CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled C02 300A @100% / Mix 250A @100%	•				≈		_
020472	CEA Torch CXH 402/4 4 m wire 0 0.8÷1.6 water cooled C02 500A @100% / Mix 250A @100%		≈	≈		~	≈	≈
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8÷1,2 water cooled (to be ordered w. 031107)							
031107	Push Pull Synchronizer PC Board KIT for QF4, HT5 (to be ordered with the Push Pull torch)							
031113	Push Pull Synchronizer PC Board KIT 24/42 V for MF4 and QF7 ProDrive (to be order with Push Pull torch)							
	For other torches see mig/mag torches							-
020568	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE Torch RTX 26.4 4 m - 180 A 35%							
020300	GROUND CABLES							
239603	50 mm² / 4 m Ground cable with clamp	•	≋		•	≋	≋	
239607	70 mm ² / 4 m Ground cable with clamp			≋				≋
	GAS REDUCERS							
020916	Reducer with flowmeter and 1 manometer	•	≋	≋	•	≋	≋	≋
40227F A	OTHER OPTION[S] Cea CL-1100 cooling liquid - 5 Tank		~	~		~	~	~
402275A 353473	Dust Air Filter (package of 4 pcs)		≋	≋		≋	≋	. ≋
236590	Metallic spool adaptor							
236234	RC 178 remote control with 5 m cable							
460262	4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp - brush/hammer - shield with lens							
460264	4+3 m 70 mm ² cables with electrodeholder pincer, ground clamp - brush/hammer - shield with lens							
	QUBOX 400 Suggested air cooled version with torch	•						
	QUBOX 400 W Suggested water cooled version with torch QUBOX 500 W Suggested water cooled version with torch		≈	≋				
	QUBOX 335 PULSE Suggested air cooled version with torch			~	•			
	QUBOX 335 W PULSE Suggested water cooled version with torch					≋		
	QUBOX 405 W PULSE Suggested water cooled version with torch						≋	
	QUBOX 505 W PULSE Suggested water cooled version with torch		1					≋



DIGITECH

THE WELDING EDGE

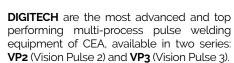












Developed with the arc control software vision.ARC2, **DIGITECH** obtain incredible quality results with any material in all welding application.

DIGITECH are characterized by a digital interface with colour display and a synergic control to automatically determine the best welding parameters, based on the used type of material, the wire diameter and the gas.

Technologically ahead and easy-to-use, they offer premium welding quality at high speed in PULSED MIG, DUAL PULSED, MIG-MAG, MMA and TIG with "lift" arc striking.

DIGITECH are open to be connected to a LAN, allowing to interface the equipment to a robot and support software, making these equipment the best solution in any industrial field requiring high precision and repeatability of the achieved results and complying with all the demands of the 4.0 Industry.

DIGITECH 3200 VP2 is the compact version designed with a built-in feeder while DIGITECH 3300 VP2 comes with a separate wire feeder.

 $\mbox{\bf DIGITECH 4003 VP3}$ and $\mbox{\bf 5003 VP3}$ use a separate wire feeder and are available with the new imposing design.



Top welding performance

LCD Panel Interface

Complete connectivity

Special MIG and Pulse process possibility





















DIGITECH **FEATURES**

- High tech multi-process equipment with exceptional performance in PULSED MIG, DUAL PULSED, MIG/MAG, MMA and TIG.
- Digital control of the welding parameters with preset synergic curves according to the type of material, gas and wire diameter being used
- Possibility of integrating special welding process: vision.MIG and vision.PULSED
- vision.ARC2 guarantees a constant arc in all conditions and the perfect droplet detachment, mostly in PULSED MIG and DUAL PULSED, to achieve superior welding performances
- User Interface with LCD colour display to keep under control the whole welding process
- Monitoring and repeatability of the welding parameters

- Excellent arc striking always precise and efficient
- Ability to partially or totally lock the equipment with access key by password
- Energy Saving" function to operate the power source cooling fan and torch water cooling when necessary
- Welding parameter adjustments directly from Up/Down MIG
- LAN connectivity to the network via Ethernet port or WIFI (Optional)
- Data storing and data printing ability (Optional)

WIRE FEEDER HT6 PRO DRIVE





LODGING FOR WIRE SPOOLS up to Ø 300 mm

LED LIGHT in the feeder compartment (HT6 Pro Drive)

INSPECTION WINDOWS in the spool cover (HT6 Pro Drive)

HK1 Hanging Kit (HT6 Pro Drive - Optional)

GRADUATED KNOB to achieve the most correct value of the wire pressure cables from the power source to the feeder.

STRONG INDUSTRIAL CASE made to last









DOUBLE FEEDER

DIGITECH in the version with double wire feeder represents the ideal solution whenever a greater flexibility is needed in all applications using two different types of material, wire or gas.



DIGITECH **SYNERGIC CONTROL**

DIGITECH control, fitted with the innovative colour display with icons and a clear infographic, allows even less expert welders to very easily adjust all the welding parameters in an intuitive way with extreme simplicity.

At the same time, DIGITECH power sources offer also most expert welders the possibility of fine tuning and customizing the welding process control, thanks to the ability to access clear, simple and complete under menus for the best possible configuration and optimization of the equipment.



PROCESS SELECTION



PROGRAM SELECTION



WELDING MODE



WELDING SET UP



WSC - Wire Start Control

This arc striking control device prevents any possible wire sticking to the workpiece or torch nozzle, by always ensuring a prompt and precise arc striking

SIMPLE AUTOMATION

Standard equipped with analogic-digital I/O, DIGITECH can be easily integrated into automated welding equipment without any expensive and sophisticated external interfaces usually necessarily supplied for robotics.

ETHERNET LAN

Possibility of having a special version fitted with an external Ethernet socket to interface the equipment to a remote device and support software.

DIGITECH 4.0 READY

These units have the possibility to be connected to an industrial LAN through an Ethernet port or by a WiFi LAN (Optional), to satisfy all the requirement of 4.0 industry.



ROBOT INTERFACE

DIGITECH power sources can be connected to any Robot or Cobot by means of a CEA Robot Interface which can handle several analogic, fieldbus digital protocols depending on the features of the Robot to be used.



ANALOGIC/DIGITAL INTERFACE



DIGITAL FIELD BUS INTERFACE



SPECIAL PROCESSES

vision.ARC2 is the software platform available on DIGITECH, which enables to weld with the following optional special processes:

MIG MAG



vision.COLD To weld thin thickness laminations with low heat transfer



vision.ULTRASPEED For high speed welding



vision.POWER

For a more concentrated

For a more concentrated arc and deeper penetration on medium and thick thickness



vision.PIPE For a more accurate welding in pipe first root pass.

MIG PULSED



vision.PULSE-POWER For a deeper and more flattened welding bead on medium large thickness



vision.PULSE-RUN For a faster and colder pulse welding



vision.PULSE-UP For a faster and more precise vertical up welding

ECP



EXTRA CURVE PACKAGE A complete set of welding curves for different materials

CQM CEA QUALITY MANAGER - CWM CEA WELDER MANAGER

CQM (CEA QUALITY MANAGER) is a software developed by CEA to enable welding data recording, monitoring, and printing by means of an external computer connected to one or more DIGITECH power sources.

CWM (CEA WELDER MANAGER) is a software developed by CEA designed to monitor the status of one or more DIGITECH power sources by connecting them via Ethernet (or Wi-Fi optional) to an external computer in the same network.





TECHNICAL DATA		DIGITECH VP2		DIGITE	CH VP3
TECHNICAL DATA		3200	3300	4003	5003
Three Phase input 50/60 Hz	V +10% -10%	400	400	400	400
Input Power @ I2 Max	kVA	19	19,6	25,5	31,2
Delayed Fuse (I eff)	A	20	25	32	40
Power Factor / cos Φ		0,66/0,99	0,65/0,99	0,65/0,99	0,69/0,99
Efficiency Degree		0,85	0,85	0,86	0,87
Open circuit voltage	V	62	62	70	70
Current range	Α	10 - 320	10 - 330	10 - 400	10 - 500
	A 100 %	240	280	350	380
Duty cycle at (40°C)	A 60 %	270	300	400	460
	A X %	320 (40%)	330 (40%)	-	500 (50%)
Wires	Ø mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6
Standards			EN 60974-1 • EN 6097	4-5 • EN 60974-10 S	
Protection Class	IP	23 S	23 S	23 S	23 S
Dimensions (L x W x H)	mm	660 x 290 x 515	660 x 290 x 515	710 x 290 x 530	710 x 290 x 530
Weight	Kg	41	35	41	45

DIGITECH 3200 VP2

CODE	DESCRIPTION				
		AIR	WATER		
	POWER SOURCES				
004700	Power Source DIGITECH 3200 VP2 400 V (4 rolls for wire Ø 0,8÷1,0 mm)	•	*		
	SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE				
004700PR	Power Source DIGITECH 3200 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket				
	ALUMINIUM KIT				
	Aluminium Kit of double grooved TWIN rolls (Ø 0.8 ÷1.0) and gears kit for Al wires				
030897	Aluminium Kit of double grooved TWIN rolls (Ø 1.0 ÷ 1.2) and gears kit for Al wires				
	SOFTWARE FOR SPECIAL MIG/MAG PROCESS				
	SM1 - SPECIAL MIG Process Package including: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP - Extra Curves Package				
050003	SP2 - PERFORMANCE Process Package including: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP - Extra Curves Package				
050004	SFP - vision.FULL-PACKAGE complete package with Special MIG Process Package (SMI) and Special PULSE Process: vision.PULSE-UP, vision. PULSE-RUN and vision.PULSE-POWER with extra curves ECP				
050050	ECP - Extra Curves Package to meet special application				
	EN 1090 WPQR - WPS				
	Collection of WPQR - WPS for DIGITECH				
	MIG MAG WELDING TORCHES				
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 CO2 340A @60% / Mix 290A @60%	•			
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled CO2 300A @100% / Mix 250A @100%		≋		
020488	Push Pull Torch PP 401 D 8 m 24 V -wire Ø 0,8÷1,2 water cooled (to be ordered w. 031107)				
031107	Push Pull Synchronizer PC Board KIT for QF4 and HT5 (to be ordered with the Push pull torch)				
	For other torches see mig/mag torches				
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE				
020568	Torch RTX 26.4 4 m - 180 A 35%				
	WATER COOLING				
032098	Water cooling equipment HR 32 400 V		≅		
402275A	Cea CL-1100 cooling liquid - 5 Tank		≋		
	TROLLEYS				
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	•	₩ ≋		
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)				
	GROUND CABLES				
239603	50 mm ² / 4 m Ground cable with clamp	•	≈		
	GAS REDUCERS				
020916	Reducer with flowmeter and 1 manometer	•	≈		
	OTHER OPTION[S]				
236590	Metallic spool adaptor				
236234	RC 178 remote control with 5 m cable				
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase				
	4+3 m 35 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens				
	DIGITECH 3200 VP2 COMPACT Suggested air cooled version with torch	•			
	DIGITECH 3200 VP2 COMPACT Suggested water cooled version with torch		≈		



DIGITECH 3200 VP2 COMPACT

DIGITECH 3300 VP2

CODE	DESCRIPTION					
	DOWED COURSE	AIR	WATE			
004705	POWER SOURCES Power Source DIGITECH 3300 VP2 400 V	•	≈			
004705	PREMIUM VERSIONS - POWER SOURCE FITTED WITH SOFTWARE		~			
004705PR	Power source DIGITECH 3300 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket		-			
004703111	DIGITECH VP2's PREMIUM READY FOR INDUSTRY 4.0 - PREPARED To be connected to QR WIFI READER and/or to WIFI LAN					
004707PR	Power source DIGITECH 3300 VP2 PREMIUM 4.0 READY 400V vision.FULL PACKAGE & Ethernet & USB socket		-			
004707111	SOFTWARE FOR SPECIAL MIG/MAG PROCESS					
050002	SM1 - SPECIAL MIG Process Package including: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP - Extra Curves Package					
050003	SP2 - PERFORMANCE Process Package including: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP - Extra Curves Package					
050004	SFP - vision.FULL-PACKAGE complete package with Special MIG Process Package (SMI) and Special PULSE Process: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP					
050050	ECP - Extra Curves Package to meet special application					
000000	EN 1090 WPQR - WPS					
	Collection of WPQR - WPS for DIGITECH					
	INTERCONNECTING CABLES					
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	•	≈			
010842	5 m Air / Water cooled Interconnecting cable Power source-Wire feeder					
010846	10 m Air / Water cooled Interconnecting cable Power source-Wire feeder					
	WIRE FEEDERS					
030716	Wire Feeder HT 6 with Euro Connection 4 rolls (Ø 1.0÷1.2)	•	≈			
031116	WK 4 standard wheels kit for HT 6 feeder					
031007	WK 2 extra-large wheels kit for HT 6 feeder					
031117	HK1 Hanging Kit for HT 6 PRO DRIVE feeder					
	ALUMINIUM KIT					
030895	Aluminium Kit of double grooved TWIN rolls (Ø 0.8÷1.0) and gears kit for Al wires					
030897	Aluminium Kit of double grooved TWIN rolls (Ø 1.0 ÷1.2) and gears kit for Al wires					
030899	Aluminium Kit of double grooved TWIN rolls (Ø 1.2 ÷ 1.6) and gears kit for Al wires					
	MIG MAG WELDING TORCHES					
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 CO2 340A @60% / Mix 290A @60%	•				
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled C02 300A @100% / Mix 250A @100%		≋			
020488	Push Pull Torch PP 401 D 8 m 24 V -wire Ø 0,8÷1,2 water cooled (to be ordered w. 031107)					
031107	Push Pull Synchronizer PC Board KIT for QF4 and HT5 (to be ordered with the Push Pull torch)					
031113	Push Pull Synchronizer PC Board KIT 24 / 42 V for MF4, QF7 PRO DRIVE and HT 6 PRO DRIVE (to be ordered with the Push pull torch)					
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE					
020568	Torch RTX 26.4 4 m - 180 A 35%					
	WATER COOLING		-			
032095	Water cooling equipment HR 31 400 V		≋			
402275A	Cea CL-1100 cooling liquid - 5 Tank		≋			
00.401.4	TROLLEYS		-			
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	•	≈			
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)		-			
239603	GROUND CABLES 50 mm ² / 4 m Ground cable with clamp	•	~			
233003	GAS REDUCERS	_	≋			
020916	Reducer with flowmeter and 1 manometer	•	=			
020310	OTHER OPTION[S]		. ≋			
236590	Metallic spool adaptor		-			
236234	RC 178 remote control with 5 m cable		-			
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase					
460262	4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp and 50mm ² safety connections brush/hammer - shield with lens					
	DIGITECH 3300 VP2 Suggested air cooled version with torch	•				
	DIGITECH 3300 VP2 Suggested water cooled version with torch		≋			

DIGITECH 4003/5003 VP3

CODE	DESCRIPTION	40	03		03
	POWER SOURCES	AIR	WATER	AIR	WATE
004708	Power Source DIGITECH 4003 VP3 400 V	•	≈		_
004700	Power Source DIGITECH 5003 VP3 400 V		~	•	≈
004713	SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE				~
004798PR	Power source DIGITECH 4003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket				
004713PR	Power source DIGITECH 5003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket				
00 11 101 11	DIGITECH VP3's PREMIUM READY FOR INDUSTRY 4.0 - PREPARED To be connected to OR WIFI READER and/or to WIFI LAN				
004709PR	Power source DIGITECH 4003 VP3 PREMIUM 4.0 READY 400V vision.FULL PACKAGE & Ethernet & USB socket				
004714PR	Power source DIGITECH 5003 VP3 PREMIUM 4.0 READY 400V vision.FULL PACKAGE & Ethernet & USB socket				
	SOFTWARE FOR SPECIAL MIG/MAG PROCESS				
050002	SM1 - SPECIAL MIG Process Package: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP				
050003	SP2 - PERFORMANCE Process Package: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP				
050004	SFP - vision.FULL-PACKAGE complete package with Special MIG Process Package (SM1) and Special PULSE Process: vision.				
030004	PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP				
050050	ECP-Extra Curves Package to meet special application				
	EN 1090 WPQR - WPS				
	Collection of WPQR - WPS for DIGITECH				
	INTERCONNECTING CABLES				
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	•	≋	•	≋
010842	5 m Air / Water cooled Interconnecting cable Power source-Wire feeder				
010846	10 m Air / Water cooled Interconnecting cable Power source-Wire feeder				
	WIRE FEEDERS				
030716	Wire Feeder HT 6 PRO DRIVE with Euro Connection 4 rolls (Ø 1.0 ÷ 1.2)	•	≋	•	≋
031116	WK 4 standard wheels kit for HT 6 PRO DRIVE feeder				
031007	WK 2 extra-large wheels kit for HT 6 PRO DRIVE feeder				
031117	HK1 Hanging Kit for HT 6 PRO DRIVE feeder				
	ALUMINIUM KIT				
030895	Aluminium Kit of double grooved TWIN rolls (Ø 0.8÷1.0) and gears kit for Al wires				
030897	Aluminium Kit of double grooved TWIN rolls (Ø 1.0 ÷ 1.2) and gears kit for Al wires				
030899	Aluminium Kit of double grooved TWIN rolls (Ø 1.2÷1.6) and gears kit for Al wires				
	MIG MAG WELDING TORCHES				<u> </u>
020471	CEA Torch CX 451/4 4 m wire Ø 0.8÷1.6 CO2 400A @60% / Mix 300A @60%	•		•	
020479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled CO2 500A @100% / Mix 450A @100%		≋	\angle	≋
020488	Push Pull Torch PP 401 D 8 m 24 V -wire Ø 0,8÷1,2 water cooled (to be ordered w. 031107)				-
031107	Push Pull Synchronizer PC Board KIT for QF4 and HT5 (to be ordered with the Push Pull torch)				-
031113	Push Pull Synchronizer PC Board KIT 24 / 42 V for MF4, QF7 PRO DRIVE and HT 6 PRO DRIVE (to be ordered with the Push pull torch)				-
000500	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE				-
020568	Torch RTX 26.4 4 m - 180 A 35%				-
000105	WATER COOLING				-
032125	Water cooling equipment HRX 51 400 V		≋	-	≋
402275A	Cea CL-1100 cooling liquid - 5 l Tank TROLLEYS		≋		≋
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	•	≈	•	~
234914	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)		~	•	. ≋
234320	GROUND CABLES				
239603	50 mm ² / 4 m Ground cable with clamp	•	≈		
239607	70 mm ² / 4 m Ground cable with clamp		~	•	. ≋
233001	GAS REDUCERS				~
020916	Reducer with flowmeter and 1 manometer	•	≈	•	⊨
020310	OTHER OPTION[S]		~		~
236590	Metallic spool adaptor				
236234	RC 178 remote control with 5 m cable				
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase				
460262	4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp and 50mm ² safety connections brush/hammer - shield with lens				
.00202	DIGITECH 4003 VP3 Suggested air cooled version with torch	•			
	DIGITECH 4003 VP3 Suggested water cooled version with torch		≋		
	DIGITECH 5003 VP3 Suggested air cooled version with torch			•	
	DIGITECH 5003 VP3 Suggested water cooled version with torch				₩ ≋

DIGITECH DOUBLE FEEDER

CODE	DESCRIPTION		BOO WATER		CH VP3 003 WATER		OH VP3
	POWER SOURCES	AIII	WAILII	AIII	WAILII	AIII	WAIL
004705	Power Source DIGITECH 3300 VP2 400 V	•	≋				
004708	Power Source DIGITECH 4003 VP3 400 V			•	₩ ≋		
004713	Power Source DIGITECH 5003 VP3 400 V					•	≈
	SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE						
004705PR	Power source DIGITECH 3300 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004708PR	Power source DIGITECH 4003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004713PR	Power source DIGITECH 5003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
	SOFTWARE FOR SPECIAL MIG/MAG PROCESS						
050002	SM1 - SPECIAL MIG Process Package: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP						
050003	SP2 - PERFORMANCE Process Package: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP						
050004	SFP - vision.FULL-PACKAGE complete package with Special MIG Process Package (SM1) and Special PULSE						
050004	Process: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP						
050050	ECP - Extra Curves Package to meet special application						
	EN 1090 WPQR - WPS						
	Collection of WPQR - WPS for DIGITECH						
	INTERCONNECTING CABLES						
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	•	≋	•	≋	•	≋
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	•	≋	•	≋	•	≋
010842	5 m Air / Water cooled Interconnecting cable Power source-Wire feeder				i		
010846	10 m Air / Water cooled Interconnecting cable Power source-Wire feeder				i		
	WIRE FEEDERS				i		
030716	Wire Feeder HT 6 with Euro Connection 4 rolls (Ø 1.0 ÷ 1.2)	•	≈	•	₩ ≋	•	≈
030716	Wire Feeder HT 6 with Euro Connection 4 rolls (Ø 1.0÷1.2)	•	≈	•	≈	•	≈
030873	Support and Connection Kit for DOUBLE HT 6 wire feeder system for DIGITECH VP2	•	≈				
031120	Support and Connection Kit for DOUBLE HT 6 wire feeder system for DIGITECH VP3		-	•	≈	•	≅
	ALUMINIUM KIT		-				
030895	Aluminium Kit of double grooved TWIN rolls (Ø 0.8÷1.0) and gears kit for Al wires						
030897	Aluminium Kit of double grooved TWIN rolls (Ø 1.0÷1.2) and gears kit for Al wires						
030899	Aluminium Kit of double grooved TWIN rolls (Ø 1.2÷1.6) and gears kit for Al wires						
	MIG MAG WELDING TORCHES						
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 CO2 340A @60% / Mix 290A @60%	•					
020471	CEA Torch CX 451/4 4 m wire Ø 0.8÷1.6 CO2 400A @60% / Mix 300A @60%			•		•	
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled CO2 300A @100% / Mix 250A @100%		≈				
020479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled CO2 500A @100% / Mix 450A @100%				_ ≋		≈
020488	Push Pull Torch PP 401 D 8 m 24 V -wire Ø 0,8 ÷ 1,2 water cooled (to be ordered w. 031107)						Î
031107	Push Pull Synchronizer PC Board KIT for QF4 and HT5 (to be ordered with the Push Pull torch)						
	WATER COOLING						
032095	Water cooling equipment HR 31 400 V		≅				
032125	Water cooling equipment HRX 51 400 V				[≋		≈
402275A	Cea CL-1100 cooling liquid - 5 Tank		* ≈		* ≈		≈
	TROLLEYS						
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	•	≈				
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)						
234923	Trolley CT 72 Large for power source and 2 gas cylinders and autotransformer						
234935	Trolley CT 82 Large for power source and 2 gas cylinders and autotransformer			•	[≋	•	- ≈
	GROUND CABLES						
239603	50 mm ² / 4 m Ground cable with clamp	•	≈	•	. ≈		
239607	70 mm ² / 4 m Ground cable with clamp					•	₩ ≋
	GAS REDUCERS						
020916	Reducer with flowmeter and 1 manometer	•	≈	•	≈	•	≈
	OTHER OPTION[S]		1	1	1		
236590	Metallic spool adaptor		1	1			
236234	RC 178 remote control with 5 m cable						
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase						
	DIGITECH 3300 VP2 with Double Feeder HT 6 - Suggested air cooled version with torch	•					
	DIGITECH 3300 VP2 with Double Feeder HT 6 - Suggested water cooled version with torch	-	₩ ≋				
	DIGITECH 4003 VP3 with Double Feeder HT 6 - Suggested water cooled version with torch		~	•			
	DIGITECH 4003 VP3 with Double Feeder HT 6 - Suggested water cooled version with torch				₩ ≋		
	Dianizon 1000 17 0 Will Double I Court III o Cuggottou Water College Verbien Will Colon				~		-
	DIGITECH 5003 VP3 with Double Feeder HT 6 - Suggested air cooled version with torch			1	1		



SMARTMIG / COMPACT

STEP ADJUSTMENT MIG COMPACT EQUIPMENT



Industrial semi-automatic welding equipment with built-in wire feeder, suitable to be used with CO2 gas and mixture for professional and industrial applications.

