CEA arc welding catalogue 2023



WELDING TOGETHER





2023



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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 ensure 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 harmonised 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 stabilising devices.

 IEC 60974-5
 EN 60974-5
 Wire feeders.

 IEC 60974-7
 EN 60974-7
 Torches.

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



PRODUCT **INDEX**

6. INTRODUCTION

- 6 A GLOBAL PRESENCE
- 8 CEA GOES GREEN
- 9 ECO DESIGN 2023
- 10 INNOVATION AND TECHNOLOGY
- 11 BRIDGE 4 COMPANIES

12. MIG/MAG

- 14 ARC CONTROL SOFTWARE
- 15 SPECIAL WELDING PROCESSES
- 16 vision.COLD / vision.ULTRASPEED
- 17 vision.PIPE / vision.POWER
- 18 vision.PULSE-UP / vision.PULSE-RUN
- 19 vision.PULSE-POWER / ECP
- 20 TREO / TREOSTAR / TREOSTAR PULSE
- 22 SMARTCAR / SMARTCAR PULSE
- $24 \quad \text{CONVEX MOBILE} \, / \, \text{CONVEX MOBILE} \, \text{PULSE}$
- 26 CONVEX / CONVEX PULSE
- 30 DOGMA / DOGMA PULSE
- 36 MAXI i
- 40 MAXIQ
- 44 Q-YARD
- 48 QUBOX / QUBOX PULSE
- 52 DIGITECH VP2

MIG MAG CONVENTIONAL

- 60 SMARTMIG / COMPACT
- 12 MAXI

64. TIG

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

84. MMA

- 86 ROCK
- 88 PROJECT 2100
- 89 RAINBOW 180
- 90 MATRIX E

MMA CONVENTIONAL

- 92 ARC TRIARC
- 93 ARCTRONIC

94. ROBOTICS & AUTOMATION

- 96 30 YEARS ROBOTIC EXPERIENCE
- 97 WELDING & ROBOTICS
- 98 ROBOT SOLUTION DIGITEC VP2
- $100\,$ COBOT SOLUTION DIGITEC VP2 $\,$
- 102 ROBOT TIG DC SOLUTION
- 103 ROBOT TIG AC-DC SOLUTION

105. INDUSTRY 4.0

105 INDUSTRY 4.0106 CQM - CEA QUALITY MANAGER

108 CWM - CEA WELDER MANAGER 109 CEA CALIBRATION SERVICE 110 EN 1090

112. 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 TIG TORCHES WITH BUILT IN VALVE130 OTHER ACCESSORIES

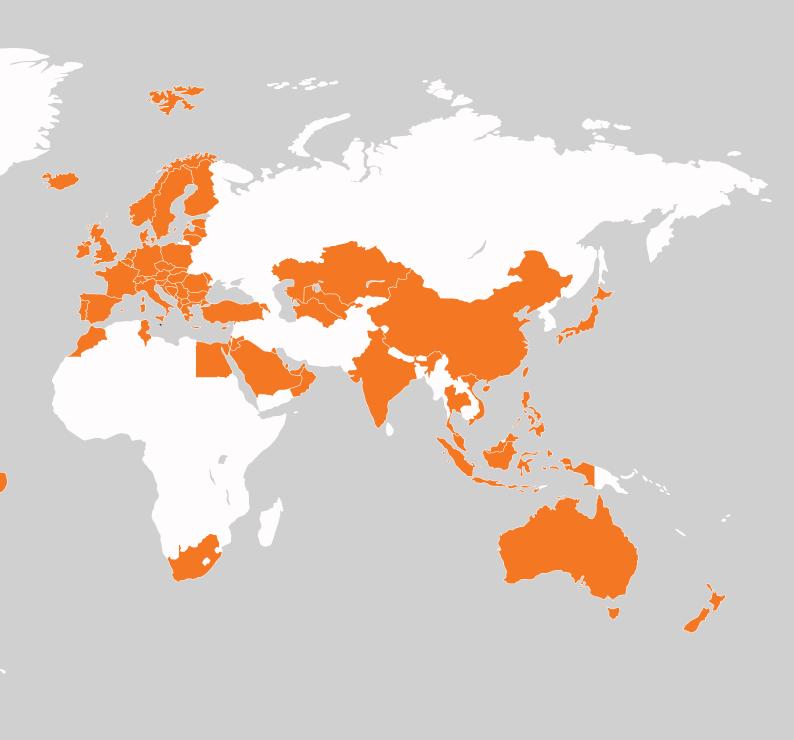
131. GENERAL INFORMATION

131 SYMBOL LIST

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.



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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 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 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 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.", enable 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



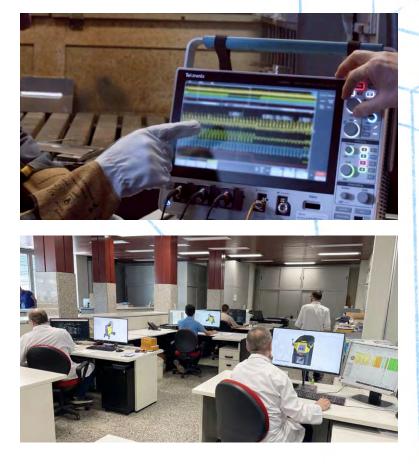


The new European Directive 2009/125/EC, better known as the ECODESIGN Directive, implements new standards of efficiency and eco-compatibility of welding machines. All CEA products market with the logos CEA GOES GREEN and ECODESIGN meet these requirements and thanks to their high efficiency, they perfectly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

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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





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.

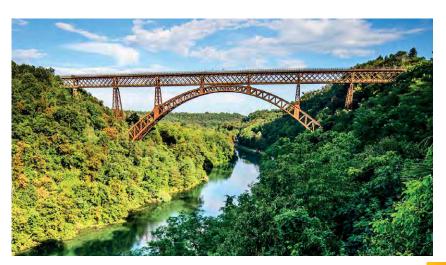
B4C is proof of the 4 companies' great attachment to the territory overlooking the edge of Lake Lecco and along Adda River's course, which, through great passion for their work and continuous research of quality, have managed to assert themselves on all major world markets.

www.bridge4companies.com













MIG MAG

- 14 ARC CONTROL SOFTWARE
- 15 SPECIAL WELDING PROCESSES
- 20 TREO / TREOSTAR / TREOSTAR PULSE
- 22 SMARTCAR / SMARTCAR PULSE
- 24 CONVEX MOBILE / CONVEX MOBILE PULSE
- 26 CONVEX / CONVEX PULSE
- 30 DOGMA / DOGMA PULSE
- 36 MAXI i
- 40 MAXIQ
- 44 Q-YARD
- 48 QUBOX / QUBOX PULSE
- 52 DIGITECH VP2

MIG MAG CONVENTIONAL

- 60 SMARTMIG / COMPACT
- 62 MAXI

ARC CONTROL SOFTWARE



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 experience in welding technology allowed CEA to develop this software for controlling arc dynamics and guarantee excellent performances in all MIG-MAG and MIG PULSE situations.

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

vision.ARC

digitally manages the short circuits typical of MIG-MAG welding, keeping the arc stable and precise in spite 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.

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 vision.MIG welding software.



vision.ARC 2

vision.COLD vision.ULTRASPEED vision.POWER vision.PIPE

vision.PULSE-POWER vision.PULSE-RUN vision.PULSE-UP vision.ARC 2 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 welding pulse impulse.

vision.ARC 2 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.Pulsed processes. The main advantages of vision.ARC2 versus the previous version are the following:

- improved arc stability
- optimization of the impulse characteristics
- 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



dual.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 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.ARC VISION.ARC2 袾 vision. vision. vision. vision COLD PIPE **ULTRASPEED** vision.COLD vision.ULTRASPEED vision.PIPE vision.POWER for low heat to weld small and for more accurate to obtain deeper transfer MIG/MAG medium thickness welding in pipe

PULSED MIG WELDING VISION. ARCZ

first root pass



at a far higher

speed

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

welding

for a faster and colder pulse welding

for a faster and more precise vertical up welding



penetration on medium and large thickness material





VISION.COLD

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

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

VISION.ULTRASPEED

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.

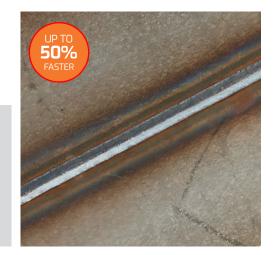
vision.ULTRASPEED allows to replace short-arc and mixed-arc MIG/MAG with a remarkable increase in the welding job completion.

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 bevelling 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

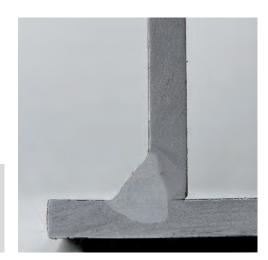
vision.POWER is the innovative MIG/MAG process developed by CEA for welding medium large thickness steel and non ferrous materials (aluminium, copper, etc.), whenever high penetration is required. By means of this special welding process, the arc cone becomes narrower, therefore its pressure is concentrated 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 transfer heavy reduction to eliminate hot cracking in the workpiece material
- · Less welding passes thanks to reduced angle sizes in the edge bevelling
- Far less risk of different solid material inclusion into the welding bead
- · Lack of porosity and blow holes
- No filler material overdepositing in butt joints
- Total lack of spatters and metallic projections

APPLICATIONS

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







VISION.PULSE-UP

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 effect 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 shortcircuits, 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 shortcircuits, 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)
- 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

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
- $\cdot\,$ Less consumption of both filler materials and shielding gas
- \cdot 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.