SMARTMIG and **COMPACT** power sources, in their robust and user-friendly design, ensure excellent welding characteristics on any material, aluminium and stainless steel included, by granting a very stable arc in any welding position.

Robust and easy-to-use, **SMARTMIG** and **COMPACT** power sources are suitable to be used in industry, fabrication work, car body repair, agriculture and maintenance.



Simple and easy to use

Compact and reliable

Good welding performance

SMARTMIG / COMPACT **FEATURES**

- Excellent MIG-MAG welding characteristics on any material and with any gas
- Arc striking always precise
- Burn-Back and motor ramp externally adjustable
- Spot timer on all models
- 2 4 stroke mode selector switch (COMPACT)
- Professional feeding system to ensure a precise and constant wire feeding
- Large inner lodging to easily accommodate also metallic coils (300 mm Ø max.)
- Double inductance connection for a better welding pool in any position (COMPACT)
- Standard supplied with cylinder carriage and robust wheels for an easy manoeuvrability











TECHNICAL DATA		SMARTMIG	; 1 1 1 1 1 1	CON	IPACT	
TECHNICAL DATA		T 25	270	310	364	410
Three phase input 50/60 Hz	V	230/400	230/400	230/400	230/400	230/400
Input Power @ I ² Max	kVA	9,7	12	13,3	17,3	18,5
Delayed Fuse (l ² @ 60%)	Α	16/10	16/10	25/16	25/20	35/20
Power Factor / cos Φ		0,75	0,96	0,96	0,96	0,96
Efficiency Degree		0,76	0,65	0,70	0,68	0,77
Open circuit voltage	V	17 - 38	17 - 38	18 - 43,5	18,5 - 45	20 - 44
Adjustment positions	N°	10	10	10	14	20
Current range	A	25 - 250	25 - 250	30 - 300	45 - 350	60 - 400
	A 100%	120	140	170	200	240
Duty avala at (40°C)	A 60%	160	180	225	260	300
Duty cycle at (40°C)	A 35%	210	250	300	350	400
	A X%	250 (25%)				
Wires	Ø mm	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2	0,6 - 1,6
Standards			EN 6097	74-1 • EN 60974-5 • EN 60974	I-10• S	
Protection Class	IP	23 S	23 S	23 S	23 S	23 S
Dimensions (L x W x H)	mm	830 x 400 x 615	860 x 540 x 790	860 x 540 x 790	860 x 540 x 790	1060 x 600 x 780
Weight	Kg	53	67	70	83	109







IR 14 water cooling equipment (COMPACT 410)

CODE	DECORIDEION	SMARTMIG	1		;		IPACT
CODE	DESCRIPTION	T 25	270	310	364		110
	POWER SOURCES WITH TORCH	AIR	AIR	AIR	AIR	AIR	WATER
	Power source SMARTMIG T 25 230/400 V - 3 Ph complete with: C 25/3 3 m Torch, 25 mm ² /3						
007545	m Ground cable and roll for 0,8÷1,0 mm Ø wires	•					
	POWER SOURCES WITHOUT TORCH						+
	Power source SMARTMIG T 25 230/400 V - 3 Ph complete with:		-				+
007546	25 mm ² / 3 m Ground cable and roll for 0.8÷1.0 mm Ø wires						
007200	Power source COMPACT 270 230/400V (2 rolls for wire Ø 0.8÷1.0 mm)		•				
007210	Power source COMPACT 310 230/400V (2 rolls for wire Ø 0.8÷1.0 mm)			•			
007223	Power source COMPACT 364 230/400V (4 rolls for wire Ø 1.0÷1.2 mm) TO BE DISCONTINUED				•		
007230	Power source COMPACT 410 230/400V (4 rolls for wire Ø 1.0 ÷ 1.2 mm)					•	₩ ≋
-	WELDING TORCHES						
020458	CEA Torch CX 251/3 3 m wire Ø 0.6÷1.0 CO2 260A @60% / Mix 200A @60%		•	•	•		
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 CO2 340A @60% / Mix 290A @60%					•	
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled CO2 300A @100% / Mix 250A @100%						*
	WATER COOLING						
032050	Water cooling equipment IR 14 400 V						₩ *
032055	Water cooling equipment IR 14 230 V						
402275A	Cea CL-1100 cooling liquid - 5 Tank						₩ *
030939	Accessories IR type: "L"						₩ *
	IR must have the same input voltage used for the power source.						
	GROUND CABLES						1
239618	25 mm ² / 4 m Ground cable with clamp		•				1
239601	35 mm ² / 4 m Ground cable with clamp			•	•		1
239603	50 mm ² / 4 m Ground cable with clamp					•	. ≈
	GAS REDUCERS						<u> </u>
020855	Reducer with 2 manometers	•	•	•	•	•	. ≈
	OPTIONAL						1
236590	Metallic spool adaptor						1
	SMARTMIG T 25 Suggested air cooled version with torch	•					
	COMPACT 270 Suggested air cooled version with torch		•	1			1
	COMPACT 310 Suggested air cooled version with torch		1	•			1
	COMPACT 364 Suggested air cooled version with torch		1	1	•		1
	COMPACT 410 Suggested air cooled version with torch		1	1		•	1
	COMPACT 410 Suggested water cooled version with torch		1	1			* ≈



MAXI

STEP ADJUSTMENT MIG WELDING EQUIPMENT WITH SEPARATE WIRE FEEDER



Semi-automatic welding equipment, with separate wire feeder, recommended for industrial applications in medium and large fabrication work.

MAXI power sources, are the most complete solution for any job and ensure excellent welding performances on any thickness by granting a very stable arc in any welding position.

MAXI supplied with cylinder carriage and robust wheels.



Easy to use

Strong and reliable

Good welding performance

MAXI **FEATURES**

- Excellent welding characteristics on any material and with any gas type
- Ideal for welding any metal in any industrial application
- Control panel protected against accidental impact
- Large ergonomic handle for an easy maneuverability
- Double inductance connection for a better welding pool in any position

WIRE FEEDER WF 5

- External Burn-Back and motor ramp adjustments for a precise arc striking
- 2/4 stroke selector switch
- Professional wire feeding mechanism for a precise and constant wire driving
- Double groove rolls replaceable without any tool



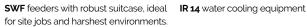






TECHNICAL DATA			MAXI :	
		405	505	
Three phase input 50/60 Hz	V	230/400	230/400	
Input Power @ I ² Max	kVA	19	24,2	
Delayed Fuse (I ² @ 60%)	Α	35/20	40/25	
Power Factor / cos φ		0,96	0,97	
Efficiency Degree		0,77	0,78	
Open circuit voltage	V	20 - 44	19 - 51	
Adjustment positions	N°	20	30	
Current range	Α	60 - 400	60 - 500	
	A 100%	230	300	
Duty cycle at (40°C)	A 60%	300	370	
	A 35%	400	500	
Wires	Ø mm	0,6 - 1,6	0,8 - 2,0	
Standards		EN 6	60974-1 • EN 60974-10 S	
Protection Class	IP	23 S	23 S	
Dimensions	mm	1060 x 600 x 780	1060 x 600 x 780	
Weight	Kg	99	113	









CONTROL PANEL Digital ammeter/voltmeter with hold function of the last welding parameters (optional)

		MAXI			AXI
CODE	DESCRIPTION	4	05	50	05
		AIR	WATER	AIR	WATER
	POWER SOURCES				
006105	Power source MAXI 405 230/400 V 3 phase	•	≋		
006115	Power source MAXI 505 230/400 V 3 phase			•	≈
	INTERCONNECTING CABLES				
010930	1.2 m Air cooled Interconnecting cable Power source-Wire feeder	•		•	
010935	5 m Air cooled Interconnecting cable Power source-Wire feeder				
010940	10 m Air cooled Interconnecting cable Power source-Wire feeder				
010945	1.2 m Water cooled Interconnecting cable Power source-Wire feeder		≋		*
010950	5 m Water cooled Interconnecting cable Power source-Wire feeder				
010955	10 m Water cooled Interconnecting cable Power source-Wire feeder				
	WIRE FEEDERS				
030635	Closed Wire Feeder WF 5 with Euro connect. 4 rolls (Ø 1.0 / 1.2)	•	≋	•	≋
030755	Closed Wire Feeder SWF STRONG FEEDER with Euro connect. 4 rolls (Ø 1.0 / 1.2)				
030927	Wheels Kit for WF 5 with additional fastening plate (code 030887) to fix interconnecting cable				
030887	Fastening plate to fix interconnecting cable to WF 5 (already included into 030924, 030927 wheels kit)				
	WELDING TORCHES				
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 CO2 340A @60% / Mix 290A @60%	•			
020471	CEA Torch CX 451/4 4 m wire Ø 0.8÷1.6 CO2 400A @60% / Mix 300A @60%			•	
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled CO2 300A @100%/Mix 250A @100%		≋		
020479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled CO2 500A @100%/Mix 450A @100%				*
	WATER COOLING				
032050	Water cooling equipment IR 14 400 V		≋		*
032055	Water cooling equipment IR 14 230 V				
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		*
030938	Accessories IR type: "J"		≋		*
	IR must have the same input voltage used for the power source.				
	GROUND CABLES				
239603	50 mm ² / 4 m Ground cable with clamp	•	≋	•	≈
	GAS REDUCERS				
020855	Reducer with 2 manometers	•	≋		≋
	OTHER OPTION[S]				
030956	Digital V/A meter Kit with "hold" function				
236590	Metallic spool adaptor				
020400	Adjustable Arm Torch and Support				[
	MAXI 405 - WF 5 Suggested air cooled version (without torch)	•			
	MAXI 405 - WF 5 Suggested water cooled version (without torch)		≋		
	MAXI 505 - WF 5 Suggested air cooled version (without torch)			•	
	MAXI 505 - WF 5 Suggested water cooled version (without torch)				≋





TIG

- 66 RAINBOW HF
- 68 MATRIX HF
- 72 MATRIX X HF
- 76 MATRIX AC/DC
- 80 MATRIX X AC/DC



RAINBOW HF

OUR ICON FOR PRECISION DC TIG WELDING





RAINBOW HF represent the latest evolution of inverter technology DC welding machines for professional applications.

Equipped with a digital control, these powerful 100 kHz power sources, based on IGBT technology and fitted with flat transformer, can be used for TIG welding of any metal, excluding aluminium and its alloys.

RAINBOW HF also very well performing in MMA welding, due to their lightness and portability, are the ideal solution for excellent quality welding in maintenance, assembly and light fabrication works.



High precision welding Ultra-compact, light and powerful Ideal for professional welder

RAINBOW HF FEATURES

- Digital control of all the welding parameters
- TIG arc striking by high frequency or "lift arc"
- High performance on thin metal sheets
- Energy Saving function to operate the power source cooling fan only when necessary
- Sloping front control panel, easy to read and adjust and highly visible from any direction
- Thanks to the "Tunnel" fan cooling system, IP 23 protection class and dust-proof electronic components allow their use in the toughest work environments
- Use of Up/Down TIG torches will enable to adjust directly from the torch the welding parameters













RAINBOW HF PRO





TECHNICAL DATA		RAINBO	W 201 HF	RAINBOW	182 HF PRO	RAINBOW 202 HF PRO			
TECHNICAL DATA		TIG DC	MMA	TIG DC	MMA	TIG DC	MMA		
Single phase input 50/60 Hz	V +20% -20%	230	230	230	230	230	230		
Input Power @ I ² Max	kVA	8,5	9,0	6,9	8,3	8,5	9		
Delayed Fuse (I eff)	Α	20	20	16	16	20	20		
Power Factor / cos φ		0,67/0,99	0,67/0,99	0,67/0,99	0,67/0,99	0,67/0,99	0,67/0,99		
Efficiency Degree		0,82	0,82	0,82	0,82	0,82	0,82		
Open circuit voltage	٧	88	88	90	90	88	88		
Current range	Α	5 - 200	5 - 160	5 - 180	5 - 160	5 - 200	5 - 160		
	A 100 %	120	110	110	80	120	110		
Duty cycle at (40°C)	A 60 %	140	130	130	100	140	130		
	A X %	200 (25%)	160 (30%)	180 (25%)	160 (20%)	200 (25%)	160 (30%)		
Standards				EN 60974-1 • EN 6097	4-3 • EN 60974-10 S				
Protection Class		23 S	23 S	23 S	23 S	23 S	23 S		
Weight	mm	390 x 13	35 x 300	390 x 13	35 x 300	390 x 1	35 x 300		
Weight Kg		7	5	7	7,5	7,5			

PULSE MODE

(RAINBOW 182 HF pro - 202 HF pro)



SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current



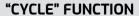
FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz



SLOW PULSE

Adjust separately current/time of peak and base



(RAINBOW 182 HF pro - 202 HF pro)

"CYCLE" function allows, by simply pressing the torch trigger, to continuously switch between two current values, previously preselected.





RAINROW FUNCT	RAINBOW FUNCTION		F PRO	201	HF	202 HF PRO			
HAINDOW FONCT	TIG	MMA	TIG DC	MMA	TIG	MMA			
Pre Gas		•		•		•			
Initial current		•				•			
Up Slope	'	•		•		•			
Welding current		•	•	•	•	•	•		
2nd welding current	"CYCLE"	•				•			
Pulse cycle	"PULSE"	•				•			
Down Slope	'	•		•		•			
Final current		•				•			
Post gas		•		•		•			
Spot time	,	•		•		•			
Automatic Hot Start			•		•		•		
Automatic Arc Force	'		•		•		•		
Automatic Anti-sticking	,	1	•		•		•		

CODE	DESCRIPTION	RAINBOW 201 HF	RAINBOW 182 HF PRO	RAINBOW 202 HF PRO
	POWER SOURCES			
004125	Power Source RAINBOW 201 HF 230 V	•		
004115	Power Source RAINBOW 182 HF PRO 230 V	İ	•	
004126	Power Source RAINBOW 202 HF PRO 230 V			•
	WELDING TORCHES			
020553	CEA Torch TXA 17.4 4 m 140 A 60% (DC)	•	•	•
020662	CEA Torch TXA 26.4 "UP/DOWN " 4 m 250 A 60% (DC)			
	For torches with 8 m long cable see tig accessories			
	GROUND CABLES			
239618	25 mm ² / 3 m Ground cable with clamp	•	•	•
	GAS REDUCERS			
020916	Reducer with flowmeter and 1 manometer	•	•	•
	OTHER OPTION[S]			
030963	Rainbow Bag			
030940	Carrying Belt Kit			
236243	CD 6/8 8 m manual remote control			
020919	PSR7 5 m foot remote control			
460056	Adapter for simultaneous connection of Torch and PSR 7			
460005	A6 Connection kit for non-standard Torch			
	RAINBOW 201 HF Suggested air cooled version with torch	•		
	RAINBOW 182 HF pro Suggested air cooled version with torch		•	
	RAINBOW 202 HF pro Suggested air cooled version with torch			•



MATRIX HF

THE PERFECT SOLUTION FOR DC TIG





MATRIX HF are highly technologically advanced TIG power sources with a complete and user friendly interface for the total control of all welding parameters.

MATRIX HF grant excellent TIG welding performances with mild and stainless steel, copper and its alloys and are suitable to be used for the toughest industrial applications and maintenance.

MATRIX HF offer excellent performances in MMA welding with the most difficult basic and cellulosic electrodes.

MATRIX 2200 HF optimizes the energy consumption with PFC device and is the ideal choice whenever power and portability are needed.



- High precision welding
- Excellent performance
- Complete TIG feature



















MATRIX HF **FEATURES**

- TIG DC min current from 1A
- · Standard equipped with pulse mode integrated into the control with available "EASY PULSE" feature
- Excellent TIG welding characteristics
- HF IGNITION Intelligent HF ignition grants a more accurate and prompter arc striking in all conditions.
- "Energy Saving" function to operate the power source cooling fan and the torch water cooling only when necessary.
- Use of special TIG torches will enable the remote control of the welding parameters directly from the torch
- Control panel protected against accidental impact
- · Reduced weight and size, easy-to-carry
- Electrode type selection (MMA MATRIX 3001 HF only)
- Possibility of memorizing welding parameters 99 JOBS (excluded MATRIX 3001 HF)
- LIFT ARC CURRENT with possibility to set the value of the starting current in LIFT

TIG RCT - Running coldTACK

RCT is the acronyms of **Running coldTACK**; indeed, the TIG RCT process allows to benefit of all the coldTACK advantages, by repeating the single coldTACK point in a continuous way, in order to achieve a cold and perfect welding seam.

Using **TIG RCT** the welding seam is much colder in comparison to the one achievable with Pulse TIG and it represents the ideal solution to weld thin materials with a very low heat transfer. TIG RCT is a direct current process not available in AC welding.



coldTACK

Innovative spot welding device to achieve precise and safe joining with a minimal thermal input.

Multi-coldTACK function grants cold spotting in a rapid sequence, thus further widening the benefits of the single spot.

Thanks to **Perfect-Point** function, coldTACK allows to obtain the most precise spot positioning.



MATRIX HF FUNCTION			RIX HF 1001	MATRIX HF 2200 • 2600 • 3000 • 4200					
		TIG	MMA	TIG	MMA				
High Frequency striking		•		•					
"Lift" mode striking		•		•					
Pre Gas		•		•					
Initial Current				•					
Up Slope		•		•					
Welding current		•		•					
2nd welding current	"CYCLE"			•					
Base current	"PULSE"			•					
Base current time	"PULSE"			•					
Peak current	"PULSE"			•					
Peak current time	"PULSE"			•					
Pulse frequency	"PULSE"			•					
Down Slope		•		•					
Final current				•					
Post gas		•		•					
Spot time		•		•					
Hot Start			•		•				
Arc Force			•		•				
Electrode type selection			•						
Anti-sticking			•		•				





MMA FUNCTIONS

Adjustable Arc Force for choosing the best welding arc dynamics Adjustable Hot Start to improve the arc striking with difficult electrodes Electrode Anti-sticking function.

CYCLE FUNCTION

"CYCLE" function allows to continuously switch between two current values, by previously preselected simply pressing the torch trigger. This function is most suitable for welding different thickness profiles, requiring a continuous current adjustment change.

PULSE MODE



SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current



ULTRA FAST

Adjust frequency up to 2000 Hz



FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz



SLOW PULSE

Adjust separately current/time of peak and base







MATRIX 3000 HF



TECHNICAL DATA		MATRIX 2200 HF MATRIX 2600 HF		2600 HF	MATRIX 300	00 / 3001 HF	MATRIX 4200 HF			
TECHNICAL DAIA		TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	
Single phase input 50/60 Hz	V +/- 20%	230		-		-		1	-	
Three phase input 50/60 Hz	V +/- 20%		-	4(00	400		4	00	
Input Power @ I ² Max	kVA	5,2	6,0	6,7	9,6	8,5	8,5	16,8	19,2	
Delayed Fuse (I eff)	Α	16	16	10	10	10	10	16	16	
Power Factor / $\cos \phi$		0,99/0,99	0,99/0,99	0,95/0,99	0,95/0,99	0,96/0,99	0,95/0,99	0,95/0,99	0,95/0,99	
Efficiency Degree		0,84		0,86		0,	87	0,86		
Open circuit voltage	V	8	5	8	5	8	35	8	35	
Current range	Α	1 - 220	10 - 180	1 - 260	10 - 250	1 - 300	10 - 270	3 - 420	10 - 400	
	A 100 %	160	120	200	190	210	200	270	270	
Duty cycle at (40°C)	A 60 %	190	150	230	220	250	230	340	340	
	A X %	220 (30%)	180 (30%)	260 (40%)	250 (40%)	300 (35%)	270 (35%)	420 (40%)	400 (40%)	
Standards				EN (60974-1 • EN 6097	4-3 • EN 60974-10	S			
Protection Class	S IP 23 S		3 S	23	3 S	23	3 S	23	3 S	
Dimensions (L x W x H)	mm	465 x 18	35 x 390	495 x 18	35 x 390	495 x 18	35 x 390	560 x 2	20 x 425	
Weight	Kg	1	4	17,5		17	7,5	25		



 $\pmb{\mathsf{VT}}\, \pmb{\mathsf{101}}\, \mathsf{trolley}\, \mathsf{for}\, \mathsf{lodging}\, \mathsf{gas}\, \mathsf{cylinder}$ and water cooling equipment



water cooling equipment (for MATRIX 4200HF)



VT 200 trolley for lodging gas cylinder and CT 401 trolley for lodging gas cylinder and water cooling equipment