19



TREO / TREOSTAR / TREOSTAR PULSE

WELDING PERFORMANCE OVER THE EXPECTATION





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			TREOSTAR 1800			TREOSTAR 2000 PULSE			
		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)	A		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	A	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 • E	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	500 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

• 1 • V • m

ORDER INFORMATION

CODE	DESCRIPTION	TRE0 181	TREOSTAR 1800	TREOSTAR 2000 PULSE
	POWER SOURCES WITH TORCH			
003852	Power Source TREO 181 230V-1 ph for \emptyset 200 mm wire spool; interchangeable polarity; complete with: C 15 3m CEA torch, 16 mm ² / 3 m Ground cable and rolls for wire \emptyset 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 mm ² / 3 m Ground cable and rolls for wire Ø 0,6÷0,8 mm	•		
003865	Power Source TREOSTAR 1800230V-1 phfor \emptyset 200 mm wire spool; interchangeable polarity;16 mm² / 3 m Ground cable and rolls for wire \emptyset 0,6 \div 0,8 mm		•	
003875	Power Source TREOSTAR 2000 PULSE 230V-1 ph for \emptyset 200 mm wire spool; interchangeable polarity; 16 mm ² / 3 m Ground cable and rolls for wire \emptyset 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 mm ² cables with electrodeholder pincer, ground clamp and 50mm ² 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 are a new multiprocess synergic power sources for welding in MIG/MAG, MMA and TIG with "Lift" mode characterised 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 couse 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 thicknes laminations with low heat transfer



22

		SMARTO	AR 201 - SMARTCAR 20	15 PULSE	SMARTCAR 271 - SMARTCAR 275 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)	A		16		16	10	16		
Power Factor / $\cos \phi$		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	Ømm	300	-	-	300	-	-		
Standards				EN 60974-1 • EN 60974	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

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 integreted 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



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





		CONVEX MOB	ILE 201 / CONVEX MOB	ILE 205 PULSE	CONVEX MOBILE 251 / CONVEX MOBILE 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 @ I ² Max	kVA	6	4,6	7,1	10	8,5	11		
Delayed Fuse (I eff)	A	16	16	16	16	10	16		
Power Factor / $\cos \phi$		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	74-5 • 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			



Professional double groove feeding mechanism with 4 rolls

ORDER INFORMATION



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



To weld thicknes laminations with low heat transfer

			CONVEX	MOBILE		
CODE	DESCRIPTION	201	205 PULSE	251	255 F	ULSE
		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 (*)		٠			
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 (*)		0 		٠	≋
	(*) vision.COLD process and ECP integreted as a standard					
	ALUMINIUM ROLL KIT					
030866	Aluminium Kit of Single grooved TWIN rolls (Ø: 1,0)					
030867	Aluminium Kit of Single grooved TWIN rolls (Ø: 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	•	٠	● ≋	٠	≋
449478	Adaptor support plate for CONVEX MOBILE mounted on CT 401	•	٠	● ≋	٠	≋
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	•	٠	● ≋	٠	≋
	GAS REDUCERS					
020855	Reducer with 2 manometers	•	•	● ≋	٠	≋
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		٠			
	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 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



388 👯



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.

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.



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.





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



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



Extra Curve Package

		CON	IVEX	CONVEX PULSE			
TECHNICAL DATA		321	401	325	405		
Three Phase input 50/60 Hz	V +10% -10%	400	400	400	400		
Input Power @ 12 Max	kVA	13	17,8	17	23,7		
Delayed Fuse (I eff)	A	20	25	20	25		
Power Factor / $\cos \phi$		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	Ømm	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 60974-5 • 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	1	CON 32 COOL AIR	5	CON 401 P COOI AIR	ULSE	CONV 405 PI COOL AIR	ULSE
	POWER SOURCES								
004640	Power Source CONVEX 321 400V (4 rolls for wire Ø 0,8÷1,0 mm)	•	≋						
004645	Power Source CONVEX 401400V (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 PULSE400V (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	Power source CONVEX 321 PREMIUM 400V (4 rolls for wire Ø 0,8÷1,0 mm)								
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	Power source CONVEX 405 PULSE PREMIUM 400V (4 rolls for wire Ø 1,0÷1,2 mm)			1		1			
	PREMIUM MODELS include already install vision.COLD - vision.ULTRASPEED and ECP	1				1			
	ALUMINIUM ROLL KIT			1		1			
030866	Aluminium Kit of Single grooved TWIN rolls (Ø: 1,0)	1		1		 			
030867	Aluminium Kit of Single grooved TWIN rolls (Ø: 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%		≈		≈		≈		<u> </u>
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		≋		≈		≋		≋
	TROLLEY							/	
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 water cooled version with torch		≋						
	CONVEX 325 PULSE Suggested air cooled version with torch			•					
	CONVEX 325 PULSE Suggested water cooled version with torch				≋				
	CONVEX 401 Suggested air cooled version with torch					•			
	CONVEX 401 Suggested water cooled version with torch						≋		
	CONVEX 405 PULSE Suggested air cooled version with torch							•	
	CONVEX 405 PULSE Suggested water cooled version with torch								≋
-									



DOGMA / DOGMA PULSE

THE FIRST - THE GAME CHANGER





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. NEW



- Innovative, unique, unparalleled
- Exceptional welding quality
- New level of Ergonomics





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)



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"
- 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

J01 SYNERGIC 1		0.5 s	122A
J01 DOUBLE PULSE		0.3 s	155A
	G3 SI-1 16-20% CO2 - 0.8mm		⊥±2τ
J07 MANUAL		0.0 s	12.0 m/min

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



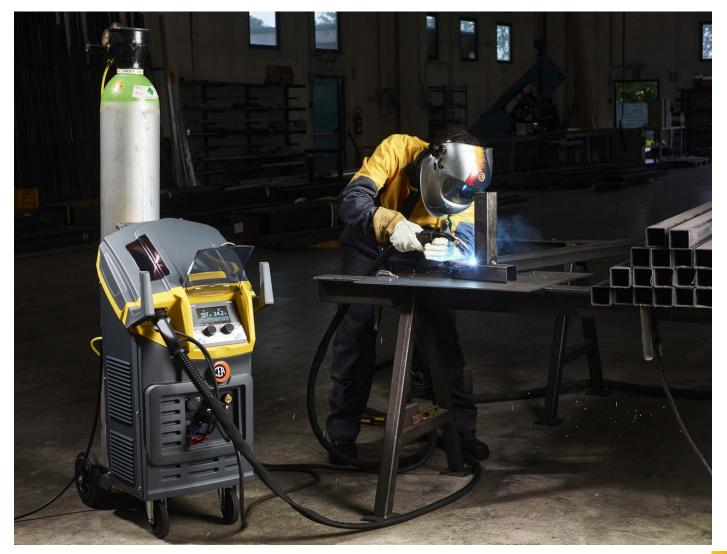
vision.COLD for low heat transfer MIG/MAG welding



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



TECHNICAL DATA			DOGMA		DOGMA PULSE				
		272 XV / 272 W XV	322 XV / 322 W XV	402 XV / 402 W XV	276 XV / 276 W XV	326 XV / 326 W XV	406 XV / 406 W XV		
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)	А	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	А	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 60974	4-5 • EN 60974-10• S				
Protection Class	IP	23 S	23 S	23 S	23 S	23 S	23 S		
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

		DOGMA 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)	•							
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 integreted as a standard in								
	all DOGMA 272 - 322 - 402								
	ALUMINIUM KIT								
030866	Aluminium Kit of Single grooved TWIN rolls (Ø: 1,0)		1						
030867	Aluminium Kit of Single grooved TWIN rolls (0: 1,2)		1						
	MIG MAG WELDING TORCHES		1						
020458	CEA Torch CX 251/3 3m - wire: Ø 0,6÷1.0 CO2 260A @60% / Mix 200A @60%	٠							
020465	CEA Torch CX 353/4 4m - wire: Ø 0,8÷1.2 CO2 340A @60% / Mix 290A @60%			•		٠			
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%						≋		
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	٠	≋						
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						≋		

		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)								
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)								
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 altready install - vision.COLD, vision.ULTRASPEED process and ECP								
030866	Aluminium Kit of Single grooved TWIN rolls (Ø: 1,0)								
030867	Aluminium Kit of Single grooved TWIN rolls (Ø: 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%	•	\leq		\leq		\leq		
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 C02 300A @100% / Mix 250A @100%		≈	\leq	≋	\leq			
020479	CEA Torch CXH 402/4 4m - wire: Ø 0,8÷1.6 water cooled CO2 500A @100% / Mix 450A @100%			\leq		\leq	≋		
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8÷1,2 water cooled (to be ordered w. 031113)			\leq		\leq			
031113	Push Pull Synchronizer PC Board KIT 24/42 V (to be ordered with Push Pull torch)			\sim		\geq			
	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	٠	≋						
239603	50 mm ² / 4 m Ground cable with clamp			•	≋	•	≋		
	GAS REDUCERS								
020916	Reducer with flowmeter and 1 manometer	•	≋	٠	≋	•	≋		
	OTHER OPTION[S]								
236590	Metallic spool adaptor								
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						≋		



MAXIi

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. NEW



- 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



 $\ensuremath{\text{DOUBLE GROOVE ROLLS}}$ of large diameter replaceable without any tool

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 Ø 300 mm.