CODE	DESCRIPTION		MATRIX 2200 HF				TRIX 0 HF		TRIX 11 HF	1	TRIX 0 HF
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
	POWER SOURCES										
004505	Power source MATRIX 2200 HF 400 V	•	≋								
004527	Power source MATRIX 2600 HF 400 V			•	≈						
004530	Power source MATRIX 3000 HF 400 V					•	≋				
004532	Power source MATRIX 3001 HF 400 V								≋		
004555	Power source MATRIX 4200 HF 400 V									•	≅
	WELDING TORCHES										
020562	CEA Torch TXA 26.4 4 m 250 A 60% (DC)	•	\angle	•		•			\angle	•	
020662	CEA Torch TXA 26.4 "UP/DOWN " 4 m 250 A 60% (DC)									L	
020672	CEA Torch TXH 18.4 4 m 320 A 100% (DC) water cooled		≋	\angle	≋		€	<u>/</u> ,	. ≋	\leq	_ ≋
020677	CEA Torch TXH 18.4 "UP/DOWN" 4 m 320 A 100% (DC) water cooled									\angle	
	For torches with 8 m long cable see tig accessories										
	2 WHEELS TROLLEYS									L	<u>.</u>
234929	Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder	•	⊥≋	•	_ ≋ _	•	⊨≋	•	_ ≋		
234921	Trolley VT 200 for power source, HR 23 cooling equipment and cylinder									•	€
	WATER COOLING									<u></u>	
032065	Water cooling equipment HR 22 230 V		ຼ່≋			_				\angle	
032060	Water cooling equipment HR 23 400 V to be ordered with "VT" trolley line only				⊨≋		≋		≋		€
413463	Input cable Adapter to connect HR 23 with MATRIX 4200 HF					_		<u>/</u> ,		\angle	≋
402275A	Cea CL-1100 cooling liquid - 5 l Tanks		€		≋		≋	_	≋	\angle	€
	GROUND CABLES										
239601	35 mm² / 4 m Ground cable with clamp	•	≋	•	≋	•	≋	•	≋		
239603	50 mm² / 4 m Ground cable with clamp									•	≋
	GAS REDUCERS								-	-	-
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋	•	≋	•	≋	•	≋
	OTHER OPTION[S]									-	<u> </u>
236243	CD 6/8 8 m manual remote control			<u> </u>						-	-
020919	PSR 7 5 m foot remote control								-	-	-
460056	Adapter for simultaneous connection of Torch and PSR 7		-							-	-
460005	A6 Connection kit for non-standard Torch		-	-	-						-
	Autotransformer 220V/400V-50/60Hz- 3 Phase		-	-	-		-			-	-
	Special Trolley for Gas Cylinder & Autotransformer										
	MATRIX 2200 HF Suggested air cooled version with torch and VT 101	•								-	-
	MATRIX 2200 HF Suggested water cooled version with torch and VT 101		≋								
	MATRIX 2600 HF Suggested air cooled version with torch and VT 101			•							-
	MATRIX 2600 HF Suggested water cooled version with torch and VT 101			-	€						
	MATRIX 3000 HF Suggested air cooled version with torch and VT 101					•					
	MATRIX 3000 HF Suggested water cooled version with torch and VT 101						€				
	MATRIX 3001 HF Suggested air cooled version with torch and VT 101							•			
	MATRIX 3001 HF Suggested water cooled version with torch and VT 101								≋		
	MATRIX 4200 HF Suggested air cooled version with torch and VT 200			-						•	
	MATRIX 4200 HF Suggested water cooled version with torch and VT 200		1								≋

VERSION WITH 4 WHEEL TROLLEY CT 401 - TROLLEY AND WATER COOLING TO BE ORDERED IN ADDITION TO THE POWER SOURCE

CODE	DESCRIPTION	MATRIX 2200 HF AIR WATER		MATRIX 2600 HF R AIR WATER		3000 H		į.		01 HF 4200	
	4 WHEELS TROLLEY	Ain	WAILN	Ain	WAILI	Ain	WAILN	Ain	WAILI	Ain	WAILI
234931	Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder	•	₩ *	•	₩ ≋	•	₩ ≈	•	₩ ≋	•	₩ ≋
	WATER COOLING FOR CT 401										
032065	Water cooling equipment HR 22 400 V		≋								
032060	Water cooling equipment HR 23 400 V				[≈		[≈	$\overline{}$	[≈		
032098	Water cooling equipment HR 32 400 V							$\overline{}$		$\overline{}$	[≋
402275A	Cea CL-1100 cooling liquid - 5 l Tanks		` ≋		` ≋		[≋]	$\overline{}$	[≋	$\overline{}$	≋
031166	Adaptor support plate for Matrix 4200 HF if used with CT 401 and HR 32										≋



MATRIX X HF

THE ULTIMATE SOLUTION FOR DC TIG





MATRIX X HF are high efficiency TIG HF inverter power sources, studied to satisfy the most advanced and sophisticate request in the TIG welding market.

MATRIX X HF are standard equipped with the new X VISION interface, simple and complete, for the total control and monitoring of all the welding parameters. Their excellent characteristics, coupled with the high technology of the digital control, allow a perfect stability of the welding arc, granting high performance TIG welding in the more sophisticated industrial applications and maintenance.

MATRIX X HF enable TIG welding of mild and stainless steel, copper and its alloys and they also offer excellent performance in MMA welding with the most difficult basic and cellulosic electrodes.

Thanks to PFC the single phase **MATRIX X 220 HF** optimizes the amount of energy consumption by allowing the use of this powerful power source with 16 A fuse mains and power generator sets.



X Vision interface

Excellent welding performance

Fast arc control





















MATRIX X HF FEATURES

- TIG DC minimum current from 1A
- Excellent welding characteristics in TIG with all material and MMA with any type of electrodes, cellulosic included
- Smart HF IGNITION to grant more accurate and prompter Arc Striking in all conditions
- LIFT ARC CURRENT with possibility to set the value of the starting current in LIFT.
- · Use of Up/Down TIG torches will enable to adjust directly from the torch both welding parameters and memorized JOBS
- · Reduced weight and size, easy-to-carry
- · Control rack protection cover
- Compact water cooling equipment integrable with the power source (optional)
- Simple automation: TSA1 TIG KIT (Optional)

TIG RCT - Running coldTACK

RCT is the acronyms of **Running coldTACK**; indeed, the TIG RCT process allows to benefit of all the coldTACK advantages, by repeating the single coldTACK point in a continuous way, in order to achieve a cold and perfect welding seam.

Using **TIG RCT** the welding seam is much colder in comparison to the one achievable with Pulse TIG and it represents the ideal solution to weld thin materials with a very low heat transfer. TIG RCT is a direct current process not available in AC welding.



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Innovative spot welding device to achieve precise and safe joining with a minimal thermal input.

Multi-coldTACK function grants cold spotting in a rapid sequence, thus further widening the benefits of the single spot.

Thanks to **Perfect-Point** function, coldTACK allows to obtain the most precise spot positioning.



X VISION CONTROL DISPLAY

X Vision control display with "ONE CLICK KNOB" encoder for the pre-setting and monitoring of all the welding parameters:

- User friendly interface
- Digital Ammeter and Voltmeter with welding current presetting and Hold Function of the last read value
- Welding mode "cycle"
- · Personalised welding program storing and recalling
- Possibility of copying job/s easily from one machine to another via USB
- · Advance setting infographic



WELDING MODE



WELDING SETTING MODE



ADVANCE JOB MANAGEMENT



PULSE MODE



SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current



FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz



ULTRA FAST

Adjust frequency up to 2000 Hz



SLOW PULSE

Adjust separately current/time of peak and base





MMA FUNCTIONS

Adjustable Arc Force for choosing the best welding arc dynamics Adjustable Hot Start to improve the arc striking with difficult electrodes Electrode Anti-sticking function.

CYCLE FUNCTION

"CYCLE" function allows, by simply pressing the torch trigger, to continuously switch between two current values, previously preselected. This function is most suitable for welding different thickness profiles, requiring a continuous current adjustment change.

TECHNICAL DATA		MATRIX	X 220 HF	MATRIX	X 300 HF
TECHNICAL DATA		TIG	MMA	TIG	MMA
Single phase input 50/60 Hz	V +/- 20%	23	30		-
Three phase input 50/60 Hz	V +/- 20%		-	4	00
Input Power @ I ² Max	kVA	5,2	6,0	8,5	8,5
Delayed Fuse (I eff)	Α	16	16	10	10
Power Factor / cos φ		0,99/0,99	0,99/0,99	0,96/0,99	0,95/0,99
Efficiency Degree		0,	84	0	87
Open circuit voltage	V	8	35	8	35
Current range	Α	1 - 220	10 - 180	1 - 300	10 - 270
	A 100 %	160	120	210	200
Duty cycle at (40°C)	A 60 %	190	150	250	230
	A X %	220 (30%)	180 (30%)	300 (35%)	270 (35%)
Standards			EN 60974-1 • EN 6097	74-3 • EN 60974-10 S	
Protection Class	IP	23	3 S	2	3 \$
Dimensions (L x W x H)	mm	530 x 2	15 x 410	530 x 2	15 x 410
Weight	Kg	1	8	2	20

0005	DECODITION		MATRIX X 220 HF 300 I AIR WATER AIR ■ ≋			
CODE	DESCRIPTION	i i				
		AIR	WATER	AIR	WATER	
	POWER SOURCE					
004507	Power source MATRIX X 220 HF 230V 1 Phase X Vision control	•	≋			
004560	Power source MATRIX X 300 HF 400V 3 Phase X Vision control			•	≋	
	TIG TORCH				_	
020562	CEA Torch TXA 26.4 4 m - 250 A 60% (DC)	•		•		
020662	CEA Torch TXA 26.4 "UP/DOWN" 4 m - 250 A 60% (DC)					
020667	CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled		≋		≋	
020680	CEA Torch Mini TXH 20.4 "UP/DOWN" 4 m - 250 A 100% (DC) - water cooled				<u> </u>	
020672	CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled				<u> </u>	
020677	CEA Torch TXH 18.4 "UP/DOWN" 4 m - 320 A 100% (DC) - water cooled					
	For torches with 8 m long cable see tig accessories					
	TROLLEY					
234929	Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder	•	≋	•	≋	
234931	Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder					
	WATER COOLING					
032120	Water cooling equipment HRX 20 230 V		≋			
032115	Water cooling equipment HRX 30 400 V				≋	
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		≋	
	GROUND CABLES					
239601	35 mm ² / 4 m Ground cable with clamp	•	≋	•	≋	
	GAS REDUCERS					
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋	
	OPTIONAL					
031118	TSA1 TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V)					
353485	DFX1 Dust Filter for MATRIX X					
236243	CD 6/8 8 m remote control with geared down potentiometer					
020919	PSR 7 5 m foot remote control					
460056	Adapter for simultaneous connection of Torch and PSR 7					
460005	A6 Connection kit for non-standard Torch					
	MATRIX X 220 HF Suggested air cooled version with torch	•				
	MATRIX X 220 HF Suggested water cooled version with torch		≋			
	MATRIX X 300 HF Suggested air cooled version with torch			•		
	MATRIX X 300 HF Suggested water cooled version with torch				≋	



VT 101 trolley for lodging gas cylinder and water cooling equipment



 $\mathbf{CT}\,\mathbf{401}$ trolley for lodging gas cylinder and water cooling equipment



PSR 7 5 m foot remote control



CD6/8 8m remote control with geared down potentiometer



MATRIX AC/DC

THE PERFECT SOLUTION FOR AC/DC TIG





MATRIX AC/DC are highly technologically advanced TIG power sources with a complete and user friendly interface for the total control of all welding parameters.

MATRIX AC/DC grants excellent TIG welding performance with all metals, including aluminum and its alloys, in the toughest industry and in maintenance application.

MATRIX AC/DC also offer excellent performance in MMA welding with the most difficult basic and cellulosic electrodes.



High precision welding Excellent performance Complete TIG feature





















MATRIX AC/DC FEATURES

- TIG DC min current from 1A / TIG AC min Current from 3 A
- Standard equipped with pulse mode integrated into the control with available "EASY PULSE" features
- Excellent TIG welding characteristics
- HF IGNITION Intelligent HF ignition grants a more accurate and prompter arc striking in all conditions
- "Energy Saving" function to operate the power source cooling fan and the torch water cooling only when necessary
- · Control panel protected against accidental impact
- · Reduced weight and size, easy-to-carry
- TIG AC: electrode polarity arc ignition
- LIFT ARC CURRENT with possibility to set the value of the starting current in LIFT
- MMA welding mode can now be set in MMA AC ICONA

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Thanks to **Perfect-Point** function, coldTACK allows to obtain the most precise spot positioning.



CONTROL DISPLAY

- Digital Ammeter and Voltmeter with welding current presetting and Hold Function of the last read value
- Welding process selector: TIG AC TIG DC TIG DC "Lift" MMA DC MMA AC ICON
- Pulse TIG welding adjustable from 0,5 up to 2000 Hz with available "EASY PULSE" features
- AC square wave balance and Balance Plus
- AC square wave frequency adjustment
- Tungsten electrode diameter presetting for a better control of the arc striking and arc dynamics
- Wave Selector: Square Mixed Sinusoidal Triangular



MMA FUNCTIONS

Adjustable Arc Force for choosing the best welding arc dynamics Adjustable Hot Start to improve the arc striking with difficult electrodes Electrode Anti-sticking function.

CYCLE FUNCTION

"CYCLE" function allows to continuously switch between two current values, by previously preselected simply pressing the torch trigger. This function is most suitable for welding different thickness profiles, requiring a continuous current adjustment change.

PULSE DC MODE



SYN PULSE

SYN PULSE will synergially generate pulse frequency and base current



FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz



ULTRA FAST

HIGH PULSE FREQUENCY IN DC

Adjust frequency up to 2000 Hz

PULSE DC AND AC/DC MODE

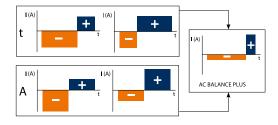


SLOW PULSE

Adjust separately current/time of peak and base

BALANCE PLUS

Possibility of independently adjust both current time (t) and its amplitude (A) while staying in either positive or negative polarity, by offering a perfect control of penetration and arc cleaning with a drastic reduction in lateral undercuts.



WAVE SHAPES SPECIAL TIG AC FUNCTIONS



DYNAMIC

Square wave: high arc dynamics for all applications



SPEED

Mixed wave: optimal penetration at high welding speed and low consumption of the electrode



SOFT

Sinusoidal wave: smoother and softer arc with a reduced noise, ideal for medium thickness



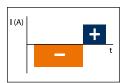
COLD

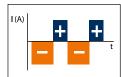
Triangular wave: low heat transfer with reduced deformation, ideal for small thickness

FREQUENCY CONTROL IN AC

Frequency adjustment of the various AC wave shapes for better directional control, reduction of the thermally altered area, deeper penetration and electrode lower wearing out.

High level frequency enables to weld very thin material with excellent results. Low frequency is ideal for medium thickness or whenever edge preparation is not accurate.





		MATRIX							
TECHNICAL DATA		2200 AC/DC		3000	AC/DC	4100 AC/DC		5100	AC/DC
		TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Single phase input 50/60 Hz	V	230 -	+/- 20%		-	1 1	-		-
Three phase input 50/60 Hz	V		-	400 -	-/- 20%	400 +1	5% /- 20%	400 +1	5% /- 20%
Input Power @ I2 Max	kVA	5,6	6,2	9,0	9,6	19,0	24,7	26,0	31,0
Delayed Fuse (I eff)	Α	16	16	10	10	32	32	40	50
Power Factor / cos φ		0,99/0,99	0,99/0,99	0,93/0,99	0,94/0,99	0,65/0,99	0,67/0,99	0,73/0,99	0,73/0,99
Efficiency Degree		0,	80	0,8	83	0,	86	0	,87
Open circuit voltage	V	8	15	8	5	8	35	8	35
Current range	A	1 - 220	10 - 180	1 - 300	10 - 250	1 - 400	10 - 400	1 - 500	10 - 500
	A 100 %	140	120	210	190	350	350	400	400
Duty cycle at (40°C)	A 60 %	180	150	250	220	400	400	500	500
	A X %	220 (30%)	180 (30%)	300 (35%)	250 (40%)	-	-	-	-
Standards		1	EN 60974-1 - EN 60		60974-1 • EN 60974	I-3 • EN 60974-10	S		
Protection Class	IP	23 S	23 S	23 S	23 S	23 S	23 S	23 S	23 S
Dimensions (L x W x H)	mm	465 x 18	35 x 390	495 x 18	85 x 390	660 x 2	90 x 515	660 x 2	90 x 515
Weight	Kg	15	5,5	1:	9	Ę	i3		54

ORDER INFORMATION

004511 004535 004091	POWER SOURCE Power source MATRIX 2200 AC/DC 230V	TION	2200 AIR	AC/DC	3000	ልሮ/በሮ	4100	AC/DC	E100	AC/DC
004511 004535 004091	Power source MATRIX 2200 AC/DC 230V		AIR			NO/ DO	4100	HC/DC	טטוכ	AC/DC
004511 004535 004091	Power source MATRIX 2200 AC/DC 230V		7	WATER	AIR	WATER	AIR	WATER	AIR	WATER
004535 004091										1
004091		1 Phase	•	≋						
	Power source MATRIX 3000 AC/DC 400V	3 Phase			•	≋				
	Power source MATRIX 4100 AC/DC 400V	3 Phase					•	≋		<u> </u>
	Power source MATRIX 5100 AC/DC 400V	3 Phase		1					•	€
	WELDING TORCHES			Ļ						<u> </u>
	CEA Torch TXA 26.4 4 m	250 A 60% (DC)	•		•		•		•	
	CEA Torch TXH 18.4 4 m	320 A 100% (DC) - water cooled		_ ≋		. ≋		≈		_ ≋
	CEA Torch TXH 18.4 "UP/DOWN" 4 m	320 A 100% (DC) - water cooled								
	CEA Torch Mini TXH 20.4 4 m	220 A 100% (DC) - water cooled								
	For torches with 8 m long cable see tig accessor	ries								
	TROLLEYS						<u> </u>	<u> </u>		
	Trolley VT 101 for power source, cooling equipment of the cooling equip		•	≋	•	≈				
	Trolley CT 401 for power source, cooling equip									
234914	Trolley CT 70 with 4 rolls for power source, coo	ling equipment and cylinder					•	€	•	€
	Trolley CT 75 with 4 rolls for power source, coo	ling equipment and cylinder								
	WATER COOLING			j						
	Water cooling equipment HR 22 230 V			≋						
032060	Water cooling equipment HR 23 400 V					≋				
032098	Water cooling equipment HR 32 400 V							≋		≋
402275A	Cea CL-1100 cooling liquid - 5 l Tank			≋		≋		≋		€
	GROUND CABLES									
239601	35 mm ² / 4 m Ground cable with clamp		•	≋	•	≋				
239607	70 mm ² / 4 m Ground cable with clamp						•	≋	•	≋
	GAS REDUCERS									
020916	Reducer with flowmeter and 1 manometer		•	≋	•	≋	•	≈	•	≈
	OPTIONAL									
236243	CD 6/8 8 m remote control with geared down	potentiometer								
020919	PSR 7 5 m foot remote control									
460056	Adapter for simultaneous connection of Torch	and PSR 7								
460005	A6 Connection kit for non-standard Torch									
	MATRIX 2200 AC DC Suggested air cooled ve	ersion with torch	•							
	MATRIX 2200 AC DC Suggested water cooled	l version with torch		≋						
	MATRIX 3000 AC DC Suggested air cooled ve				•					
	MATRIX 3000 AC DC Suggested water cooled					≋				
	MATRIX 4100 AC DC Suggested air cooled ve						•			
	MATRIX 4100 AC DC Suggested water cooled							≈		
	MATRIX 5100 AC DC Suggested air cooled vo								•	
	MATRIX 5100 AC DC Suggested water cooled									≋









PSR 7 5 m foot remote control



CD6/8 8m remote control with geared down potentiometer

CT 70



MATRIX X AC/DC

THE ULTIMATE SOLUTION FOR AC/DC TIG





MATRIX X AC/DC are high efficiency TIG AC/DC inverter power sources, studied to satisfy the most advanced and sophisticate request in the TIG welding market.

MATRIX X AC/DC are standard equipped with the new X VISION interface, simple and complete, for the total control and monitoring of all the welding parameters.

Their excellent characteristics, coupled with the high technology of the digital control, allow a perfect stability of the welding arc, granting high performance TIG welding in the more sophisticated industrial applications and maintenance.

MATRIX X AC/DC enable TIG welding of all metals including Aluminium and its alloys, and they also offer excellent performance in MMA welding with the most difficult basic and cellulosic electrodes.

Thanks to PFC the single phase MATRIX X 220 AC/DC optimizes the amount of energy consumption by allowing the use of this powerful power source, without problems, with 16 A fuse mains and power generator sets.



X Vision interface

Excellent welding performance

Fast arc control





















MATRIX X AC/DC FEATURES

- TIG DC minimum current from 1A and TIG AC starting from 3A
- · Excellent welding characteristics in TIG with all material and MMA with any type of electrodes, cellulosic included
- Smart HF IGNITION to grant more accurate and prompter Arc Striking in all conditions
- · LIFT ARC CURRENT with possibility to set the value of the starting current in LIFT
- Use of Up/Down TIG torches will enable to adjust directly from the torch both welding parameters and memorized JOBS
- · Reduced weight and size, easy-to-carry
- Control rack protection cover
- Compact water cooling equipment integrable with the power source (optional)
- Simple automation: TSA1 TIG KIT (Optional)

TIG RCT - Running coldTACK

RCT is the acronyms of **Running coldTACK**; indeed, the TIG RCT process allows to benefit of all the coldTACK advantages, by repeating the single coldTACK point in a continuous way, in order to achieve a cold and perfect welding seam.

Using **TIG RCT** the welding seam is much colder in comparison to the one achievable with Pulse TIG and it represents the ideal solution to weld thin materials with a very low heat transfer. TIG RCT is a direct current process not available in AC welding.



coldTACK

Innovative spot welding device to achieve precise and safe joining with a minimal thermal input.

Multi-coldTACK function grants cold spotting in a rapid sequence, thus further widening the benefits of the single spot.

Thanks to **Perfect-Point** function, coldTACK allows to obtain the most precise spot positioning.



X VISION CONTROL DISPLAY

X Vision control display with "ONE CLICK KNOB" encoder for the pre-setting and monitoring of all the welding parameters:

User friendly interface

Digital Ammeter and Voltmeter with welding current pre-setting and Hold Function of the last read value

Welding mode "cycle"

Personalized welding program storing and recalling

Possibility of copying job/s easily from one machine to another via USB

Advance setting infographic



WELDING MODE



WELDING SETTING MODE



ADVANCE JOB MANAGEMENT



PULSE DC MODE



SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current



FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz



ULTRA FAST

HIGH PULSE FREQUENCY IN DC

Adjust frequency up to 2000 Hz

PULSE DC AND AC/DC MODE -



SLOW PULSE

Adjust separately current/time of peak and base

BALANCE PLUS

Possibility of independently adjust both current time (t) and its amplitude (A) while staying in either positive or negative polarity, by offering a perfect control of penetration and arc cleaning with a drastic reduction in lateral undercuts.





WAVE SHAPES SPECIAL TIG AC FUNCTIONS



DYNAMIC

Square wave: high arc dynamics for all applications



SPEED

Mixed wave: optimal penetration at high welding speed and low consumption of the electrode



SOFT

Sinusoidal wave: smoother and softer arc with a reduced noise, ideal for medium thickness



COLD

Triangular wave: low heat transfer with reduced deformation, ideal for small thickness

		MATRIX X								
TECHNICAL DATA		220 A	AC/DC	300 /	300 AC/DC		400 AC/DC		AC/DC	
		TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA	
Single phase input 50/60 Hz	V +/- 20%	2:	30		-	1	-	: : :	-	
Three phase input 50/60 Hz	V +/- 20%		_	4	00	4	00	4	00	
Input Power @ I2 Max	kVA	5,6	6,2	9,0	9,6	19,0	24,7	26,0	31,0	
Delayed Fuse (I eff)	A	16	16	10	10	32	32	40	50	
Power Factor / cos φ		0,99/0,99	0,99/0,99	0,93/0,99	0,94/0,99	0,65/0,99	0,67/0,99	0,73/0,99	0,73/0,99	
Efficiency Degree		0,	80	0,	83	0,	86	0,	,87	
Open circuit voltage	V	8	5	8	15	8	5	8	35	
Current range	A	1 - 220	10 - 180	1 - 300	10 - 250	1 - 400	10 - 400	1 - 500	10 - 500	
	A 100 %	140	120	210	190	350	350	400	400	
Duty cycle at (40°C)	A 60 %	180	150	250	220	400	400	500	500	
	A X %	220 (30%)	180 (30%)	300 (35%)	250 (40%)	-	-	-	-	
Standards				EN (60974-1 • EN 60974	4-3 • EN 60974-10	S			
Protection Class	IP	23	3 \$	23	3 \$	23	3 S	2:	3 S	
Dimensions (L x W x H)	mm	530 x 2	15 x 410	530 x 2	15 x 410	710 x 29	00 x 530	710 x 290 x 530		
Weight	Kg	2	10	2	1,5	5	3	Ę	54	

CODE	DESCRIPTION		10/00			RIX X			10/00
CODE	DESCRIPTION	220 AIR	AC/DC WATER	300 / AIR	AC/DC WATER	400 /	AC/DC WATER	500 <i>i</i> Air	AC/DC WATER
	POWER SOURCE	AIII	WAILII	AIII	WAILII	AIII	WAILII	AIII	WAILI
004512	Power source MATRIX X 220 AC/DC 230V 1 Phase X Vision control	•	≈						
004565	Power source MATRIX X 300 AC/DC 400V 3 Phase X Vision control			•	≈				
004093	Power source MATRIX X 400 AC/DC 400V 3 Phase X Vision control					•	≈		
004097	Power source MATRIX X 500 AC/DC 400V 3 Phase X Vision control							•	≈
	TIG TORCHES								
020562	CEA Torch TXA 26.4 4 m - 250 A 60% (DC)	•		•		•		•	
020662	CEA Torch TXA 26.4 "UP/DOWN" 4 m - 250 A 60% (DC)								
020667	CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled		≅						
020680	CEA Torch Mini TXH 20.4 "UP/DOWN" 4 m - 250 A 100% (DC) - water cooled								
020672	CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled				. ≋		≋		≅
020677	CEA Torch TXH 18.4 "UP/DOWN" 4 m - 320 A 100% (DC) - water cooled		1		1				
	For torches with 8 m long cable see tig accessories		i		İ	ĺ			1
	TROLLEYS		1		1			1	
234929	Trolley VT 101 for power source, cooling equipment and cylinder	•	≋	•	≈				
234931	Trolley CT 401 for power source, cooling equipment and cylinder								
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder					•	≅	•	≋
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder								
234932	Trolley CT 80 with 4 rolls for power source, cooling equipment and cylinder								
	WATER COOLING								
032120	Water cooling equipment HRX 20 230 V		≅						
032115	Water cooling equipment HRX 30 400 V				_ ≋				
032130	Water cooling equipment HRX 52 400 V						≋		€
402275A	Cea CL-1100 cooling liquid - 5 I Tank		≋		≋		≋		≋
	GROUND CABLES								
239601	35 mm² / 4 m Ground cable with clamp	•	≋	•	*				
239607	70 mm² / 4 m Ground cable with clamp					•	≋	•	≋
	GAS REDUCERS				į		İ		
020916	Reducer with flowmeter and 1 manometer								
	OPTIONAL				İ				
031118	TSA1 - TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V)				j				
031119	TSA5 - TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V)								j
353485	DFX1 - Dust Filter for MATRIX X 220 / X 300								
353486	DFX5 - Dust Filter for MATRIX X 400 / X 500								
236243	CD 6/8 8 m remote control with geared down potentiometer								
020919	PSR 7 5 m foot remote control								
460056	Adapter for simultaneous connection of Torch and PSR 7				1				
460005	A6 Connection kit for non-standard Torch				1				
	MATRIX X 220 AC/DC Suggested air cooled version with torch	•							
	MATRIX X 220 AC/DC Suggested water cooled version with torch		≋						
	MATRIX X 300 AC/DC Suggested air cooled version with torch	1		•					
	MATRIX X 300 AC/DC Suggested water cooled version with torch				≋				
	MATRIX X 400 AC/DC Suggested air cooled version with torch					•			
	MATRIX X 400 AC/DC Suggested water cooled version with torch						≈		
	MATRIX X 500 AC/DC Suggested air cooled version with torch							•	
	MATRIX X 500 AC/DC Suggested water cooled version with torch								€



VT 101 trolley for lodging gas cylinder and water cooling equipment

CT 401 trolley for lodging gas cylinder and water cooling equipment



CT 70 trolley for lodging gas cylinder and water cooling equipment





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ROCK

INVERTER POWER SOURCES FOR ELECTRODE WELDING





ROCK 160, 200 and **210 PRO** are the latest generation of inverter power sources, built in a strong and robust chassis.

They are perfect for any professional use with any type of basic and rutile electrodes for maintenance and light fabrication works.

The high welding characteristics in MMA and TIG welding with "Lift" mode arc striking, coupled with IP 23 protection class, enable their use in any work environment.

ROCK are equipped with ergonomic handle, carrying belt for easy transportation and standard supplied with electrode-holder and ground clamp cables.



- MMA and TIG Lift welding
- Strong and robust construction
- Portable everywhere

ROCK FEATURES

- · Excellent welding characteristics with any type of basic and rutile electrode
- Possibility to work with adequate size power generator sets
- ROCK 210 PRO: CELL and VRD
- Shock-proof fiber compound main structure
- Easy-to-carry thanks to their reduced weight and dimension
- Input Voltage fluctuation compensation for high arc stability
- · Automatic Hot Start to improve the arc striking with the most difficult electrodes
- Built-in Arc Force to automatically select the best welding arc dynamics
- · Electrode Anti-sticking function























ROCK PACKAGE ROCK FIBER CASE KIT

ROCK 200 ROCK 210 PRO

TECHNICAL DATA			ROCK	
TECHNICAL DATA		160	200	210 PRO
Single phase input 50/60 Hz	V +10% -10%	230	230	230
Input Power @ I2 Max	kVA	8,2	10,4	10,6
Delayed Fuse (I eff)	Α	16	20	25
Power Factor / cos φ		0,63/0,99	0,67/0,99	0,66/0,99
Efficiency Degree		0,82	0,81	0,81
Open circuit voltage	V	72	72	90 - 12 (VRD)
Current range	A	10 - 160	10 - 200	10 - 200
	A 100 %	95	105	110
Duty cycle at (40°C)	A 60 %	105	110	145
	A X %	160 (20%)	200 (10%)	200 (30%)
Standards			EN 60974-1 • EN 60974-10 • S	
Protection Class	IP	23 S	23 S	23 S
Dimensions (L x W x H)	mm	315 x 135 x 260	315 x 135 x 260	355 x 135 x 260
Weight	Kg	4,3	4,6	6,1



CODE	DESCRIPTION	ROCK 160	ROCK 200	ROCK 210 PRO
	POWER SOURCES			
003835	ROCK 160 230 V with 3+3 m 16mm ² cables, electrode-holder pincer, ground clamp and belt	•		
003840	ROCK 200 230 V with 3+3 m 16mm ² cables, electrode-holder pincer, ground clamp and belt		•	
003845	ROCK 210 PRO 230 V - CELL and VRD with 4+3 m 25mm ² cables, electrode-holder pincer, ground clamp and belt			•
	POWER SOURCES IN FIBER CARRY-CASE WITH ACCESSORIES			
033835	ROCK 160 230V FIBER CASE KIT complete with 3+3 m 16mm ² cables with electrode-holder pincer, ground clamp and belt	•		
033840	ROCK 200 230V FIBER CASE KIT complete with 3+3 m 16mm ² cables with electrode-holder pincer, ground clamp and belt		•	
	OPTIONAL			
030963	Rainbow Bag	•	•	•
201752	Kit of 2 male 50mm ² safety connections	•	•	•
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE			
020558	Torch RTX 17.4 4 m - 140 A 35%	•	•	•
	ACCESSORY KIT			
460281	3+2 m 16 mm² cables with electrodeholder pincer, ground clamp and 50 mm² safety connections - brush/hammer - shield with lens	•	•	
460286	4+3 m 25 mm² cables with electrodeholder pincer, ground clamp and 50 mm² safety connections - brush/hammer - shield with lens			•



PROJECT 2100

PORTABLE AND POWERFULL





PROJECT 2100, are DC inverter power sources, built-in and ergonomic and robust chassis standard equipped with a carrying belt for easy transportation.

Their power 210 A @ 30 % and lightness make them ideal for any professional use with any type of basic and rutile electrodes for maintenance and light fabrication works.



- MMA and TIG Lift welding
- Strong and robust construction
- Powerfull 210 A @ 30% 145 A @ 60%

PROJECT 2100 FEATURES

- Excellent welding characteristics with any type of electrode
- 2 available welding processes: MMA TIG
- Possibility to work with adequate size power generator sets
- Carrying belt for easy transportation
- Automatic Hot Start to improve the arc striking with the most difficult electrodes
- Built-in Arc Force to automatically select the best welding arc dynamics
- · Electrode Anti-sticking function











CONTROL PANEL

MMA: welding of coated electrodes: rutile, basic and stainless steel.

TIG: by the innovative "Lift" mode system, quick and precise striking is achieved, by minimizing any tungsten inclusion and avoiding any incision onto the workpiece.

TECHNICAL DATA		PROJECT 2100
Single phase input 50/60 Hz	V +10% / -10%	230
Input Power @ I ² Max	kVA	11,1
Delayed Fuse (I eff)	A	25
Power Factor / cos φ		0,63/0,99
Efficiency Degree		0,84
Open circuit voltage	V	65
Current range	A	5 - 210
	A 100 %	120
Duty cycle at (40°C)	A 60 %	145
	A 30 %	210
Standards		EN 60974-1 • EN 60974-10 • S
Protection Class	IP	23 S
Dimensions (L x W x H)	mm	365 x 135 x 230
Weight	Kg	7,6

CODE		DESCRIPTION	PROJECT 2100
	POWER SOURCES		
003825	PROJECT 2100	230 V	•
	ACCESSORIES		
460286	4+3 m 25 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with	
400200		lens	
030963	Rainbow Bag		•
020558	Torch RTX 17.4 4 m -	140 A 35% with built-in gas valve for touch-start technique	•



RAINBOW 180

OUR ICON FOR ELECTRODE WELDING





RAINBOW 180 represent the latest evolution in inverter technology DC welding equipment. These powerful 100 KHz power sources are based on latest generation IGBT's and fitted with a flat transformer.

RAINBOW 180 are 100kHz inverter power sources for electrode welding with IGBT and flat transformer technology.

RAINBOW 180 are the most suitable solution for maintenance and light fabrication works because of their lightness, reduced size and their excellent characteristics in electrode MMA and TIG welding with "Lift" mode arc striking.

RAINBOW 180 FEATURES

- Superior exceptionally high welding characteristics with any type of electrode (Cellulosic excluded)
- 3 available welding mode
- Possibility to work with adequate size power generator sets.
- Suitable to be used with 100 m length cable without power loss
- Built-in Arc Force to automatically select the best welding arc dynamics
- Automatic Hot Start to improve the arc striking with the most difficult electrodes
- Electrode Anti-sticking function.













- Superior welding performance
- Very light and portable everywhere
- 3 Available welding mode



CONTROL PANEL

MMA: welding of coated electrodes: rutile, basic, cast iron and aluminium.

MMA CrNi: welding of stainless steel with a smooth and very stable arc

TIG: by the innovative "Lift" mode arc striking with thermic control (TCS), quick and precise striking is achieved, by minimizing any tungsten inclusion and avoiding any incision onto the workpiece

TECHNICAL DATA		RAINBOW 180
Single phase input 50/60 Hz	V +10% / -10%	230
Input Power @ I ² Max	kVA	9,0
Delayed Fuse (I eff)	A	20
Power Factor / cos φ		0,65/0,99
Efficiency Degree		0,83
Open circuit voltage	V	88
Current range	A	5 - 180
	A 100 %	110
Duty cycle at (40°C)	A 60 %	130
	A X %	180 (20%)
Standards		EN 60974-1 - EN 60974-10 - S
Protection Class	IP	23 S
Dimensions (L x W x H)	mm	390 X 135 X 300
Weight	Kg	6

CODE		DESCRIPTION	RAINBOW 180
	POWER SOURCES		
004105	RAINBOW 180	230 V	•
	ACCESSORIES		
460286		cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections brush/hammer - shield with lens	•
030940	Carrying Belt Kit		•
030963	Rainbow Bag		•
020558	Torch RTX 17.4 4 m - 14	40 A 35% with built-in gas valve for touch-start technique	•



MATRIX E

PROFESSIONAL ALLROUNDER FOR MMA WELDING





Powerful, compact and light **MATRIX E** are high performing and technologically advanced MMA power sources.

MATRIX E power sources, are recommended for highest standard applications with any electrode.

Suitable to be used in shipyards, steel construction, pipewelding and maintenance, **MATRIX E** ensure an extraordinary stability of the welding parameters and their "fast dynamic characteristic" enables to achieve quality results even with the most difficult cellulosic and basic electrodes, and also in TIG with "Lift" mode arc striking.

MATRIX 2700 E SV is standard supplied with 230/400 V three phase input voltage.

Thanks to PFC the single phase **MATRIX 2200 E** optimizes the amount of energy consumption by allowing the use of this powerful power source with 16 A fuse mains and power generator sets.



Top performance with any electrode, cellulosic included

Portable, strong and powerful

MATRIX E **FEATURES**

- Excellent welding characteristics in MMA with any kind of electrodes, including cellulosic, and in TIG with "Lift" mode
- High reliability when used with generator sets
- Suitable to be used with mains cable lengths over 100 m
- ENERGY SAVING function to operate the power source cooling fan only when necessary
- Possibility of activating the VRD function
- STAND BY function on the remote control

- Auto-diagnostic feature for trouble shooting
- Control rack protection cover
- IP 23 protection class and dust-proof electronic components, thanks to the innovative "Tunnel" fan cooling system, allow operation in the toughest work environments
- Electrode Anti-sticking function

















TECHNICAL DATA				MAT	RIX	
TECHNICAL DATA		2200 E	2700	E SV	3000 E	4200 E
Single Phase Input V 50/60 Hz	+15% -15%	230	-	-	-	-
Three Phase Input V 50/60 Hz	+15% -15%	-	230	400	400	400
Input Power @ I2 max	kVA	5.7	8,0	10,5	12,4	19,0
Delayed Fuse (@ I2 100%)	Α	16	16	10	16	20
Power Factor / cos Φ		0.97/0.99	0,90/0,99		0,88/0,99	0,97/0,99
Efficiency Degree V		0.85	0,	80	0,86	0,86
Open Circuit Voltage	V	100	10	00	100	100
Current Range	Α	5 - 180	5 - 220	5 - 270	5 - 300	5 - 420
	A 100%	120	150	180	220	270
Duty cycle at (40°C)	A 60%	150	180	220	250	340
	A X%	180 (30%)	220 (30%)	270 (30%)	300 (30%)	420 (40%)
Dimensions (L x W x H)	mm	430 x 185 x 390	465 x 18	35 x 390	465 x 185 x 390	500 x 220 x 425
Weight	kg	12	16	i,5	15	20

CONTROL DISPLAY

- 1. Welding current electronic adjustment
- 2. Digital adjustable ARC FORCE and HOT START
- 3. Digital Ammeter and Voltmeter with welding current presetting and Hold Function of the last read value
- 4. Welding process selector switch
- MMA: welding of coated electrodes: rutile, basic, cast iron and aluminium
- MMA Cell: for welding of cellulosic electrodes
- MMA CrNi: for welding of stainless steel
- TIG: by the innovative "Lift" mode arc striking with thermic control (TCS), quick
 and precise striking is achieved, by minimizing any tungsten inclusion and
 avoiding any incision onto the workpiece. The SWS (Smart Welding Stop)
 synergic system reduces the electrode wearing and avoids any oxidation on
 the welded joint.



CODE		DESCRIPTION	MATRIX 2200 E	MATRIX 2700 E SV	MATRIX 3000 E	MATRIX 4200 E
	POWER SOURCES					
004500	MATRIX 2200 E	230 V - 1 Ph with digital Ammeter / Voltmeter and Digital Control	•			
004525	MATRIX 2700 E SV	230 / 400 V - 3 Ph with digital V/A meter		•		
004515	MATRIX 3000 E	400 V - 3 Ph with digital V/A meter				
004547	MATRIX 4200 E	400 V - 3 Ph with digital Ammeter / Voltmeter and Digital Control				•
	ACCESSORY KITS					
460286	4+3 m 25 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens	•			
460292	4+3 m 35 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens		•	•	
460262	4+3 m 50 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens				•
	REMOTE CONTROLS					
236243	CD 6/8	8 m manual remote control	•	•		•
236244	CD 6/25	25 m manual remote control	•	•	•	•
236249	CD 6/50	50 m manual remote control	•	•		•
	OTHER OPTION[S]					
234912	Transport Trolley CT	10				•
031150	Roll bar protection	kit				•
031100	CB 2 carrying Belt Ki	it	•	•	•	
	TIG TORCHES WITH B	BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE				
020558	Torch RTX 17.4 4 m	- 140 A 35%	•			
020568	Torch RTX 26.4 4 m	- 180 A 35%	•	•	•	•







Roll bar protection (MATRIX 4200 E)



ARC / TRIARC

INDESTRUCTIBLE WORKHORSE



Excellent arc characteristic, product sturdiness and reliability are the main features of **ARC** and **TRIARC** models. Suitable for heavy duty application in maintenance, fabrication works, shipyards and steel construction, these machines ensure a great welding arc stability.

TRIARC grant more stable and softer arc being fitted with smoothing inductance and are also suitable for welding cellulosic electrodes.



- Continuous welding current adjustment by magnetic shunt
- Standard delivered with large wheels and strong handles for easy maneuverability
- Easy changeover of mains supply voltage by switch
- Welding current and electrode indicator











- Shunt adjustment
- Sturdy and reliable
- Good welding performance with any electrode

TECHNICAL DATA		ARC	TRIARC
		453	406/L
Three phase input 50/60 Hz	V + 10% /- 10%	230/400	230/400
Input Power @ I ² Max	kVA	32,5	29,8
Delayed Fuse (I eff)	A	63/35	50/32
Power Factor / cos φ		0,99	0,99
Efficiency Degree		0,68	0,66
Open circuit voltage	V	75	75
Current range	A	70 - 450	60 - 400
	A 100 %	230	230
Duty cycle at (40°C)	A 60 %	300	300
	A 35 %	400	400
Standards		EN 60974-1 •	EN 60974-10
Protection Class	IP	23 S	23 S
Dimensions (L x W x H)	mm	1120 x 570 x 725	1120 x 570 x 725
Weight	Kg	117	122

CODE		DESCRIPTION	ARC 453	TRIARC 406/L
	POWER SOURCE	S		
005325	ARC 453	230/400 V	•	
005335	TRIARC 406 / L	230/400 V		•
	ACCESSORY KITS			
460262	4+3 m 50 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm² safety connections - brush/hammer - shield with lens	•	•
	TIG TORCHES WI	TH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE		
020558	Torch RTX 17.4	4 m 140 A 35%	•	•
020568	Torch RTX 26.4	4 m 180 A 35%	•	•

ARCTRONIC

THE PIPE-WELD QUEEN





ARCTRONIC are sturdy, reliable, with excellent arc characteristics and recommended for highest standard applications with any electrode, they are suitable to be used in shipyards, steel construction and pipe welding.

ARCTRONIC ensure an extraordinary stability of the welding parameters and their "fast dynamic characteristic" allows to obtain quality results also with the most difficult cellulosic and basic electrodes.



- Adjustable Hot Start and Arc Force
- Electrode Anti-sticking Function
- Lift arc mode TIG welding striking
- Gouging facility with carbon electrodes (special version)
- "Stand by" function switching off the power source also from distance when not in use
- PCB in an isolated rack for protection against dust and dirt









Strong and powerful
Superior performance with any electrode
The best equipment for cellulosic electrode

TECHNICAL DATA		ARCTRONIC						
		426	626					
Three phase input 50/60 Hz	V +10% /- 10%	230/400	230/400					
Input Power @ I ² Max	kVA	32,5	47,4					
Delayed Fuse (I eff)	A	50/32	80/45					
Power Factor / cos Φ		0,70/0,80	0,75/0,80					
Efficiency Degree		0,65	0,65					
Open circuit voltage	V	64	64					
Current range	A	5 - 400	5 - 600					
	A 100 %	220	330					
Duty cycle at (40°C)	A 60 %	290	430					
	A 35 %	400	600					
Standards		EN 60974-1 • EN	N 60974-10 • S					
Protection Class	IP	23 S	23 S					
Dimensions (L x W x H)	mm	1260 x 730 x 615	1260 x 730 x 615					
Weight	Kg	147	196					

CODE	DESCRIPTION	ARCTRONIC 426	ARCTRONIC 626
	POWER SOURCES		
005624	ARCTRONIC 426 230/400 V	•	
005634	ARCTRONIC 626 230/400 V		•
	ACCESSORY KITS		
460262	4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections brush /hammer - shield with lens	•	
460264	4+3 m 70 mm ² cables with electrodeholder pincer, ground clamp and 70 mm ² safety connections brush / hammer - shield with lens		•
	REMOTE CONTROLS		
236241	CD 3/25 25 m manual remote control with geared down potentiometer	•	•
236242	CD 3/50 50 m manual remote control with geared down potentiometer	•	•
	OTHER OPTION[S]		
030962	Digital V/A meter Kit with "hold" function (*)	•	•
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE		
020568	Torch RTX 26.4 4 m - 180 A 35%	•	•





ROBOTICS & AUTOMATION

- 96 30 YEARS ROBOTIC EXPERIENCE
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- 102 ROBOT TIG DC SOLUTION
- 103 ROBOT TIG AC/DC SOLUTION



30 YEARS ROBOTIC EXPERIENCE



TECNOROBOT®

The secret of CEA's competence and strength in the robotics industry is also the special relationship with TECNOROBOT, leading Italian company in the field.

In fact, for the past two decades, CEA and TECNOROBOT have collaborated to provide the best solutions in welding integrated robotic systems to their customers.

In 2013, believing in the robotic market's force and opportunities, CEA and TECNOROBOT joined together, sealing the paths of the two companies together.

Member of bridge4companies, TECNOROBOT represents a point of reference for the robotic market as a manufacturer of innovative and high-quality solutions, thanks to 30 years of activity in the field of welding, manipulation and cutting.

FANUC integrators, their systems represent a unique solution based on customer needs. TECNOROBOT'S philosophy is not only limited to production, development and sales, but also to providing excellent advice and technical assistance to its customers.