FSC - Fast Start Control

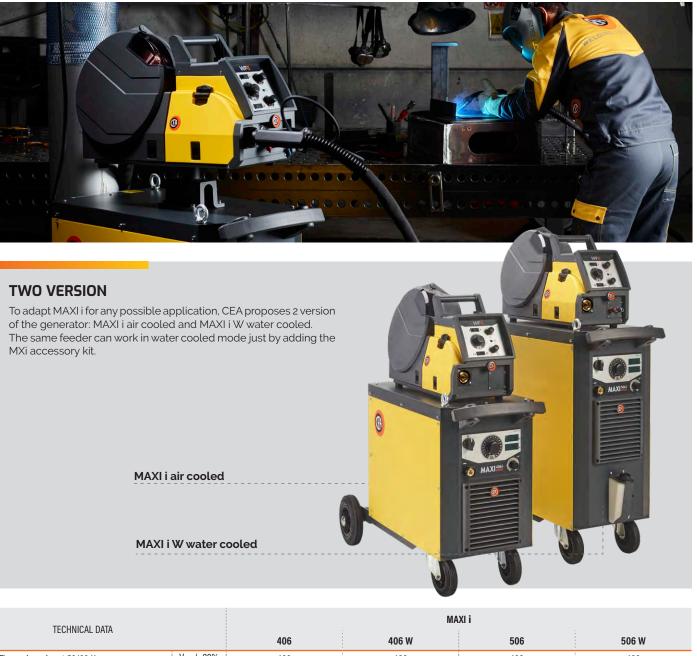
It is the innovative arc striking control that reduces drastically the ignition time. By this new technology it is possible to have a quick and perfect ignition at every start.

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

INTERCHANGEABLE WITH OLD FEEDER

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.



			1		
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 $oldsymbol{\phi}$		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 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	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

		MAXI i	MAXI i	MAXI i	MAXI i
CODE	DESCRIPTION	400	400 W	500	500 W
		AIR	WATER	AIR	WATER
	POWER SOURCES				
006170	Power source MAXI 406 i 400 V 3 phase	•			
006175	Power source MAXI 406 i W 400 V 3 phase		≋		
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 (Ø: 1,0 / 1,2)	•	≋	•	≋
030635	Closed Wire Feeder WF 5 with Euro connect. 4 rolls (Ø: 1,0 / 1,2)				
031009	Accessories type: "MXi" to connect water cooled interconnecting cable to the 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%	٠		٠	
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 - CO2 500A @100% / Mix 450A @100%		≋		≋
	For other torches see mig/mag accessories				
	GROUND CABLES				
239603	50 mm ² / 4 m Ground cable with clamp	٠	≋	٠	≋
	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	٠	1		
	MAXI i 400 W Suggested water cooled version with torch		≋		
	MAXI i 500 Suggested air cooled version with torch			٠	
	MAXI i 500 W Suggested water cooled version with torch		1		≋



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 that any pre-selected synergic programs chXose the parameters on your behalf.

MAXIQ also allow to weld with the HYBRID SYNERGIC^R mode which always detect the best feed back 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

- Two MIG/MAG welding modes : MANUAL and HYBRID SYNERGIC $^{\scriptscriptstyle \rm R}$
- All parameters 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
- "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

4 ROLLS of large diameter

DOUBLE GROOVE ROLLS replaceable without any tool

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.

SPECIAL 4 STROKE

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 spotwelding 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.



TECHNICAL DATA		MA	XIQ	MAXIQ			
I ECHINICAL 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 ϕ		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		

0005		AXIQ	MAXIQ	MAXIQ	MAXIQ
CODE		400	400 W	500	500 W
		AIR	WATER	AIR	WATER
POWER S		-			
	urce MAXIQ 400 400 V	•			
	urce MAXIQ 400 W 400 V Water cooled		≋		
	urce MAXIQ 500 400 V			•	
	urce MAXIQ 500 W 400 V Water cooled INECTING 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		~	\sim	~
010846 10 m	Water cooled Interconnecting cable Power source-Wire feeder				
WIRE FEE	· · · · · · · · · · · · · · · · · · ·				
	der MF 4 Hybrid Synergic [®] 4 rolls (Ø 1,0 / 1,2) Air cooled version	•		•	
	der MF 4 W Hybrid Synergic ^R 4 rolls (Ø 1,0 / 1,2) Water cooled version		~ ≈	/	≋
	ndard wheels kit for MF feeder			/	
	ra-large wheels kit for MF feeder				
	nging Kit for MF4 / MF4W				
ALUMINIL					
	m Kit of double grooved TWIN rolls (Ø 0,8/1,0) and gears kit for Al wires				
	m Kit of double grooved TWIN rolls (Ø 1,0/1,2) and gears kit for Al wires				
030899 Aluminiu	m Kit of double grooved TWIN rolls (Ø 1,2/1,6) and gears kit for Al wires				
MIG MAG	WELDING TORCHES				
020466 CEA Torch	I CX 353/4 4 m - wire Ø 0.8÷1.2 - CO2 340A @60% / Mix 290A @60%	•			
020471 CEA Torch	I CX 451/4 4m - wire: Ø 0,8÷1.6 - CO2 400A @60% / Mix 300A @60%			٠	
020472 CEA Torch	I CXH 302/4 4m - wire: Ø 0,8÷1.2 water cooled - CO2 300A @100% / Mix 250A @100%		~		
020479 CEA Torch	I 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	Syncronizer 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 Ground cable with clamp			۲	≋
GAS REDU	JCERS				
020916 Reducer	with flowmeter and 1 manometer	•	≋	•	≋
OTHER OF	PTION[S]				
	00 cooling liquid - 5 l Tank		≋		≋
	mote control with 5 m cable				
	pool adaptor				
MAXIQ 40		•			
MAXIQ 40			≋		
MAXIQ 50				•	
MAXIQ 50	00 W Suggested water cooled version with torch				≋



Q-YARD THE MULTIPROCESS YARD MASTER

HYBRID



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 optimised for yard industry: easy to stack on top of each other
- Two MIG/MAG welding modes: MANUAL and HYBRID SYNERGIC $^{\rm R}$
- 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

DIGITAL CONTROL of all parameters is located directly on the **MF4 YARD** (air cooled) and **MF4W YARD/MINI MF4W YARD** (water cooled).

GAS FLOWMETER standard equiped

PROFESSIONAL WIRE FEEDING mechanism with 4 rolls of large diameter for a precise and constant wire driving

DOUBLE GROOVE rolls replaceable without any tool

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.

SPECIAL 4 STROKE

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 spotwelding 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.



TECHNICAL DATA		Q-YARD	
I LOINICAL DAIA		450	
Three phase input 50/60 Hz	V +/- 20%	400	
Input Power @ I ² Max	kVA	22	
Delayed Fuse (I eff)	A	32	
Power Factor / cos ϕ		0,84 / 0,99	
Efficiency Degree		0,86	
Open circuit voltage	V	62	
Current range	A	10 - 450	
Duty avala at (40%0)	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 S	
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		
0100	POWER SOURCE				
6160	Power Source Q-YARD 450 400 V	•	≋		
	STANDARD MODELS include Programs for Fe - CrNi - AI and TIG / MMA functions				
	INTERCONNECTING CABLES				
0866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	•			
0867	5 m Air cooled Interconnecting cable Power source-Wire feeder				
0868	10 m Air cooled Interconnecting cable Power source-Wire feeder				
0871	20 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD				
0869	30 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD				
0872	40 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD				
0839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋		
0842	5 m Water cooled Interconnecting cable Power source-Wire feeder				
0846	10 m Water cooled Interconnecting cable Power source-Wire feeder				
0854	20 m / 70 mm ² Water cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD				
0876	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				
80731	Wire Feeder MF 4 yard with A/V and Flowmeter - 4 rolls (0:1,0 / 1,2) Air cooled	•			
30736	Wire Feeder MF 4 W yard with A/V and Flowmeter - 4 rolls (0:1,0 / 1,2) Water cooled		≋		
00034	Adaptor socket for MMA directly from the wire feeder				
81116	WK 4 standard wheels kit for MF 4, MF4 yard and QF 7 W PRO DRIVE feeder				
31007	WK 2 extra-large wheel kit				
81117	HK1 Hanging Kit for MF4 / MF4 yard				
	YARD WIRE FEEDERS				
80727	Wire Feeder Mini MF 4 yard with A/V and Flowmeter 4 rolls (0: 1,0 / 1,2) Air cooled				
80728	Wire Feeder Mini MF 4 W yard with A/V and Flowmeter 4 rolls (0: 1,0 / 1,2) Water cooled				
	ALUMINIUM KIT				
30895	Aluminium Kit of double grooved TWIN rolls (Ø: 0,8/1,0) and gears kit for Al wires				
30897	Aluminium Kit of double grooved TWIN rolls (0: 1,0/1,2) and gears kit for Al wires				
30899	Aluminium Kit of double grooved TWIN rolls (0: 1,2/1,6) and gears kit for Al wires				
	WATER COOLING				
32098	Water cooling equipment HR 32 400 V		≋		
32107	Water cooling equipment HR 42-LC 400 V reinforced pump - 4,5 bar - for connection lenght over 20 m				
31172	Adaptor support plate for Q-YARD with water coolers HR 32 / HR42-LC		≋		
)2275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		
	TROLLEY				
31008	WK 3 extra-large wheels kit for Q-YARD (without cylinder holder)	•			
34914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)		≋		
34928	Trolley CT 75 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)				
	MIG MAG WELDING TORCHES				
20471	CEA Torch CX 451/4 4 m wire Ø 0.8÷1.6 CO2 400A @60% / Mix 300A @60%	•			
20479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled C02 500A @100% / Mix 450A @100%		≋		
20488	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)				
31113	Push Pull Syncronizer PC Board KIT 24 / 42 V for MF4 and QF7 PR0 DRIVE (to be ordered with the Push pull torch)				
	For other torches see mig/mag torches				
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE				
20568	Torch RTX 26.4 4 m - 180 A 35%				
	GROUND CABLES				
9607	70 mm ² / 4 m Ground cable with clamp	•	≋		
	GAS REDUCERS				
20916	Reducer with flowmeter and 1 manometer	•	≋		
	OPTIONAL		~		
6590	Metallic spool adaptor				
6234	RC 178 remote control with 5 m cable				
60234 60262	4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections brush/hammer - shield with lens				
0202	Q-YARD 450 - Suggested air cooled version with torch	•			
	a mine nov ouggested all cooled version with toron	•			



QUBOX / QUBOX PULSE BACK TO WELD





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. Technologwically 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 MIG.