WELDING & ROBOTICS

CEA has developed several products and interfaces for automation and robotics for MIG/MAG, MIG pulsed, TIG and PLASMA processes, by using its power sources. A team of experts is always able to suggest and propose the solutions better suiting different applications in line with the customer's needs.

DIGITECH equipments allow a flexible and economic integration with all major welding robots available on the market; thanks to the availability of feeders and versatile interfaces – digital and analogic/digital – these power sources can be either connected to new robotized equipment or utilized as a retrofit to existing robots.



RBS 15

Wire feeder to be fitted on both hollow wrist robots and traditional ones with external device.

Compact and light (only 6.2 kg) RBS 15 represents the ideal solution for any robotized application, being equipped with a 4 roll feeding mechanism, easily accessible also for roll replacements without any tooling, and having a double solenoid valve for gas and air.





RI-D

Digital Field Bus interface. Usable on robots with field bus controller.



RI-A 1

Analogic/Digital interface. Usable on robots with analogic/digital control.



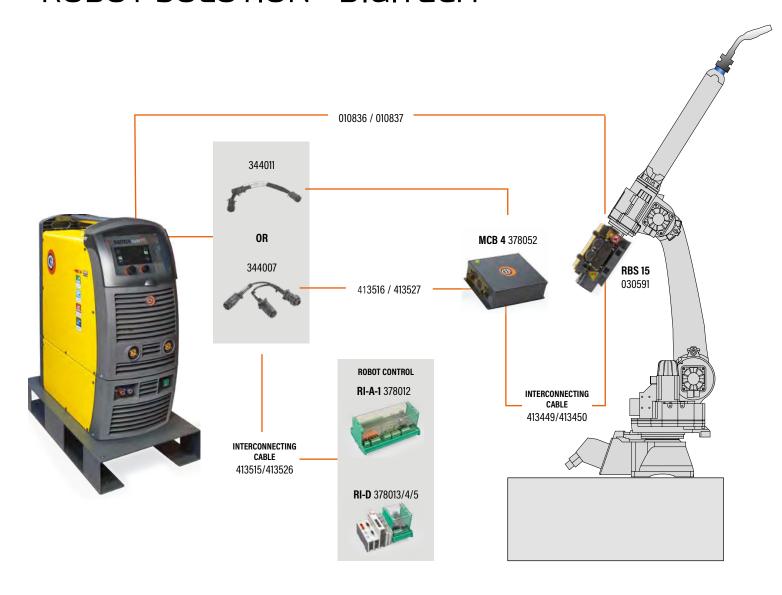
MCB4

Control box for the wire feeder and auxiliary functions purpose-designed to be fitted either inside the power source, or inside the external robot control or even on the robot structure depending on the integrator's needs.





ROBOT SOLUTION - DIGITECH











31102 - 281

344011

344007

032095 HR 31 032105 HR 41 -LC

SOFTWARE FOR SPECIAL PROCESS **PREMIUM FULL PACKAGE** > see page 15













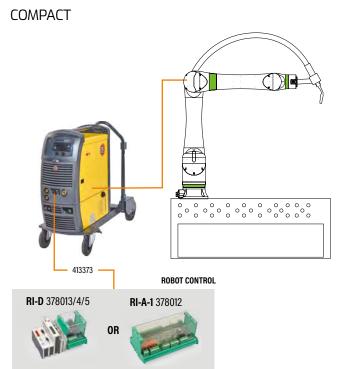


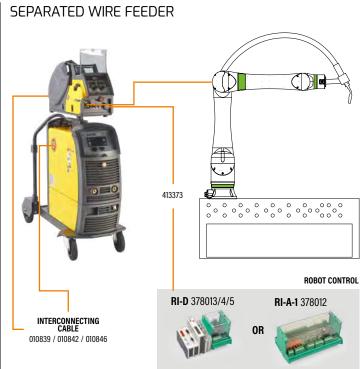


CODE	DESCRIPTION	DIGI 3300 Inte	4003	FECH S VP3 RFACE	DIGITECH 5003 VP3 INTERFACE		
		Analog.	1	Analog.	1	i	1
	DOMED COLIDORS	Allaloy.	Digital	Allaloy.	Digital	Allaloy.	Digita
004705	POWER SOURCES Power Source DIGITECH 3300 VP2 400 V	A	D				
004708	Power Source DIGITECH 4003 VP3 400 V			Α	D		
004713	Power Source DIGITECH 5003 VP3 400 V					Α	D
	SPECIAL VERSIONS - POWER SOURCE FITTED WITH SOFTWARE						
004705P	Power source DIGITECH 3300 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004708PR	Power source DIGITECH 4003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004713PR	Power source DIGITECH 5003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket SOFTWARE FOR SPECIAL MIG/MAG PROCESS			1			
050002	SM1 - SPECIAL MIG Process Package including: vision.COLD, vision.POWER, vision.ULTRASPEED, vision. PIPE and ECP - Extra Curves Package						
050003	SP2 - PERFORMANCE Process Package including: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRA- SPEED and ECP - Extra Curves Package						
050004	SFP - vision.FULL - PACKAGE complete with Special MIG Process Pack. (SM1) and Special PULSE Process: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP						
050050	ECP-Extra Curves Package to meet special application						
	INTERCONNECTING CABLES						
010836	5 m Air / Water cooled Interconnecting cable	A	D	Α	D	Α	D
010837	10 m Air / Water cooled Interconnecting cable						
	WIRE FEEDER						-
030591	Robot Wire Feeder RBS 15 with Euro Connect. 4 rolls (Ø 1.0 ÷ 1.2)	A	D	Α	D	Α	D
030593	Robot Wire Feeder RBS 15 with "L" Connect. 4 rolls (Ø 1.0 ÷ 1.2)						
	WATER COOLING						
032095	Water cooling equipment HR 31 400 V	A	D				
032105	Water cooling equipment HR 41 - LC 400 V reinforced pump - 4,5 bar		<u> </u>				
032125	Water cooling equipment HRX 51 400 V			A	D	Α	D
402275A	Cea CL-1100 cooling liquid - 5 Tank ROBOTICS PACKAGE	A	D	Α	D	Α	D
378052	MCB 4 - Motor Control Box	A	D	Α	D	Α	D
413449	5 m Interconnecting cable Wire Feeder - MCB 4	A	D	A	D	A	D
413450	10 m Interconnecting cable Wire Feeder - MCB 4		ט		U	_ ^	0
378012	Robot Interface RI-A1 Analogic/Digital	A		Α		A	
378013	Robot Interface RI-DD DeviceNet		DeviceNet		DeviceNet		DeviceNe
378014	Robot Interface RI-DE EtherNet/IP		EtherNet/IP		EtherNet/IP		EtherNet/
378015	Robot Interface RI-DP ProfiNet		ProfilNet		ProfilNet		ProfilNet
344007	Connector cable kit to link Power source with MCB 4 - interface (R1) to be used with 413516 or 413527						
344011	Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI)	A	D	Α	D	Α	D
413526	5 m Interconnecting cable Power source - Robot Interface	A	D	Α	D	Α	D
413515	10 m Interconnecting cable Power source - Robot Interface						
413527	2 m Interconnecting cable Power source - MCB 4						
413516	10 m Interconnecting cable Power source - MCB 4						
	GROUND CABLES						
239603	50 mm2 / 4 m Ground cable with clamp	A	D				
239607	70 mm2 / 4 m Ground cable with clamp			Α	D	Α	D
	TROLLEY AND SUPPORT BASE						
031165	Support Base SB 1 for Power source		-	-	-	-	-
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)						-
020240	OTHER OPTION[S] Autotrapsformer A 12 H 220/400 V 50/50 Hz 2 Phase		-	-		-	-
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase Aluminium Kit of double grooved TWIN rolls (Ø 1.0÷1.2) and gears kit for Al wires			-			1
030947 030949	Aluminium Kit of double grooved TWIN rolls (Ø 1.2÷1.6) and gears kit for Al wires		-	-			1
030343	DIGITECH 3300 VP2 ANALOGIC Interface COMPLETE PACKAGE Suggested version	A					
	DIGITECH 3300 VP2 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version	А	EtherNet/IP				
	DIGITECH 4003 VP3 ANALOGIC Interface COMPLETE PACKAGE Suggested version		EUICHNEUIF	Α			
	DIGITECH 4003 VP3 ANACOGIC INTERFACE COMPLETE PACKAGE Suggested version ETHERNET/IP Interface COMPLETE PACKAGE Suggested version			^	EtherNet/IP		
	DIGITEOR TOUS VIS ETITEMINE I/II INTENDE CONFELETE FACINAL SUGGESTEU VEISIUM				LUIGHTEUIF		
	DIGITECH 5003 VP3 ANALOGIC Interface COMPLETE PACKAGE Suggested version		1			Α	



COBOT SOLUTION





CODE	DESCRIPTION	3	ITECH 200
	DAMED ANDREA	ANALOG.	DIGITAL
004700	POWER SOURCES Power Source DIGITECH 3200 VP2 400 V (4 rolls for wire Ø 0,8÷1,0 mm)	Α.	D
004700	Prower Source Digitech 3200 VPZ 400 V (4 foils for wife & 0,8 ÷ 1,0 ffill) PREMIUM VERSION - POWER SOURCES	A	U
004700PR			
004700PK	Power Source DIGITECH 3200 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket SOFTWARE FOR SPECIAL MIG/MAG PROCESS		
050002			
050002	SMI - SPECIAL MIG Process Package including: vision.COLD, vision.PULSE-UP, vision.ULTRASPEED, vision.PIPE and ECP - Extra Curves Package SP2 - PERFORMANCE Process Package including: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP - Extra Curves Package		
			-
050004	SFP - vision.FULL-PACKAGE complete with Special MIG Process Pack. (SM1), Special PULSE Process: vision.PULSE-UP, vision.PULSE-RUN, vision.PULSE-POWER, E.C.P		-
050050	ECP - Extra Curves Package to meet special application		
22225	ALUMINIUM KIT		-
030895	Aluminium Kit of double grooved TWIN rolls (Ø: 0,8/1,0) and gears kit for Al wires		-
030897	Aluminium Kit of double grooved TWIN rolls (0: 1,0/1,2) and gears kit for Al wires		-
	WATER COOLING		-
032095	Water cooling equipment HR 31 400 V	A	D
402275A	Cea CL-1100 cooling liquid - 5 l Tank	A	D
	ROBOTICS PACKAGE		
378012	Robot Interface RI-A 1 Analogic/Digital	A	
378013	Robot Interface RI-DD DeviceNet		DeviceNe
378014	Robot Interface RI-DE EtherNet/IP		EtherNet
378015	Robot Interface RI-DP ProfiNet		ProfilNet
413373	2 m Interconnecting cable Power source - Robot Interface	A	D
	GROUND CABLES		
239603	50 mm ² / 4 m Ground cable with clamp	A	D
	TROLLEY AND SUPPORT BASE		1
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	A	D
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)		
031165	Support Base SB 1 for Power source		
	GAS REDUCERS		
020855	Reducer with 2 manometers		
020916	Reducer with flowmeter and 1 manometer		
	OPTIONAL		
236590	Metallic spool adaptor		
	DIGITECH 3200 VP2 - ANALOGIC Interface COMPLETE PACKAGE Suggested version	А	
	DIGITECH 3200 VP2 - ETHERNET/IP Interface COMPLETE PACKAGE Suggested version		EtherNet



	DESCRIPTION	3300	TECH) VP2 RFACE	4003	TECH 3 VP3 RFACE	DIGITECH 5003 VP3 INTERFACE		
		Analog.	1	Analog.	1	Analog.	1	
	POWER SOURCES							
004705	Power Source DIGITECH 3300 VP2 400 V	A	D					
004708	Power Source DIGITECH 4003 VP3 400 V			Α	D			
004713	Power Source DIGITECH 5003 VP3 400 V			1		Α	D	
	SPECIAL VERSIONS - POWER SOURCE FITTED WITH SOFTWARE							
004705PR	Power source DIGITECH 3300 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket							
004708PR	Power source DIGITECH 4003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket							
004713PR	Power source DIGITECH 5003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket							
	SOFTWARE FOR SPECIAL MIG/MAG PROCESS							
050002	SM1 - SPECIAL MIG Process Package including: vision.COLD, vision.POWER, vision.ULTRASPEED,							
	vision.PIPE and ECP - Extra Curves Package							
050003	SP2 - PERFORMANCE Process Package including: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP - Extra Curves Package		1	1 1 1 1 1 1 1		1 1 1 1 1 1 1		
050004	SFP - vision.FULL - PACKAGE complete with Special MIG Process Pack. (SM1) and Special PULSE Process: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP			1		1		
050050	ECP-Extra Curves Package to meet special application						1	
	INTERCONNECTING CABLES			1		1	1	
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	A	D	Α	D	Α	D	
010842	5 m Air / Water cooled Interconnecting cable							
010846	10 m Air / Water cooled Interconnecting cable							
	WIRE FEEDER			1		1		
030716	Wire Feeder HT 6 PRO DRIVE with Euro Connection 4 rolls (Ø 1.0÷1.2)	A	D	Α	D	Α	D	
031116	WK 4 standard wheels kit for HT 6 PRO DRIVE feeder							
031007	WK 2 extra-large wheels kit for HT 6 PRO DRIVE feeder							
	WATER COOLING							
032095	Water cooling equipment HR 31 400 V	Α	D					
032125	Water cooling equipment HRX 51 400 V			Α	D	Α	D	
402275A	Cea CL-1100 cooling liquid - 5 Tank	A	D	Α	D	Α	D	
	ROBOTICS PACKAGE							
378012	Robot Interface RI-A 1 Analogic/Digital	A		Α		Α		
on demand	Robot Interface RI-DM Modbus		Modbus		Modbus		Modbus	
378013	Robot Interface RI-DD DeviceNet		DeviceNet		DeviceNet		DeviceNet	
378014	Robot Interface RI-DE EtherNet/IP		EtherNet		EtherNet		EtherNet	
378015	Robot Interface RI-DP ProfiNet		ProfiNet		ProfiNet		ProfiNet	
413373	2 m Interconnecting cable Power source - Robot Interface	A	D	Α	D	Α	D	
	GROUND CABLES			<u> </u>		<u> </u>	-	
239603	50 mm2 / 4 m Ground cable with clamp	A	D					
239607	70 mm2 / 4 m Ground cable with clamp			Α	D	Α	D	
001105	TROLLEY AND SUPPORT BASE					1	 	
031165	Support Base SB 1 for Power source			Α		Α	-	
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	A	D	Α	D	Α	D	
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)						 	
020240	OTHER OPTION[S] Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase						 	
020340 030895	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase Aluminium Kit of double grooved TWIN rolls (Ø 0.8÷1.2) and gears kit for Al wires		-			-	-	
030895	Aluminium Kit of double grooved TWIN rolls (Ø 1.0÷1.2) and gears kit for Al wires Aluminium Kit of double grooved TWIN rolls (Ø 1.0÷1.2) and gears kit for Al wires						+	
030897	Aluminium Kit of double grooved TWIN rolls (Ø 1.0 ÷ 1.2) and gears kit for Al wires Aluminium Kit of double grooved TWIN rolls (Ø 1.2 ÷ 1.6) and gears kit for Al wires					-	-	
030033	DIGITECH 3300 VP2 ANALOGIC Interface COMPLETE PACKAGE Suggested version	A						
	DIGITECH 3300 VP2 ANALOGIC INTERFACE COMPLETE PACKAGE Suggested Version ETHERNET/IP Interface COMPLETE PACKAGE Suggested version	A	EtherNet					
			LUIGHNEL	Α				
					FtherNo+			
	DIGITECH 4003 VP3 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version DIGITECH 5003 VP3 ANALOGIC Interface COMPLETE PACKAGE Suggested version ANALOGIC Interface COMPLETE PACKAGE Suggested version				EtherNet	A		















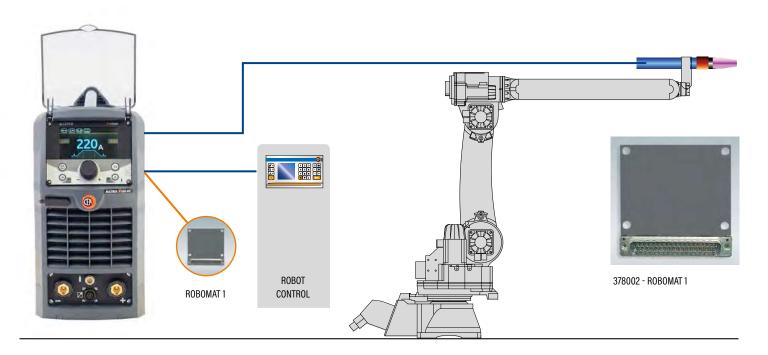






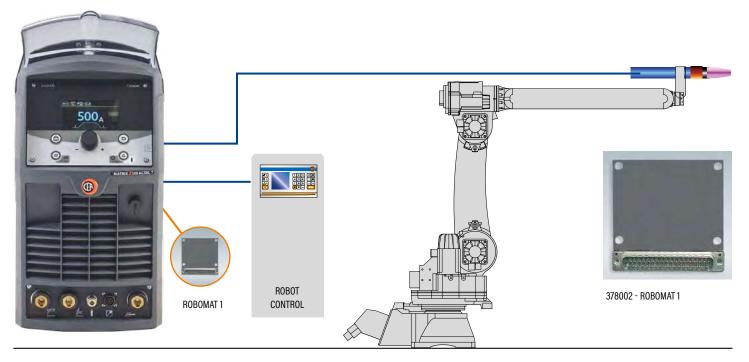
ROBOT TIG DC SOLUTION

MATRIX series three-phase power sources, in the special "R" version, can be easily integrated in TIG welding automated equipment by means of ROBOMAT 1 interface which handles both all the start/stop signals of the process and main welding parameter adjustments.



CODE	DESCRIPTION	MA 3000		TRIX HF-R	MATRIX X 220 HF-R			TRIX D HF-R	
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
	POWER SOURCES - DC				1				1
004531	Power source MATRIX 3000 HF-R 400 V - 3 Phase	•	≋						
004556	Power source MATRIX 4200 HF-R 400 V - 3 Phase			•	≈				
004508	Power source MATRIX X 220 HF-R 400 V - 1 Phase X vision control					•	≋		
004561	Power source MATRIX X 300 HF-R 400 V - 3 Phase X vision control							•	≈
	WATER COOLING								
032060	Water cooling equipment HR 23 400 V to be only ordered with related "VT" trolley		≋						
032098	Water cooling equipment HR 32 400 V				_ ≋				
032120	Water cooling equipment HRX 20 230 V						≋		
032115	Water cooling equipment HRX 30 400 V								[≋
031166	Adaptor Plate Kit for Matrix 4200 if used with CT 401 and HR 32				€				
402275A	Cea CL-1100 cooling liquid - 5 l Tank		€		≈		€		≅
	ROBOTICS PACKAGES								
413508	5 m Interconnecting cable ROBOMAT 1 / automatic equipment	•	≈	•	. ≋	•	≋	•	. ≈
378002	Robot Interface ROBOMAT 1	•	≈	•	. ≋	•	≋	•	≋
	GROUND CABLES								
239601	35 mm² / 4 m Ground cable with clamp	•	≈			•	≋	•	≋
239603	50 mm² / 4 m Ground cable with clamp				≅				
	TROLLEYS								
234929	Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder	•	. ≋			•	€	•	≋
234931	Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder			•	≈				
	OTHER OPTION								
460005	A6 Connection kit for non-standard Torch	•	≈	•	≈	•	≈	•	≋
	MATRIX 3000 HF-R robot use complete package Suggested air cooled version	•							
	MATRIX 3000 HF-R robot use complete package Suggested water cooled version		≋						
	MATRIX 4200 HF-R robot use complete package Suggested air cooled version			•					
	MATRIX 4200 HF-R robot use complete package Suggested water cooled version				≈				
	MATRIX X 220 HF-R robot use complete package Suggested air cooled version				1	•			1
	MATRIX X 220 HF-R robot use complete package Suggested water cooled version				1		≈		1
	MATRIX X 300 HF-R robot use complete package Suggested air cooled version				1			•	1
	MATRIX X 300 HF-R robot use complete package Suggested water cooled version								. ≈

ROBOT TIG AC/DC SOLUTION



CODE	DESCRIPTION		IX 3000 DC-R	l .	X X 220 DC-R		X X 300 DC-R	MATRIX X 400 AC/DC-R			IX X 500 /DC-R
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
	POWER SOURCES - AC/DC										
004536	Power source MATRIX 3000 AC/DC-R 400 V 3 Phase	•	≅								
004513	Power source MATRIX X 220 AC/DC-R 230 V 1 Phase X vision control			•	≈						
004566	Power source MATRIX X 300 AC/DC-R 400 V 3 Phase X vision control	i				•	≈				
004094	Power source MATRIX X 400 AC/DC-R 400 V 3 Phase X vision control							•	. ≋		
004098	Power source MATRIX X 500 AC/DC-R 400 V 3 Phase X vision control	i								•	₩ ≋
	WATER COOLING				1						1
032060	Water cooling equipment HR 23 400V ordered with "VT" trolley		≈								
032120	Water cooling equipment HRX 20 230 V				[≋						
032115	Water cooling equipment HRX 30 400 V						€ 8				
032130	Water cooling equipment HRX 52 400V ordered with "CT" trolley								- ≋		√ ≈
402275A	Cea CL-1100 cooling liquid - 5 Tank		≅		≈		≈		≅		€ 1
	ROBOTICS PACKAGES				1						1
413508	5 m Interconnecting cable ROBOMAT 1 / automatic equipment	•	≈	•	₩ ≋	•	≈		- ≋	•	₩ ≋
378002	Robot Interface ROBOMAT 1	•	₩ ≋	•	≅	•	≈	•	₩ ≋	•	₩ ≋
	GROUND CABLES										1
239601	35 mm ² / 4 m Ground cable with clamp	•	₩ ≋	•	. ≋	•	≈				1
239603	50 mm ² / 4 m Ground cable with clamp								- ≋		1
239607	70 mm ² / 4 m Ground cable with clamp									•	₩ ≋
	TROLLEYS										1
234929	Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder	•	₩ ≋	•	. ≋	•	≋				
234931	Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder										
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder							•	[≋	•	⊤ ≈
234932	Trolley CT 80 with 4 rolls for power source, cooling equipment and cylinder										1
	OTHER OPTION										1
460005	A6 Connection kit for non-standard Torch	•	₩ ≋	•	₩ ≋	•	≈	•	- ≋	•	₩ ≋
	MATRIX 3000 AC/DC-R complete package air cooled	•									
	MATRIX 3000 AC/DC-R complete package water cooled		₩ ≋		1						1
	MATRIX X 220 AC/DC-R complete package air cooled			•							
	MATRIX X 220 AC/DC-R complete package water cooled				≈						
	MATRIX X 300 AC/DC-R complete package air cooled				1	•					1
	MATRIX X 300 AC/DC-R complete package water cooled				1		≅ =				
	MATRIX X 400 AC/DC-R complete package air cooled										
	MATRIX X 400 AC/DC-R complete package water cooled				1				≈		1
	MATRIX X 500 AC/DC-R complete package air cooled				İ					•	-
	MATRIX X 500 AC/DC-R complete package water cooled				1					-	≈





INDUSTRY 4.0

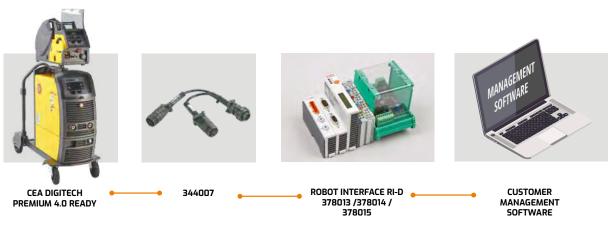
For Industry 4.0 we mean the transformation of manufacturing processes based on the digitalization of the factory, the connection between physical and digital systems and the interconnectivity of more equipment. Industry 4.0 certainly represents the fourth industrial revolution.

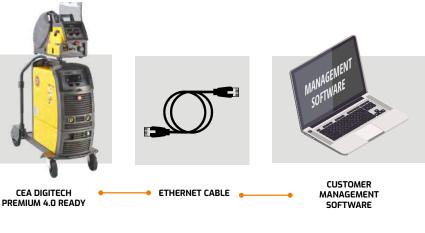
The main hubs around which this "revolution" revolves are represented by:

Interconnectivity between equipment in the production cycle.

Continuous monitoring of work conditions by means of appropriate set of sensors and adaptive capacity versus any process drift. Equipment remote control, maintenance and diagnosis.

Machines viewed as networked objects (IOT Internet of things).





CEA EQUIPMENT FOR INDUSTRY 4.0

In order to face the challenge of this philosophy, CEA has developed the new DIGITECH (4.0 VERSION) equipment and a series of support software, which, with no doubt, allow this equipment to be fully complying with INDUSTRY 4.0 concepts.

- The features of DIGITECH equipment can be briefly summarized as follows:
- Digital electronic control managed by a microprocessor.
- Graphical interface with user friendly and intuitive LCD display.
- Unique identifiability of the equipment through an IP address.
- Possibility of being connected to other equipment by an Ethernet or Wifi network.
- Possibility of remote activating programs or JOBS via Ethernet or Wifi.
- Possibility of interconnecting several networked equipment.
- Low energy consumption thanks to latest generation inverter power sources.
- Remote auto-diagnostic system.





CQM CEA QUALITY MANAGER



QUALITY CONTROL AND PARAMETER PRINTING

CQM "CEA QUALITY MANAGER" software has been developed by CEA to enable welding data recording, monitoring and printing by means of an external computer connected to one or more power sources of QUBOX and DIGITECH series.

Ideal for monitoring production and satisfying quality needs of the market, CEA QUALITY MANAGER enables to create customized detailed reports related to welding jobs made on various workpieces by several operators using different materials.

CEA QUALITY MANAGER is a very useful tool for:

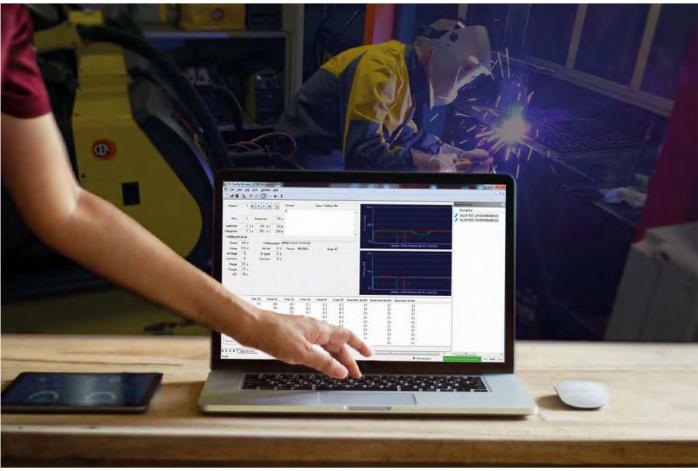
satisfying welding documentation requirements as prescribed by the buyers and by international norms such as EN 1090 $\,$

checking and monitoring the welding process

creating sheets and work procedures from laboratory to be transferred to production $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(

generating welding job printout sheets

CEA QUALITY MANAGER takes advantage from current, voltage and wire speed sensors integrated into the welding equipment, without utilizing any additional complex and expensive detecting instrument and interface systems. To make it work, it is enough to simply use an Ethernet connection and the welding data recording program is ready to operate, enabling the monitoring of one or more power sources connected via Ethernet to your computer.







RECORDING

Register every instant of all your DIGITECH welding data and reach an extraordinary level in quality control.



PRINTING

Easy printing of all the machine parameters and data for archiving in a standard CQM file or in excel.



WELDING PARAMETER CONTROL

Easy comparison of every welding instant with your pre-set parameters and remote control of your production without any additional testing operation.



BAR CODE READER

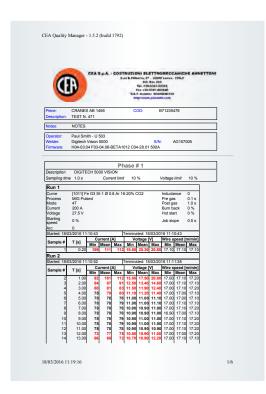
Get the workflow of your company even faster. Don't want to waste time in creating the registration setting on the PC? Add the BAR CODE READER option to your DIGITECH and create a more detailed recording file in an extremely fast and easy way, directly from the machine.

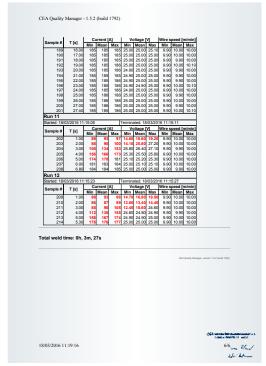


ETHERNET CONNECTION

Safe and reliable system. By Ethernet connection, CEA's software allows you to have a quick and stable connection in any working condition.



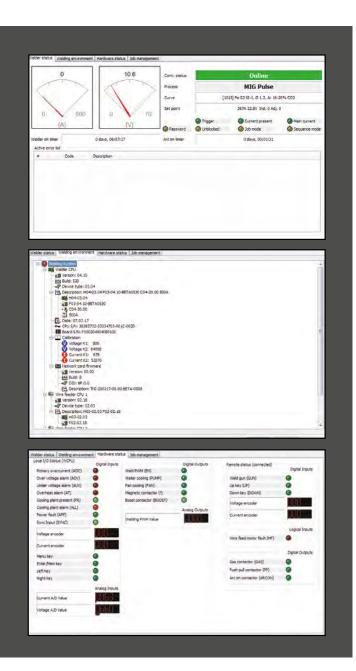








CWM CEA WELDER MANAGER



WELDER STATUS CONTROL AND WELDING JOB DUPLICATION

CWM: CEA WELDER MANAGER is a software which allows to monitor the status of one or more QUBOX and DIGITECH welding equipment, one another connected via Ethernet (or via Wifi as optional) by means of an external computer in the same network.

Ideal for the remote monitoring of the welding equipment status, including any faced anomaly, CEA WELDER MANAGER enables to save and duplicate JOBS from one equipment to another, by allowing to copy and paste exactly same setting on all available power sources, thus obtaining a perfect equality in their welding quality.

CEA WELDER MANAGER takes advantage from resources integrated into the welding equipment without utilizing any additional complex and expensive instruments and interface systems. To make it work, it is enough to simply use an Ethernet connection and the program is ready to operate.



WELDING MONITORING

Live control of one single machine for checking the real instant working situation and parameters.



PROBLEM CHECKING

Any machine error will be displayed for easy problem-solving.



JOB CLONE

Don't waste time for replicating the same job on any additional DIGITECH power source. Just clone one setting from one machine to another directly by your PC.

JOB SAVE AND DUPLICATION

More and more there is the need of a very high quality in welding and repeatability of the results. Once a series of JOBS has been created and memorized in one welding equipment, it would be a long and tiring task to manually re-input exactly same parameters into other power sources, with the risk of making involuntary mistakes.

CEA WELDER MANAGER allows to transfer JOBS from one equipment to others, by granting the reproducibility of the welding operations from one working place to another.

By connecting an external computer - onto which this software has been installed - to a welding equipment, it is possible to download all memorized JOBS (DOWNLOAD FROM WELDER) and create a file, which, thereafter, can be transferred to one or more power sources, by simply clicking onto UPLOAD TO WELDER icon.

CEA WELDER MANAGER is very useful to also make a JOB BACKUP and therefore safely keep memorized JOBS data onto an external unit from where, in case of failure or necessity, they can be retrieved.



CEA CALIBRATION SERVICE

This is a professional and guaranteed service able to provide all clients the calibration of all the measuring instruments fitted in the welding equipment.

WHAT IS CALIBRATION?

In arc welding process, welding quality itself is strictly subordinated, in addition to the experience and professionality of the operator, to the precision in adjusting and repeating same parameters, such as welding current, voltage and wire speed (MIG/MAG welding). Calibration means to verify the measuring precision of the instruments being utilized in your own welding equipment. This must fully meet what prescribed by EN 60974-14 norm, which clearly states methods, instruments and allowed tolerances as necessary for each operation.

WHAT FOR CALIBRATING?

To calibrate means to periodically check the measuring precision of the instruments provided into the welding equipment. Such a control grants the full compliance of the parameter tolerances and, therefore, allows you to repeat welding results by granting an unchanged quality while welding the workpiece.

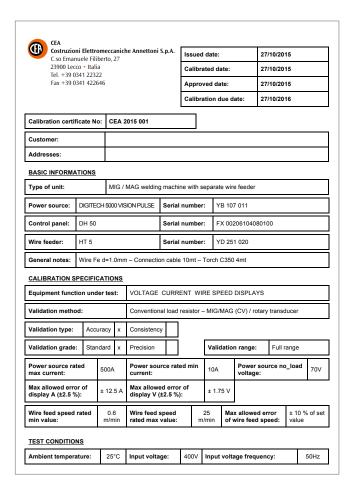
It also allows you to cope with instructions as prescribed in your WPS's related to the workpiece being welded.

CEA CALIBRATION

CEA calibration is obtained by connecting the power source to a conventional load in order to measure by means of precise and certified instruments both current and voltage as performed by the machine. In MIG/MAG also welding wire speed is to be controlled in the same way.

Whenever such a test is positive, a proper certificate is also released complete with all detected data and the power source is to be fitted with a sticker stating the test result together with its validity date.

Such a service has got various options ranging from calibration made in CEA factory just after the machine is completed on the assembly line, to calibration made directly at the final user's machine.



SET P	OINTS			VC	LTME	TER			-	AMMETER	R	
V ₂	l ₂		MEASURED VOLTAGE	AVERAGE MEASURED VOLT	DISPLAY	V AVERAG DISP INI		MEASURED CURRRENT	AVERAGE MEASUED CURRENT	DISPLAY A	AVERAGE DISP IND	ERROR
[V]	[A]		[V]	[V]	[V]	[V]	[V]	[A]	[A]	[A]	[A]	[A]
14.0	10	MEAS 1,1	13,35	13.11	13,3	13.15	5 0.04	9,34	9.27	9	9,0	-0,27
,0		MEAS 1,2	12,87	,	13,0	.,	, 0,01	9,20	0,2,	9		
20,25	125	MEAS 2,1	20,82	20,82	20,8	20,80	-0,02	125,80	125,67	125	125,0	-0,67
		MEAS 2,2	20,82		20,8		-	125,54		125		
26,5	250	MEAS 3,1 MEAS 3,2	27,33	27,24	27,3	27,25	0,01	251,20 250.80	251,00	250 250	250,0	-1,00
		MEAS 4,1	33,00		32.9	+	+	375,80		375	075.0	0.50
32,75	375	MEAS 4.2	32.80	32,90	32.8	32,85	-0,05	375.20	375,50	375	375,0	-0,50
		MEAS 5.1	40.40		40.5			499.60		500		
39,0	500	MEAS 5,2	39,90	40,15	40,0	40,25	0,10	499,40	499,50	500	500,0	0,50
						•						
SET P	STAIC				WIF	RE SPE	ED METE	R				
WIRE S	PEED		MEASURED WIRE SPEE			DISPLAY RE SPEED	AVERAGE DISP IND	MAX ALLOWED ERROR	ERRO	OR .		
[m/min]			[m/min] [m/m	in] [r	n/min]	[m/min]	[m/min] [m/m	in]		
0.	n	MEAS 1,1	0,5	0.5	0	0,6	0.6	± 0.06	0.0	5		
0,	o .	MEAS 1,2	0,5	0,5	Ů	0,5	0,0	1 0,00	0,0	<u> </u>		
6.	7	MEAS 2,1	6,6	6.6	0	6,6	6.6	± 0.67	0,0	0		
		MEAS 2,2	6,6	.,,,		6,6		.,,,				
12	,8	MEAS 3,1	12,5	12,6	50	12,8	12,8	± 1,28	0,2	0		
		MEAS 3,2 MEAS 4,1	12,7 18,3			12,8 18,9						
18	,9	MEAS 4,1	18.5	18,4	10	18.9	18,9	± 1,89	0,5	0		
		MEAS 5,1	24.3	+	+	25.0			+			
25	,0	MEAS 5.2	24.3	24,3	30	24.9	25,0	± 2,50	0,6	5		
			,-			,-						
		EQUIPMEN	<u>Γ</u>									
RE		0110 10	1015			IPTION	4 B) (BC :				ATE EX	PIRE
CEA		SMP 1286 FLUKE 77							-R		AN 2016 CT 2016	
CEA		CURRENT					NG VOL I	AGE			CT 2016 AN 2016	
CEA		METRAHII					ELDING (CLIDDEN	IT		AN 2016	
CLA	VID41	WETRAIII	FRO = I	VIOLITIV	ILILK	FOR W	LLDING	CURREI		3/	MIN 2010	
CALIBE	RATION	RESULT					c			penecanid		S.p.4
RESUL	T:	Passed	x	Faile	d				av t. M	100 PTO. 27	- GCCD	
WORK	PERFOR	RMED BY:	R. V	/ALSEC	CHI	SIC	SNATURE	:		Form	Vely	/
* DDDO	VED BY		۸.	/ALSEC	CUI	e E	RVICE M.	ANACE	. 1	11.5	l A	



With effect from 1st July 2014 it is compulsory to comply with new EN1090 standard which, in civil engineering, imposes that all on-site construction welded products must be CE marked as foreseen by CPR 305/2011 (Construction Products Regulation) and by Directive 89/106/EEC.

EN 1090 standard consists of 3 parts, i.e.

EN 1090-1

defining the requirements for component compliance (CE marking)

EN 1090-2

defining the technical requirements for steel structures

EN 1090-3

defining technical requirements for aluminium structures

EN 1090-2 norm provides that the construction design engineer should also define the job risk level actually called "Execution Class" (EXC): EXC types are classified by an increasing number from 1 to 4, where 4 is to indicate the structure technically more complex.

EXC 1:

steel structures with strength class up to S275, e.g. agricultural construction such as barns

EXC 2:

steel structures with strength class up to \$700, e.g. civil buildings such as homes and offices from 2 to 15 stores.

EXC 3:

structures subjected to high degree of stress, e.g. buildings higher than 15 stores or bridges.

EXC 4:

special structures with extreme degree of resistivity, e.g. road or rail viaducts.

HOW CEA CAN HELP YOU

CEA has produced a collection of qualifying welding procedures called WPQR (Welding Procedure Qualification Record) from which other welding procedure specification are derived, i.e. the so called WPS (Welding Procedure Specification), which will help CEA customers, who will buy them, to satisfy one of the EN 1090 requirements for the erection of steel constructions according to EXC1 and EXC2 classes.

Supplied WPQR's and WPS's have been released and certified by the German competent authority SLV according to material composition, its thickness, type of joint, welding position, filler material, protective gas and valid for CONVEX and DIGITECH vision. PULSE power sources only.

FAO

CAN GIVEN WPS BE USED BY ANY WELDING EQUIPMENT?

Yes, but only if the used model is also clearly specified in the supplied WPS chosen to do the job.

WILL WPQR'S AND WPS'S ENABLE USE OF FILLER MATERIAL AND/OR GAS OF ANY BRAND?

Yes, provided that used products are supplied with certifications fully matching what prescribed in the given specifications.

ARE CEA SUPPLIED WPQR AND WPS "PACKAGES" SUFFICIENT TO ENABLE THE OPERATOR TO APPLY CE MARKING ON THE MANUFACTURED ITEM?

No, they are not. WPQR's and WPS's are just a help, in terms of costs and time, to reach a certification according to EN 1090 norm. Each client will have to comply with his obligations by carrying out the job after employing qualified welders and by granting adequate quality controls of the whole manufacturing process according to what specified by EN 3834. It will be also necessary to carry out a periodic maintenance program of the welding power source being used, by using - as said certified consumable material, strictly adhering what prescribed in the chosen welding specifications.

LIMITATION OF LIABILITY

CEA supplied WPS's and WPQR's will facilitate the qualification of the welding process (point 4 of CE certification). WPQR's, made in cooperation with SLV, are in conformity with current standards for the qualification of WPS's. WPS's supplied by CEA are valid for the execution of steel constructions made according to EXC 1 and EXC 2 above referred, as foreseen by EN 1090-2 standard with related application areas. The use of CEA supplied WPQR / WPS packages will not entitle the user to disregard the additional steps, as prescribed by EN 1090 and by CPR 305/2011, he will have to fully fulfil himself.

CEA is not liable in case of improper or poor use of any WPS, of any incorrect utilization of CEA power sources, of any mismatch between the welding equipment prescribed in WPQR and WPS and the one wrongly used during the welding process, of any mistake made by the user in the execution of WPQR/WPS and of the utilization of non-qualified personnel during the welding job.

It must be clear that only the user, manufacturing the welded structure, will be responsible for the correct application of CEA supplied WPS's and of the full compliance of that herein specified.

The user is fully liable and responsible for the CE marking for the finished manufactured product.

By purchasing CEA WPS's the buyer accepts all that is contained within this document.



CWM & CQM for DIGITECH

CODE	DESCRIPTION
	CWM&CQM for DIGITECH
031108	CWM - CEA WELDER MANAGER Software tools to be installed on PC (No license for power source required)
031105	CQM - CEA QUALITY MANAGER Software tools complete with CWM - CEA WELDER MANAGER Software tools to be installed on PC. (License for Power source must be ordered separately) (***)
050062	Unitary License for any single power source to be connected and used with CQM
031106	Ethernet Adaptor KIT for power source
	Technical support on site for training and first set up of the system
	(***) To exploit the maximum potential of the CQM system with a QR/Barcode reader , it is necessary to use the CQM with the special DIGITECH PREMIUM 4.0 power sources (see below). These equipments are already prepared by CEA before delivery to be connected to the QR reader/Barcodes. It is also possible - if needed - to connect these special power sources to a WiFi NETWORK by adding the part no. 031101. Note: this feature cannot be implemented afterwards on any equipment different from version DIGITECH 4.0.

INDUSTRY 4.0

CODE	DESCRIPTION
	DIGITECH 'S READY FOR INDUSTRY 4.0 - PREPARED ALSO TO BE CONNECTED TO WIFI LAN
004707	Power source DIGITECH 3300 VP2 - 4.0 Ready - 400V Ethernet & USB socket (*)
004709	Power source DIGITECH 4003 VP3 - 4.0 Ready - 400V Ethernet & USB socket (*)
004714	Power source DIGITECH 5003 VP3 - 4.0 Ready - 400V Ethernet & USB socket (*)
004707PR	Power source DIGITECH 3300 VP2 - Premium 4.0 Ready -400V vision.FULL PACKAGE & Ethernet & USB socket (*)
004709PR	Power source DIGITECH 4003 VP3 - Premium 4.0 Ready -400V vision.FULL PACKAGE & Ethernet & USB socket (*)
004714PR	Power source DIGITECH 5003 VP3 - Premium 4.0 Ready -400V vision.FULL PACKAGE & Ethernet & USB socket (*)
050064	Unitary License for any single power source to be ready for INDUSTRY 4,0 requirement (***)
NOTE:	(*) Unitary License 050064 included in the power source
	(***) This software allows to receive Input Data and return Output Data via Ethernet port
	OTHER OPTION(S)
419137	QR and Barcode WiFi reader Additional Kit (Not included in the power source) ONLY with DIGITECH 4.0 code: 004707, 004712, 004718, 004707PR, 004712PR, 004718PR
031101	Wireless transmission Kit from Power source to NETWORK for Wi-Fi transmission ONLY with DIGITECH 4.0 code: 004707, 004712, 004718, 004707PR, 004712PR, 004718PR

	Ethernet Socket	USB socket for QR reader	USB socket for WIFI	CWM	CQM	Wireless QR reader	WIFI Connection kit
Digitech	0			0	0		
Digitech PREMIUM	Х			0	0		
Digitech 4.0	Х	Χ	Х	0	0	0	0
Digitech PREMIUM 4.0	Х	Х	Х	0	0	0	0

X = Included O = Compatible/Optional

EN 1090 WPQR - WPS

CODE	DESCRIPTION
	EN 1090 WPQR - WPS
051000	Collection of WPQR & WPS for DIGITECH Range - Italian
051005	Collection of WPQR & WPS for DIGITECH Range - English
051010	Collection of WPQR & WPS for DIGITECH Range - German
	CALIBRATION CERTIFICATES
	CALIBRATION CERTIFICATE FOR CONVEX, MAXIQ, QUBOX AND DIGITECH Range
	Calibration certificate of Power source and wire feeder - at the order before the delivery
	CALIBRATION CERTIFICATE FOR CONVEX, MAXIQ, QUBOX AND DIGITECH Range ALREADY DELIVERED
	Calibration certificate with Calibration made in CEA Factory (Transports cost at customer's care)
	Calibration certificate with Calibration made at CUSTOMER premises with the exclusion of: Travelling time, Milage allowance, and all other travelling and transport expenses





ACCESSORIES

MIG MAG ACCESSORIES

- 114 WIRE FEEDERS
- 115 WIRE FEEDER ACCESSORIES
- 116 FEEDING ROLLS TABLE
- 118 MIG TORCHES
- 123 WATER COOLERS
- 123 INTERCONNECTING CABLES
- 124 TROLLEYS
- 124 GROUND CABLES
- 125 GAS REDUCERS
- 125 OTHER ACCESSORIES