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

STRONG INDUSTRIAL CASE made to last
PROFESSIONAL WIRE FEEDING mechanism with 4 rolls of large diameter for a precise and constant wire driving
DOUBLE GROOVE ROLLS replaceable without any tool
LODGING FOR WIRE SPOOLS up to Ø 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 Ø 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 spotwelding and pre-assembly of components.

SPECIAL 4 STROKE

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 spotwelding 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 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



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



vision.ULTRASPEED For high speed welding POWER



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



and thick thickness







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)	А	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	А	10 - 400	10 - 400	10 - 500	10 - 330	10 - 330	10 - 400	10 - 500
Duty avala 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 6	0974-10 . 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

				QUBOX			QUBOX PULSE			
CODE	DESCRIPTION	400	400W	500W	335	335W	405W	505W		
		AIR	WATER	WATER	AIR	WATER	WATER	WATER		
	POWER SOURCES									
004730	Power Source QUBOX 400 400 V	•								
004740	Power Source QUBOX 400 W 400 V Water cooled		≋							
004745	Power Source QUBOX 500 W 400 V Water cooled			≋						
004766 004771	Power Source QUBOX 335 PULSE 400 V Power Source QUBOX 335 W PULSE 400 V Water cooled 400 V				•	~				
004770	Power Source QUBOX 355 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 004766PR	Power Source QUBOX 500 W 400 V PREMIUM Power Source QUBOX 335 PULSE 400 V PREMIUM									
004771PR	Power Source QUBOX 335 POLSE 400 V PREMIUM									
004770PR	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 (*) ECP Extra Curves Package to most chaorial application (*)									
050050 NOTE:	ECP-Extra Curves Package to meet special application (*) (*) TO BE INSTALLED ONLY IN CEA BEFORE DELIVERING THE EQUIPMENT									
NULL	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		\geq					\geq		
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder		\geq			\geq	\geq	\geq		
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋	\leq	≋	≋	≋		
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder				\leq					
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder WIRE FEEDERS									
030726	Wire Feeder QF 7 W PRO DRIVE w.4 rolls (Ø: 1,0/1,2) Water cooled	•	≋	≋	•	≋	≋	≋		
031116	WK 4 standard wheels kit for MF 4, MF4 yard and QF 7 W PR0 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 (Ø: 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 .8÷1.2 CO2 340A @60% / Mix 290A @60%		\leq	\leq	•	\leq	\leq	\leq		
020471	CEA Torch CX 451/4 4 m wire Ø 0.8÷1.6 CO2 400A @60% / Mix 300A @60% CO2 400A @100% / Mix 300A @60% Mix 300A @60% Mix 300A @60%	•	\leq					\leq		
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled CO2 300A @100% / Mix 250A @100% CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled CO2 500A @100% / Mix 450A @100%		≋	≋	>	≋	≋	≋		
020475	Push Pull Torch PP 401 D 8 m 24 V - wire \emptyset 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 Syncronizer 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									
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE									
020568	Torch RTX 26.4 4 m - 180 A 35% 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	•	≋	≋	٠	≋	≋	≋		
	OTHER OPTION[S]									
402275A	Cea CL-1100 cooling liquid - 5 Tank		≋	≋		≋	≋	≋		
353473	Dust Air Filter (package of 4 pcs)									
236590 236234	Metallic spool adaptor 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	٠								
	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	1								
						-				
	QUBOX 335 W PULSE Suggested water cooled version with torch QUBOX 405 W PULSE Suggested water cooled version with torch					*	≈			



DIGITECH VP2

THE WELDING EDGE



DIGITECH VP2 (vision.PULSE2) are based on the last generation microprocessor with vision.ARC2 arc control software which allows to obtain a far superior premium quality welding performance unthinkable till this day.

DIGITECH VP2 are characterized by a digital interface with colour display with a synergic digital control to automatically determine the best welding parameters, based on the used type of material, wire diameter and 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 and represent the best solution in any industrial field requiring high precision and repeatability of the achieved results.

DIGITECH 3200 VP2 is designed with a built-in feeder.