TIG ACCESSORIES

- 126 TIG TORCHES
- 128 TROLLEYS
- 128 GROUND CABLES
- 128 GAS REDUCERS
- 129 WATER COOLERS
- 129 OTHER ACCESSORIES

MMA ACCESSORIES

- 130 MMA TORCHES
- 130 OTHER ACCESSORIES



WIRE FEEDERS

MIG ACCESSORIES















HT6 PRO DRIVE

MF4 YARD



HT5

MINI MF4

YARD 4

CODE		ı	DESCRIPTIONS			MAXII	MAXI Q	QYARD	QUBOX	рівітесн	MAXI
	WIRE FEEDERS										
030635	Closed Wire Feeder	WF 5	with 4 rolls	(Ø 1.0 / 1.2)		•		<u> </u>			•
030755	Closed Wire Feeder	SWF STRONG FEEDER	with 4 rolls	(Ø 1.0 / 1.2)		•	1	1			•
030636	Wire Feeder	WF 6	with 4 rolls	(Ø: 1,0 / 1,2)	Air cooled version	•		i !			•
030730	Wire Feeder	MF 4 Hybrid Synergic ¹	with 4 rolls	(Ø: 1,0 / 1,2)	Air cooled version		•				
030735	Wire Feeder	MF 4 W Hybrid Synergic F	with 4 rolls	(Ø: 1,0 / 1,2)	Water cooled version	į	•				
030731	Wire Feeder	MF 4 yard	with 4 rolls	(0: 1,0 / 1,2)	Air cooled			•			
030736	Wire Feeder	MF 4 W yard	with 4 rolls	(Ø: 1,0 / 1,2)	Water cooled			•			
030726	Wire Feeder	QF 7 W PRO DRIVE	with 4 rolls	(Ø: 1,0 / 1,2)	Water cooled			į	•		
030715	Wire Feeder	HT 5	with 4 rolls	(Ø 1.0 / 1.2)		į				•	
030716	Wire Feeder	HT 6 PRO DRVE	with 4 rolls	(Ø 1.0 / 1.2)		į				•	
	YARD WIRE FEEDERS	S - 200 mm SP00L									
030727	Wire Feeder	Mini MF 4 yard	with A/V and	Flowmeter -	4 rolls (Ø: 1,0 / 1,2) Air cooled			•			
030728	Wire Feeder	Mini MF 4 W yard	with A/V and	Flowmeter -	4 rolls (Ø: 1,0 / 1,2) Water cooled			•			
030724	Wire Feeder	YARD 4	with A/V and	Flowmeter -	4 rolls (0: 1,0 / 1,2) Air cooled				•		
030729	Wire Feeder	YARD 4 W	with A/V and	Flowmeter -	4 rolls (Ø: 1,0 / 1,2) Water cooled				•		



WIRE FEEDER ACCESSORIES

MIG ACCESSORIES











DOUBLE FEEDER SUPPORT HT6



FASTENING PLATE FOR WF5

HK1



ADAPTOR SOCKET FOR MMA



SPOOL COVER TR2 TR4

CODE	DESCRIPTIONS	MF4	MF4W	MF4 YARD	MF4 W YARD	QF7 W PRO DRIVE	YARD 4	YARD 4 W	HT5	HT6 PR0 DRIVE	WF5	SWF	WF6
	WHEELS KIT												
031116	WK 1 standard wheels kit			İ					•		i !		
031007	WK 2 extra-large wheels kit	•	•	•	•	•		İ	•	•	İ		•
031116	WK 4 standard wheels kit	•	•	•	•	•				•			•
0309627	WF WHEELS KIT with fastening plate										•		
	OTHER ACCESORIES												
031117	HK1 - Hanging Kit	•	•	•	•	•				•			
400034	ADAPTOR socket for MMA			•	•								
030873	Support and connection kit for double HT6 wire feeder for Digitech VP2									•			
031120	Support and connection kit for double HT6 wire feeder for Digitech VP3									•			
030887	Fastening plate to fix interconnective cable to WF5										•		
031009	"MXi" to connect water cooled interconnecting cable to wire feeder								1		1		•
420430	Complete spool cover for TR2 and TR4												



FEEDING ROLLS TABLE

MIG ACCESSORIES

FEEDER MECHANISMS IN PRODUCTION

* The machine models in bold are in production

















CODE	Ø WIRE mm	MATERIAL	TYPE OF ROLL			EEDER				
OODL	D WITE IIII	W/ (I ETII/1E	THE OF HOLE	A	В	C	D	E	F	G
458904	0,6 - 0,8	Steel	Motor	1						
458907	0,8 - 1,0	Steel	Motor	1						
458917	1,0 - 1,2	Steel	Motor	1						
458937	1,0 - 1,2	Aluminium	Motor	1						
458903	0,6 - 0,8	Steel	Motor		2		2	2		
458905	0,8 - 1,0	Steel	Motor		2		2	2		
458915	1,0 - 1,2	Steel	Motor		2		2	2		
458925	1,2 - 1,6	Steel	Motor		2		2	2		
459170	0,6 - 0,8	Steel	Motor			1			1	
459172	0,8 - 1,0	Steel	Motor			1				
459174	1,0 - 1,2	Steel	Motor			1				
458930	0,8 - 1,0	Aluminium	Motor		2					
458935	1,0 - 1,2	Aluminium	Motor		2					
458945	1,2 - 1,6	Aluminium	Motor		2					
458950	1,0 - 1,2	Flux cored	Motor		2		2	2		
458955	1,2 - 1,6	Flux cored	Motor		2		2	2		
458965	1,6 - (2,0) - 2,4	Flux cored	Motor		2		2	2		
458979	0,8 twin	Aluminium	Idle		-		1-	2		-
458981	1,0 twin	Aluminium	Idle		 	 	 	2	1	-
458984	1,2 twin	Aluminium	Idle		 	 	 	2	-	-
458987	1,6 twin	Aluminium	Idle		 	 	 	2		-
458968	0,8 - 1,0 twin	Aluminium	Motor			 	4	2		-
458970	1,0 - 1,2 twin	Aluminium	Motor		 	 	4	2		-
458975	1,2 - 1,6 twin	Aluminium	Motor		-	-	4	-	1	-
459180	0,8 - 1,0	Aluminium	Motor		-	1	+ -		1	-
459182	1,0 - 1,2	Aluminium	Motor			1	-	-		-
459190	1,0 - 1,2	Flux cored	Motor			1	-			-
459001		Steel	Idle			1			2	2
459001	0,6 - 0,8	Steel	Motor			-			2	2
459002	0,8 - 0,9	Steel				-			2	2
459003	0,8 - 0,9	Steel	Motor Motor			-	-	-	2	2
459003		Steel	Motor			-	-	-	-	2
	1,0 - 1,2					-	-	-	2	
459010	1,0 twin	Aluminium	Idle			-			2	-
459011	1,2 twin	Aluminium	Idle		-	-	-	-	2	
459013	1,0 twin	Aluminium	Motor			-			2	-
459014	1,2 twin	Aluminium	Motor						2	
459020	1,0 twin	Flux cored	Idle						2	<u> </u>
459021	1,2 twin	Flux cored	Idle						2	-
459019	1,6 twin	Flux cored	Idle						2	1
459022	1,0 twin	Flux cored	Motor						2	
459023	1,2 twin	Flux cored	Motor						2	
459024	1,6 twin	Flux cored	Motor						2	



FEEDER MECHANISMS OF EQUIPMENT OUT OF PRODUCTION













CODE	Ø WIRE mm	MATERIAL	TVDF OF DOLL		(Quantity	oer FEEDE	R	
CODE	Ø WIKE MM	MAIERIAL	TYPE OF ROLL	Н	1	L	M	N	0
159250	0,6 - 0,8	Steel / FCW	Motor	1					
159251	0,8 - 1,0	Steel / FCW	Motor	1					
159261	1,0 - 1,2	Steel / FCW	Motor	1					
459260	0,8 - 1,0	Aluminium	Motor	1					
459107	0,6 - 0,8	Steel	Motor		1	1			
459125	0,8 - 1,0	Steel	Motor		1	1			
459159	1,0 - 1,2	Steel	Motor			1			
458846	1,0 - 1,2	Aluminium	Motor		1	1			
458903	0,6 - 0,8	Steel	Motor		1	1			2
458905	0,8 - 1,0	Steel	Motor		1				2
458915	1,0 - 1,2	Steel	Motor		1				2
458925	1,2 - 1,6	Steel	Motor		1				2
459121	0,8	Steel	Motor				1		_
459161	1,0	Steel	Motor		1		1		
459201	1,2	Steel	Motor				1		
459241	1,6	Steel	Motor				1		
459281	2,0	Steel	Motor				1		
459123	0,8	Steel	Motor					2	
459163	1,0	Steel	Motor					2	
459203	1,2	Steel	Motor					2	
459244	1,6	Steel	Motor					2	
459284	2,0	Steel	Motor					2	
458849	1,2	Aluminium	Motor				1		
458853	1,6	Aluminium	Motor				1		
458930	0,8 - 1,0	Aluminium	Motor		1				
458935	1,0 - 1,2	Aluminium	Motor		1				
458945	1,2 - 1,6	Aluminium	Motor		1				
459333	1,2	Flux cored	Motor				1		
459242	1,6	Flux cored	Motor				1		
458950	1,0 - 1,2	Flux cored	Motor		1				2
458955	1,2 - 1,6	Flux cored	Motor		1				2
458965	1,6 - (2,0) - 2,4	Flux cored	Motor		1				2
459106	All	Steel	Idle				1		
459086	0,8	Aluminium	Idle				1	4	
459087	1,0	Aluminium	Idle				1	4	
459088	1,2	Aluminium	Idle				1	4	
459089	1,6	Aluminium	Idle				1	4	
458968	0,8 - 1,0 twin	Aluminium	Motor						2
458970	1,0 - 1,2 twin	Aluminium	Motor		1				2
458978	0,8 - 1,0 twin	Aluminium	Idle		1	1			2
458980	1,0 - 1,2 twin	Aluminium	Idle						2
458975	1,2 - 1,6 twin	Aluminium	Motor		1	1			2
458985	1,2 - 1,6 twin	Aluminium	Idle		1				2
459090	1,6	Flux cored	Idle				1	4	_
459092	2,4	Flux cored	Idle		1	1	1	4	
459106	All	Steel	Idle					2	



MIG TORCHES

MIG ACCESSORIES







CEA CX - CXH TORCH

CEA C TORCH

UP/DOWN TORCH

CODE			DES	CRIPTION
	CEA MIG TORCHES CX and CXH series			
020458	CEA Torch CX 251/3	3 m	wire Ø 0.6÷1.0	CO2 260A @60% / Mix 200A @60%
020459	CEA Torch CX 251/4	4 m	wire Ø 0.6÷1.0	CO2 260A @60% / Mix 200A @60%
020463	CEA Torch CX 351/4	4 m	wire Ø 0.8÷1.2	CO2 300A @60% / Mix 220A @60%
020465	CEA Torch CX 351/A	3 m	wire Ø 1.0÷1.2	for Aluminium CO2 300A @60% / Mix 220A @60%
020466	CEA Torch CX 353/4	4 m	wire Ø 0.8÷1.2	CO2 340A @60% / Mix 290A @60%
020471	CEA Torch CX 451/4	4 m	wire Ø 0.8÷1.6	CO2 400A @60% / Mix 300A @60%
020472	CEA Torch CXH 302/4	4 m	wire Ø 0.8÷1.2	water cooled CO2 300A @100% / Mix 250A @100%
020473	CEA Torch CXH 302/A	3 m	wire Ø 0,8÷1.2	water cooled for Aluminium CO2 300A @100% / Mix 250A @100%
020479	CEA Torch CXH 402/4	4 m	wire Ø 0.8÷1.6	water cooled CO2 500A @100% / Mix 450A @100%
020480	CEA Torch CXH 402/A	3 m	wire Ø 1.0÷1.6	water cooled for Aluminium CO2 500A @100% / Mix 450A @100%
020481	CEA Torch CXH 502/4	4 m	wire Ø 1.0÷1.6	water cooled CO2 500A @100% / Mix 500A @100%
	CEA MIG TORCHES WITH CONSUMABLE	ES SIMILAR	TO BINZEL	
020420	CEA Torch C 15/3	3 m	wire Ø 0.6÷1.0	
020421	CEA Torch C 25/3	3 m	wire Ø 0.6÷1.0	
020422	CEA Torch C 25/4	4 m	wire Ø 0.6÷1.0	
020424	CEA Torch C 36/4	4 m	wire Ø 0,8÷1.2	
	ABICOR BINZEL MIG TORCHES			
020499	BINZEL Torch MB 36 KD	4 m	wire Ø 0,8÷1,2	UP/DOWN
020498	BINZEL Torch MB 36 KD	4 m	wire Ø 0,8÷1,2	UP/DOWN 6p. for Convex Mobile
020438	BINZEL Torch ABIMIG Grip W 555 D	3 m	wire Ø 0,8÷1,6	water cooled
020439	BINZEL Torch ABIMIG Grip W 555 D	4 m	wire Ø 0,8÷1,6	water cooled
020430	BINZEL Torch ABIMIG Grip W 555 D	3 m	wire Ø 0,8÷1,6	water cooled UP/DOWN
020431	BINZEL Torch ABIMIG Grip W 555 D	4 m	wire Ø 0,8÷1,6	water cooled UP/DOWN
020432	BINZEL Torch ABIMIG Grip W 555 D	4 m	wire Ø 0,8÷1,6	water cooled UP/DOWN 6p. for Convex Mobile
	ABICOR BINZEL PUSH PULL			
020488	Push Pull Torch PP 401 D	8 m 24 V	wire Ø 0,8÷1,2 v	vater cooled (to be ordered w. 031107 or 031113)
020448	Push Pull Torch PP 401 D PLUS	8 m 24 V	wire Ø 0,8÷1,2 v	vater cooled (to be ordered w. 031107 or 031113)
031107	Push Pull synchronizer PC Board KIT (to	be ordered	d with the Push pul	l torch)
031113	Push Pull synchronizer PC Board KIT 24	/ 42 V (to b	e ordered with the	Push pull torch)



UP DOWN TORCHES / PUSH PULL MATCHING

CODE			DESCRIPTION		TREO / TREOSTAR	CONVEX MOBILE	SMARTCAR	CONVEX	DOGMA	MAXI i	MAXIQ	Q-YARD	QUBOX	DIGITECH
020499	BINZEL Torch MB 36 KD	4 m	UP/DOWN					•	•		•	•	•	•
020498	BINZEL Torch MB 36 KD	4 m	UP/DOWN 6p. fo	or Convex Mobile		•								
020430	BINZEL Torch ABIMIG Grip W 555 D	3 m	wire Ø 0,8÷1,6	water cooled UP/DOWN				•	•		•	•	•	•
020431	BINZEL Torch ABIMIG Grip W 555 D	4 m	wire Ø 0,8÷1,6	water cooled UP/DOWN				•	•		•	•	•	•
020432	BINZEL Torch ABIMIG Grip W 555 D	4 m	wire Ø 0,8÷1,6	water cooled UP/DOWN 6p.		•								
	ABICOR BINZEL PUSH PULL													
020488	Push Pull Torch PP 401 D	8 m 24	V wire Ø 0,8÷1,2	water cooled (to be ordered w. 031107 or 031113)					•		•	•	•	•
020448	Push Pull Torch PP 401 D PLUS	8 m 24	V wire Ø 0,8÷1,2	water cooled (to be ordered w. 031107 or 031113)					•		•	•	•	•
031107	Push Pull Synchronizer PC Board KIT			_									•*	•*
031113	Push Pull Synchronizer PC Board KIT	24/42 \	1	·					•		•	•	•	•

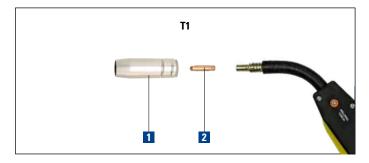
* for QF4, HT5

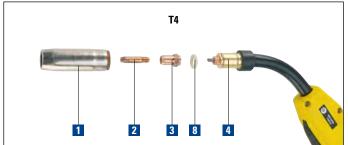


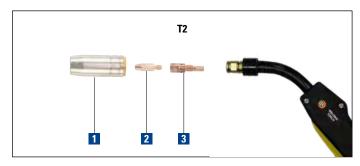


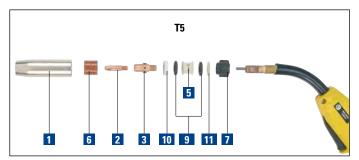


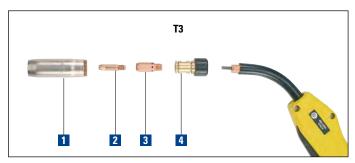
CONSUMABLES FOR MIG/MAG TORCHES

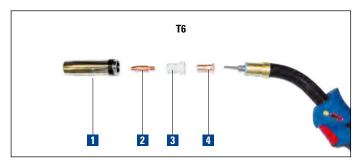












		T1	T2			1	3				T4		T5	T6	
CODE	DESCRIPTION	C 15	C 25	C 36 - MB 36 KD U/D	C 250 - CX 251	C 350 - CX 351	C 350/A - CX 351/A	D 361	C 450 - CX 451	СН 301 - СХН 302	CH 401 - CXH 402	DH 411	CH 501 - CXH 502	AB W 555 D	SET / QTY
1	GAS NOZZLES														
486120	Gas Nozzle				•			•							1
486121	Gas Nozzle					•	•								1
486137	Gas Nozzle									•					1
486122	Gas Nozzle								•		•	•			1
486127	Gas Nozzle												•		1
486035	Gas Nozzle													•	1
486137	Gas Nozzle									•					1
486128	Cone shaped Gas Nozzle				•			•							1
486151	Cone shaped Gas Nozzle					•	•								1
486138	Cone shaped Gas Nozzle									•					1
486182	Cone shaped Gas Nozzle	•													1
486154	Cone shaped Gas Nozzle								•		•	•			1
486206	Cone shaped Gas Nozzle		•												1
486031	Cone shaped Gas Nozzle			•											1
486034	Cone shaped Gas Nozzle													•	1
486149	Cylindric gas nozzle									•					1
486155	Cylindric gas nozzle										•				1
486184	Narrow Cone shaped Gas Nozzle	•													1
486210	Narrow Cone shaped Gas Nozzle		•												1
486030	Narrow Cone shaped Gas Nozzle			•											1
486033	Narrow Cone shaped Gas Nozzle													•	1



		T1	T2			•	Г3				T4		T5	T6	
				9											
CODE	DESCRIPTION	C 15	C 25	C 36 - MB 36 KD U/D	C 250 - CX 251	C 350 - CX 351	C 350/A - CX 351/A	D 361	C 450 - CX 451	СН 301 - СХН 302	СН 401 - СХН 402	DH 411	CH 501 - CXH 502	AB W 555 D	SET / Q.TY
2	CONTACT TIPS														10
486171 486177	Ø 0,6 mm Contact Tip Ø 0,6 mm Contact Tip - Cu-Cr-Zr	•													10 10
486173	Ø 0,8 mm Contact Tip	•													10
454808	Ø 0,8 mm Contact Tip				•			•							10
454798	Ø 0,8 mm Contact Tip					•	•		•	•					10
486189	Ø 0,8 mm Contact Tip		•												10
454820 486179	Ø 0,8 mm Contact Tip Ø 0,8 mm Contact Tip - Cu-Cr-Zr			•	-		-	-						•	10 10
486195	Ø 0,8 mm Contact Tip - Cu-Cr-Zr	•	•					-							10
454810	Ø 0,8 mm Contact Tip - Cu-Cr-Zr		_		•			•							5
454797	Ø 0,8 mm Contact Tip - Cu-Cr-Zr				1	•	•		•	•					5
454824	Ø 0,8 mm Contact Tip - Cu-Cr-Zr			•										•	10
454838	Ø 1,0 mm Contact Tip				•			•							10
486175 454878	Ø 1,0 mm Contact Tip Ø 1,0 mm Contact Tip	•		-		•	•		•	•	•	•	•		10 10
486191	Ø 1,0 mm Contact Tip		•												10
454821	Ø 1,0 mm Contact Tip		_	•										•	10
486181	Ø 1,0 mm Contact Tip - Cu-Cr-Zr	•													10
454876	Ø 1,0 mm Contact Tip - Cu-Cr-Zr					•	•		•	•	•	•	•		5
454844	Ø 1,0 mm Contact Tip - Cu-Cr-Zr				•			•							5
486197 454825	Ø 1,0 mm Contact Tip - Cu-Cr-Zr Ø 1,0 mm Contact Tip - Cu-Cr-Zr		•	•										•	10 10
486203	Ø 1,0 mm Contact Tip for Al		•					-							10
454851	Ø 1,0 mm Contact Tip for Al			•										•	10
454958	Ø 1,2 mm Contact Tip					•	•		•	•	•	•	•		10
454845	Ø 1,2 mm Contact Tip		_		•			•							10
486193 454822	Ø 1,2 mm Contact Tip Ø 1,2 mm Contact Tip		•	•				-						•	10 10
486199	Ø 1,2 mm Contact Tip - Cu-Cr-Zr		•					-							10
454957	Ø 1,2 mm Contact Tip - Cu-Cr-Zr					•	•		•	•	•	•	•		5
454846	Ø 1,2 mm Contact Tip - Cu-Cr-Zr				•			•							5
454826	Ø 1,2 mm Contact Tip - Cu-Cr-Zr			•										•	10
486205 454852	Ø 1,2 mm Contact Tip for Al Ø 1,2 mm Contact Tip for Al		•	•										•	10 10
454998	Ø 1,6 mm Contact Tip			•					•		•	•	•		10
454823	Ø 1,6 mm Contact Tip													•	10
454997	Ø 1,6 mm Contact Tip - Cu-Cr-Zr					1			•		•	•	•		5
454827	Ø 1,6 mm Contact Tip - Cu-Cr-Zr													•	10
454853	Ø 1,6 mm Contact Tip for Al										_			•	10
455168 455167	Ø 2,0 mm Contact Tip Ø 2,0 mm Contact Tip - Cu-Cr-Zr										•		•		10 5
3	GAS DIFFUSERS														<u>J</u>
423220	Gas Diffuser				•			•							1
423221	Gas Diffuser					•	•								1
423422	Gas Diffuser								•						1
423218	Gas Diffuser									•					1
423219 455445	Gas Diffuser Gas Diffuser			-				-			•	•	•		1
423217	Gas Diffuser		•										_		1
423423	Ceramic Gas Diffuser			•											1
423421	Gas Diffuser														1
423420	Gas Diffuser													•	1
4 452220	GAZ NOZZLE SUPPORTS Gas nozzle support														1
452220	Gas nozzle support				•	•	•	•							1
452222	Gas nozzle support					-			•						1
452224	Gas nozzle support									•					1
452223	Gas nozzle support										•	•			1
452226	Gas nozzle support			•				-						_	1
452225	Gas nozzle support			!	!	!	!							•	1



				T1	T2			Т	3				T4		T5	T6	
									ĪI								
CODE	DESCF	RIPTION				C 36 - MB 36 KD U/D	C 250 - CX 251	C 350 - CX 351	C 350/A - CX 351/A		C 450 - CX 451	CH 301 - CXH 302	CH 401 - CXH 402	_	CH 501 - CXH 502	AB W 555 D	SET / Q.TY
				C 15	C 25	98	220	320	320	D 361	450	E	Ξ	DH 411	E	B	
5	OTHER			- 3	3	3	3	3	3		<u>.</u>	-	3		-	⋖	
424391	Spacer				1										•		1
6	OTHER																'
407516	Insulation bush														•		1
7	OTHER																
430788	Locknut														•		1
8	OTHER																
458327	Insulating washer												•	•			1
400462	Insulating washer											•					1
9	OTHER																
433599	Seal														•		1
10	OTHER																
458304	Insulating washer														•		1
11	OTHER																
458305	Pressure washer														•		1
	LINER AND LINER LOCKIN	G COL	LETS														
454704	Liner locking collet			•	•	•	•	•	•	•		•	•	•	•		1
415620	Liner locking collet Ø 4.0																1
415621	Liner locking collet Ø 4.7															•	1
432345	Liner	3 m	for wire Ø 0.6÷0.8	•	•	•										•	1
432405	Liner	3 m	for wire Ø 1.0÷1.2						•								1
432350	Liner	3 m	for wire Ø 1.0÷1.2	•	•	•										•	1
432401	Liner	3 m	for wire Ø 1.0÷1.2														1
432419	Liner	3 m	for wire Ø 1.0÷1.2		1			!	•								1
432394	Liner	3 m	for wire Ø 1.0÷1.2														1
432430	Carbon teflon / Bronze liner	3 m	for wire Ø 1.0÷1.2		•	•										•	1
432395	Liner	3 m	for wire Ø 1.2÷1.6	i													1
432421	Liner	3 m	for wire Ø 1.2÷1.6														1
432425	Liner	3 m	for wire Ø 1.4÷1.6													•	1
432428	Carbon teflon liner	3 m	for wire Ø 1,6 Al													•	1
432396	Liner	3 m	for wire Ø 2.0÷2.4										•				1
432355	Liner	4 m	for wire Ø 0.6÷0.8		•	•	•	•								•	1
432402	Liner	4 m	for wire Ø 0.6÷1.0							•							1
432360	Liner	4 m	for wire Ø 1.0÷1.2		•	•		•				•				•	1
432406	Liner	4 m	for wire Ø 1.0÷1.2														1
432390	Liner	4 m	for wire Ø 1.0÷1.2												•		1
432431	Carbon teflon / Bronze liner	4 m	for wire Ø 1.0÷1.2			•										•	1
432407	Liner	4 m	for wire Ø 1.2÷1.6														1
432391	Liner	4 m	for wire Ø 1.2÷1.6										•		•		1
432426	Liner	4 m	for wire Ø 1.4÷1.6		-											•	1
432429	Carbon teflon liner	4 m	for wire Ø 1.6 AI													•	1
432393	Liner	4 m	for wire Ø 1.6÷2.4		-	!		! !								1	1
432418	Carbon teflon / Bronze	4 m	for wire Ø 0.8÷1.0 Al	•	•	•	•	•	•	•	•	•	•	•	•		1
432416	Carbon teflon / Bronze	4 m	for wire Ø 1.2÷1.6 Al	•	•	•		•				•	•	•			1



WATER COOLERS

MIG ACCESSORIES







HR 32 HR 30 HR 42-LC Reinforced Pump



HR 31 HR 41-LC Reinforced Pump



HRX 51

CODE		DESCRIPTION	CONVEX MOBILE	CONVEX	Q YARD	DIGITECH 3200 VP2	DIGITECH 3300 VP2	DIGITECH VP3 4003 / 5003	COMPACT 410	MAXI
032050	Water cooling equipment IR 14	400 V							≋	≈
032055	Water cooling equipment IR 14	230 V							≋	≋
032090	Water cooling equipment HR 30	400 V	≋	≋	≋	≋	≋			
032095	Water cooling equipment HR 31	400 V					≋			
032098	Water cooling equipment HR 32	400 V	≋	≋	≋	≋				
032105	Water cooling equipment HR 41-LC	400 V reinforced pump - 4,5 bar - for connection length over 20 m					≋			
032107	Water cooling equipment HR 42-LC	400 V reinforced pump - 4,5 bar - for connection length over 20 m			≋					
032125	Water cooling equipment HRX 51	400 V						≋		

INTERCONNECTING CABLES





ANALOGIC INTERCONNECTING CABLES



DIGITAL INTERCONNECTING CABLES

CODE	DESCRIPTION	MAXI I	MAXI Q	QYARD	qubox	рівітесн	MAXI
010930	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	•					•
010935	5 m Air cooled Interconnecting cable Power source-Wire feeder	•					•
010940	10 m Air cooled Interconnecting cable Power source-Wire feeder	•					•
020894	20 m / 70 mm ² Air cooled	•					•
020845	30 m / 70 mm ² Air cooled	•					•
010945	1,2 m Water cooled Interconnecting cable Power source-Wire feeder	≋					≋
010950	5 m Water cooled Interconnecting cable Power source-Wire feeder	≋					≋
010955	10 m Water cooled Interconnecting cable Power source-Wire feeder	≋					≋
020844	20 m / 70 mm ² Water cooled	≋					≋
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder		•	•	•	•	
010864	4 m Air cooled Interconnecting cable Power source-Wire feeder		•	•	•	•	
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder		•	•	•	•	
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder		•	•	•	•	
010871	20 m / 70 mm ² Air cooled		•	•	•	•	
010869	30 m / 70 mm ² Air cooled		•	•	•	•	
010872	40 m / 70 mm ² Air cooled		•	•	•	•	
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋	≋	≋	
010841	4 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≈	≋	≋	
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋	≋	≋	
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋	≋	≋	
010859	15 m / 70 mm ² Water cooled		≋	≈	≋	≋	
010854	20 m / 70 mm ² Water cooled		≋	≋	≋	≋	
010861	25 m / 70 mm ² Water cooled for with 032105 - HR 41-LC	1		≈		≋	
010876	30 m / 70 mm ² Water cooled for with 032105 - HR 41-LC			≈		≋	



TROLLEYS FOR MIG EQUIPMENT

MIG ACCESSORIES













CT 82









WK 2

Accessory BOX KIT / SUPPORT PLATE

CT 45

CODE	DESCRIPTION	TREO TREOSTAR	CONVEX MOBILE	CONVEX	Q YARD	DIGITECH VP2	DIGITECH VP3
031007	WK 2 extra-large wheels kit		•				
031008	WK 3 extra-large wheels kit for Q-YARD (without cylinder holder)						
234929	Trolley VT 101 for power source, cylinder	•					
234931	Trolley CT 401 for power source, cylinder		•				
234909	Trolley CT 45 for power source, cylinder			•			
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)			•			•
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)			•			•
234923	Trolley CT 72 LARGE with 4 rolls for power source, cooling equipment and two gas cylinders (and autotransformer)						
234935	Trolley CT 82 with 4 rolls for power source, cooling equipment and two gas cylinders (and autotransformer)						•
344013	Accessory BOX KIT (to be ordered with HR32)		•				
449478	Adaptor support plate for CONVEX MOBILE mounted on CT401		•				

GROUND CABLES









25 mm² / 3 m Ground cable

35 mm² / 4 m Ground cable

50 mm² / 4 m Ground cable

70 mm² / 4 m Ground cable

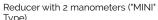
CODE		DESCRIPTION	
239618	25 mm ² / 3 m Ground cable with clamp		
239601	35 mm ² / 4 m Ground cable with clamp		
239603	50 mm ² / 4 m Ground cable with clamp		
239607	70 mm ² / 4 m Ground cable with clamp		



GAS REDUCERS

MIG ACCESSORIES







Reducer with 2 manometers



Reducer with flowmeter and 1 manometer



Reducer with flowmeter, 2 manometers and preheater

CODE	DESCRIPTION
020851	Reducer with 2 manometers ("MINI" Type)
020855	Reducer with 2 manometers
020916	Reducer with flowmeter and 1 manometer
020859	Reducer with flowmeter, 2 manometers and preheater 48 V
020810	Reducer with flowmeter, 2 manometers and preheater 230 V

OTHER ACCESSORIES

MIG ACCESSORIES



UltraLUX Welding Mask



CL-1100 cooling liquid 5l



Anti spatter Spray



Autotransformer A13-H

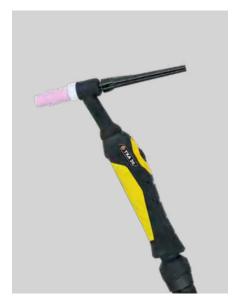
CODE	DESCRIPTION
020851	UtraLUX infinite shade adjustment from DIN 9÷13 by potentiometer
020855	Autotransformer A13-H 220/400 V 50/60 Hz 3 phase
020916	Cea CL-1100 cooling liquid - 5 l Tank
	ANTI SPATTER SPRAY
407222	ECOXWELD - 400 ml - Ecologic water based anti-spatter spray - Chlorinated and Silicon free
407222A	Package of 12 pieces of ECOXWELD - 400 ml
407223	CERAMXWELD - 500 ml - Ceramic based long lasting anti-spatter spray (*) - Chlorinated and Silicon Free
407223A	Package of 12 pieces of CERAMXWELD - 500 ml (*)

^{*}resist up to 1500℃



TIG TORCHES

TIG ACCESSORIES







CEA TXA/TXH TORCHES

CEA TXA/TXH UP/DOWN TORCHES

CEA RTX TORCHES





Kit Button / Potentiometer

Kit Button / UP/DOWN



CODE		DESCRIPTION
	CEA TIG TORCHES: TXA and TXH series	
020553	CEA Torch TXA 17.4	4 m - 140 A 60% (DC)
020555	CEA Torch TXA 17.8	8 m - 140 A 60% (DC)
020562	CEA Torch TXA 26.4	4 m - 250 A 60% (DC)
020567	CEA Torch TXA 26.8	8 m - 250 A 60% (DC)
020662	CEA Torch TXA 26.4 "UP/DOWN"	4 m - 250 A 60% (DC)
020663	CEA Torch TXA 26.8 "UP/DOWN"	8 m - 250 A 60% (DC)
020667	CEA Torch Mini TXH 20.4	4 m - 250 A 100% (DC) - water cooled
020668	CEA Torch Mini TXH 20.8	8 m - 250 A 100% (DC) - water cooled
020680	CEA Torch Mini TXH 20.4 "UP/DOWN"	4 m - 250 A 100% (DC) - water cooled
020681	CEA Torch Mini TXH 20.8 "UP/DOWN"	8 m - 250 A 100% (DC) - water cooled
020672	CEA Torch TXH 18.4	4 m - 320 A 100% (DC) - water cooled
020673	CEA Torch TXH 18.8	8 m - 320 A 100% (DC) - water cooled
020677	CEA Torch TXH 18.4 "UP/DOWN"	4 m - 320 A 100% (DC) - water cooled
020678	CEA Torch TXH 18.8 "UP/DOWN"	4 m - 320 A 100% (DC) - water cooled
454570	Kit Torches Button with Potentiometer	r to upgrade TXA and TXH standard TIG Torches
454567	Kit Torches Button with "UP/DOWN"	to upgrade TXA and TXH standard TIG Torches
	TIG TORCHES WITH BUILT-IN GAS VALVE F	OR TOUCH-START TECHNIQUE
020556	Torch RTX 9.4 4 m - 110 A 35%	25 mm² quick connector
020558	Torch RTX 17.4 4 m - 140 A 35%	
020559	Torch RTX 17.8 8 m - 140 A 35%	
020568	Torch RTX 26.4 4 m - 180 A 35%	
020569	Torch RTX 26.8 8 m - 180 A 35%	
	All the torches are completed with Tungs	ten electrode





							TI	G TORG	٦µ						
		_	6	Ξ	4	92				<u>6</u>	∞		2		
CODE	DESCRIPTION	TA 9/TXA 9	RTA 9/RTX 9	RTA 17/RTX 17	TA 17 / TXA 17	RTA 26/ RTX 26	TA 26-TXA 26		TA 27-TXA 27	TH 19-TXH 19	TH 18-TXH 18		TH 20-TXH 20		SET / Q.TY
		A9/	TA 9,	TA 17	A 17 /	TA 26	A 26-	TG 26	A 27-	H 19	H 18	TW 18	H 29	TW 20	
	OFDAMIO MOZZI FO	F	~	~	12	~	F	-	F	-	-	-	-	-	
1	CERAMIC NOZZLES							-							
486091	Ceramic nozzle Gr.4 - int. Ø 6,5 mm	•	•	-									•	•	1
486068	Ceramic nozzle Gr.4 - int. Ø 6,5 mm					•	•	•	•	•	•	•			<u>'</u>
486092	Ceramic nozzle Gr.5 - int. Ø 8 mm	•	•											•	1
486069	Ceramic nozzle Gr.5 - int. Ø 8 mm			•	•	•	•	•	•	•	•	•			1
486093	Ceramic nozzle Gr.6 - int. Ø 10 mm	•	•										•	•	1
486070 486094	Ceramic nozzle Gr.6 - int. Ø 10 mm Ceramic nozzle Gr.7 - int. Ø 11 mm			•	•	•	•	•	•	•	•	•			1
486071	Ceramic nozzle Gr.7 - Int. Ø 11 mm	•	•										•	•	1
				•	•	•	•	•	•	•	•	•			1
486072	Ceramic nozzle Gr.8 - int. Ø 12 mm COLLET HOLDERS			•	•					•	•	•			-
451985	Collet holder Ø 1,0 mm	•	•										•	•	1
426025	Collet holder Ø 1,0 mm	•	•	•	•									•	1
451986	Collet holder Ø 1,6 mm	•		•											1
426021	Collet holder Ø 1,6 mm	_	•	•	•	•	•	•	•	•	•	•	•	•	1
451987	Collet holder Ø 2,4 mm	•	•	-	-	_	-	_	-	-	-	-	•	•	1
426022	Collet holder Ø 2,4 mm	_	_	•	•	•	•	•	•	•	•	•		_	1
426022	Collet holder Ø 3,2 mm			•		•	•	•	•	•	•	•			1
451988	Collet holder Ø 3,2 mm											•	•	•	1
426024	Collet holder Ø 4,0 mm									•	•	•		•	1
3	COLLETS														
450785	Collet Ø 1,0 mm	•	•										•	•	1
450793	Collet Ø 1,0 mm		•	•	•									•	1
450786	Collet Ø 1,6 mm	•	•	•									•	•	1
450794	Collet Ø 1,6 mm	-	•	•	•	•	•	•	•	•	•	•		•	1
450787	Collet Ø 2,4 mm	•	•										•	•	1
450795	Collet Ø 2,4 mm	-		•	•	•	•	•	•	•	•	•			1
450796	Collet Ø 3,2 mm	-	-			•	•	•	•	•	•	•		-	1
450788	Collet Ø 3,2 mm												•	•	1
450797	Collet Ø 4,0 mm									•	•	•			1
4	NOZZLES SIDE INSULATION RINGS														
436141	Insulating ring	•	•										•	•	1
436148	Insulating ring			•		•	•	•	•	•	•	•			1
5	SEALS														
433480	Seal	•	•										•	•	1
433482	Seal			•		•	•	•	•	•	•	•			1
6	CAPS														
410556	Short cap	•	•										•	•	1
410570	Short cap			•	•	•	•	•	•	•		•			1
410557	Long cap	•	•										•	•	1
410560	Long cap			•	•	•	•	•	•	•	•	•			1
	GAS LENS CERAMIC NOZZLES														
486096	GAS LENS Ceramic nozzle Gr. 5 - int.Ø 8 mm												•	•	1
486097	GAS LENS Ceramic nozzle Gr. 6 - int.Ø 10 mm	•	•										•	_	1
486064	GAS LENS Ceramic nozzle Gr. 6 - int.Ø 10 mm			•	•	•	•	•	•		•	•			1
486098	GAS LENS Ceramic nozzle Gr. 7 - int.Ø 11 mm	•	•										•	•	1
486065	GAS LENS Ceramic nozzle Gr. 7 - int.Ø 11 mm			•	•	•	•	•	•	•	•	•			1
486066	GAS LENS Ceramic nozzle Gr. 8 - int.Ø 12 mm			•	•	•	•	•	•	•	•	•			1
	GAS LENS COLLET HOLDERS														
451995	GAS LENS Collet holder Ø 1,6 mm	•	•										•	•	1
451998	GAS LENS Collet holder Ø 1,6 mm			•	•	•	•	•	•		•	•			1
451996	GAS LENS Collet holder Ø 2,4 mm	•	•										•	•	1
451999	GAS LENS Collet holder Ø 2,4 mm			•	•	•	•	•	•	•	•	•			1
451994	GAS LENS Collet holder Ø 3,2 mm					•	•	•	•	•	•	•			1
451997	GAS LENS Collet holder Ø 3,2 mm												•	•	1
451989	GAS LENS Collet holder Ø 4,0 mm	!						!		•		•			1



TROLLEYS FOR TIG EQUIPMENT

TIG ACCESSORIES













V 1 101

with adaptor support plate

CT 70

CT 75

CT 80

CODE	DESCRIPTION	MATRIX 2200 HF Matrix 2600 HF Matrix 3000 HF Matrix 3001 HF	MATRIX 4200 HF	MATRIX X 220 HF Matrix X 300 HF	MATRIX 2200 AC/DC Matrix 3000 AC/DC	MATRIX 4100 AC/DC Matrix 5100 AC/DC	MATRIX X 220 AC/DC Matrix X 300 AC/DC	MATRIX X 400 AC/DC MATRIX X 500 AC/DC
234929	Trolley VT 101 for power source, cylinder	•		•	•		•	
234921	Trolley VT 200 for power source, HR 23 cooling equipment and cylinder							
234931	Trolley CT 401 for power source, cylinder	•	•	•	•		•	
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)					•		•
22.4020	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)					•		•
234928								
234928	Trolley CT 80 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)			1	1			•

GROUND CABLES







50 mm² / 4 m Ground cable

(CODE DESCRIPTION	
239624	16 mm ² / 3 m Ground cable with clamp	
239618	25 mm ² / 3 m Ground cable with clamp	
239601	35 mm ² / 4 m Ground cable with clamp	
239603	50 mm ² / 4 m Ground cable with clamp	

GAS REDUCERS



Reducer with 2 manometers ("MINI" Type)



Reducer with flowmeter and 1 manometer

CODE	DESCRIPTION
020851	Reducer with 2 manometers ("MINI" Type)
020916	Reducer with flowmeter and 1 manometer



WATER COOLERS

TIG ACCESSORIES









HR 22 / HR 23

HRX 20 / HRX 30

HR 30 / HR 32

HRX 52

CODE		DESCRIPTION	MATRIX 2200 HF	MATRIX 2600 HF Matrix 3000 HF Matrix 3001 HF	MATRIX 4200 HF	MATRIX X 220 HF	MATRIX X 300 HF	MATRIX 2200 AC/DC	MATRIX 3000 AC/DC	MATRIX 4100 AC/DC Matrix 5100 AC/DC	MATRIX X 220 AC/DC	MATRIX X 300 AC/DC	MATRIX X 400 AC/DC Matrix X 500 AC/DC
032065	Water cooling equipment HR 22	230 V	≋					≋					
032060	Water cooling equipment HR 23	400 V		≋	≋				≋				
032090	Water cooling equipment HR 30	400 V			≋					≋			
032098	Water cooling equipment HR 32	400 V			≋					≋			
032120	Water cooling equipment HRX 20	230 V				≋					≋		
032115	Water cooling equipment HRX 30	400 V					≋					≋	
032130	Water cooling equipment HRX 52	400 V											≋
414363	Input cable Adapter to connect	HR 23 with MATRIX 4200 HF			≋								

OTHER ACCESSORIES

TIG ACCESSORIES



PR7



Adapter for simultaneous connection of Torch and PSR 7



CD 6/8



KIT A6



TSA1 TIG Simple Automation KIT







UtraLUX

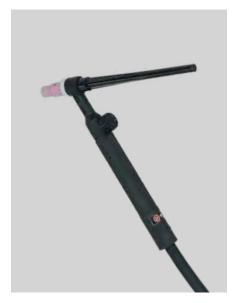


CL-1100

DI XI / DI /	NO DUST TILLE	GL-1100			
CODE		DESCRIPTION			
	REMOTE CONTROLS				
020919	PSR 7	5 m foot remote control			
460056	Adapter	for simultaneous connection of Torch and PSR 7			
236243	CD 6/8	8 m remote control with geared down potentiometer			
	OTHER				
46005	A6 Connecti	on kit for non-standard Torch			
031118	TSA1 TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10 V) for MATRIX X 220 / X 300				
031119	TSA5 TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10 V) for MATRIX X 400 / X 500				
353485	DFX1 Dust Filter for MATRIX X 220 / X 300				
353486	DFX5 Dust Filter for MATRIX X 400 / X 500				
020851	UtraLUX infinite shade adjustment from DIN 9÷13 by potentiometer				
402275A	Cea CL-1100 cooling liquid - 5 l Tank				



TIG TORCHES WITH BUILT-IN GAS VALVE



ORDER INFORMATION

CODE	DESCRIPTION
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE
020558	Torch RTX 17.4 4 m - 140 A 35%
020559	Torch RTX 17.8 8 m - 140 A 35%
020568	Torch RTX 26.4 4 m - 180 A 35%
020569	Torch RTX 26.8 8 m - 180 A 35%



CEA RTX TORCHES

OTHER ACCESSORIES

MMA ACCESSORIES



Remote control



Trolley CT 10



Roll bar protection kit



Carrying Belt Kit



Rainbow Bag

CODE	DESCRIPTION				
	ACCESSORY KIT				
460281	3+2 m 16 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ²			
460286	4+3 m 25 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens			
460292	4+3 m 35 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens			
460262	4+3 m 50 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm² safety connections - brush/hammer - shield with lens			
460264	4+3 m 70 mm ² cables with electrodeholder pincer, ground clamp and 70 mm ² safety connections - brush/hammer - shield with lens				
	REMOTE CONTROLS				
236243	CD 6/8	8 m manual remote control			
236244	CD 6/25	25 m manual remote control			
236249	CD 6/50	50 m manual remote control			
	OTHER				
234912	Transport Trolley CT 10				
031150	Roll bar protection kit				
201752	Kit of 2 male 50 mm ² safety connections				
031100	CB 2 carrying Belt Kit				
030963	Rainbow Bag				

SYMBOLS LIST



MIG/MAG welding



TIG HF welding



MIG Pulsed welding



TIG-Lift welding



MIG Double Pulsed welding



MMA welding with stick electrode



Single phase input



Ability to store personalized welding parameters up to 99 Jobs



Three phase input



Energy Saving function to operate the power source cooling fan and torch water cooling only when necessary



Constant Current and Constant Voltage



High Resolution digital display



Constant Current



Step adjustment



Constant Voltage



TIG pulsation



Direct current output



Alternative and direct current output



Synergic adjustment



Shunt Adjustment



Voltage reduction device