- Top welding performance
- LCD Panel Interface
- Complete connectivity
- Special MIG and Pulse process possibility





DIGITECH VP2 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 torch
- LAN connectivity to the network via Ethernet port or WIFI (Optional)
- Data storing and data printing ability (Optional)

WIRE FEEDER HT5 / HT6 PRO DRIVE

PROFESSIONAL WIRE FEEDING mechanism with 4 rolls of large diameter for a precise and constant wire driving

DOUBLE GROOVE ROLLS replaceable without any tool

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







HT6 PRO DRIVE





DOUBLE FEEDER

DIGITECH VP2 in the version with double HT5 feeder represent the ideal solution whenever a greater flexibility is needed in all applications using two different types of material, wire or gas.



DIGITECH VP2 SYNERGIC CONTROL

DIGITECH VP2 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 VP2 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 HA 10011 MATER Mig Pulse Mig dual pulse Mig/Mag synergic Mig/Mag Manual Vision.cold Vision.pipe Vision.power 1011 Fe G3 SI-1 0.8 Ar 16-20% CO2 1012 Fe G3 SI-1 1.0 Ar 16-20% CO2 IN PULSE L013 Fe G3 SI-1 Ar 16-20% CO2 1.6 Ar 16-20% CO2 0.9 Ar 16-20% CO2 1014 Fe G3 SI-1 1015 Fe G3 SI-1 In PULSE †↓ 2T 3/90 /m PULSE 1 ↓ 2T 1011 Fe G3 SI-1 Ø 0.8 Ar 16-20% CO2 1013 Fe G3 SI-1 Ø 1.2 Ar 16-20% CO2

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

In PULSE 11 4T

1013 Fe G3 SI-1 Ø 1.2 Ar 16-20% CO2

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Æ

WELDING MODE

MOL THO

TWO STROKE (2T)

FOUR STROKE (41 CRATER 2T CRATER 4T SPOT WELDING STITCH WELDING

Standard equipped with analogic-digital I/O, DIGITECH VP2 can be easily integrated into automated welding equipment without any expensive and sophisticated external interfaces usually necessarily supplied for robotics.

DIGITECH 5000 VP2

21

WELDING SET UP

DRE GAS

100

FX

114T

PULSE 1 2T

Fe G3 SI-1 Ø 0.8 Ar 16-

Ð

n1 s

In PULSE 11 4T DEFAULT

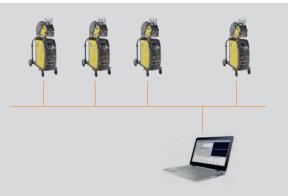
1013 Fe G3 SI-1 Ø 1.2 Ar 16-20% CO2

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 VP2 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 VP2 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.

RI-A1



ANALOGIC/DIGITAL INTERFACE





SPECIAL PROCESSES

vision.ARC2 is the software platform available on DIGITECH VP2, which enables to weld with the following optional special processes:

vision.ULTRASPEED

For high speed welding

MIG MAG



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



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



الالوكار المواوي

ULTRASPEED

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



PULSE

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



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

COM 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			DIGITE	CH VP2	
		3200	3300	4000	5000
Three Phase input 50/60 Hz	V +10% -10%	400	400	400	400
Input Power @ I ² Max	kVA	19	19,6	25,5	31,2
Delayed Fuse (I eff)	A	20	25	32	40
Power Factor / $\cos \varphi$		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	A	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 60974-5 • 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			
Weight	Kg	41	35	40	44

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					
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					
	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					
	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 l Tank		≋			
	TROLLEYS					
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)	•	≋			
234928	Trolley CT 75 with 4 rolls for power source, cooling equippment 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					
460292	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 3300 VP2

CODE	DESCRIPTION			
	POWER SOURCES			
004705	Power Source DIGITECH 3300 VP2 400 V	•	≋	
	PREMIUM VERSIONS - POWER SOURCE FITTED WITH SOFTWARE			
004705PR	Power source DIGITECH 3300 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket			
	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			
	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 (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		-	
	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			
030715	Wire Feeder HT 5 with Euro Connection 4 rolls (Ø 1.0 ÷1.2)	•	≋	
030716	Wire Feeder HT 6 PRO DRIVE with Euro Connection 4 rolls (Ø 1.0÷1.2)			
030872	WK1 standard wheels kit for HT 5 feeder			
031116	WK 4 standard wheels kit for HT 6 feeder			
031007	WK 2 extra-large wheels kit			
031117	HK 1 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 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)			
031113	Push Pull Syncronizer 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 l Tank		≋	
	TROLLEYS			
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)	•	≋	
234928	Trolley CT 75 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)			
	GROUND CABLES			
239603	50 mm ² / 4 m Ground cable with clamp	•	≋	
200000	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			
460262	$4+3 \text{ m} 50 \text{ mm}^2$ 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 4000/5000 VP2

CODE	DESCRIPTION		CH VP2 000 WATER	50	CH VP2 000 WATER
	POWER SOURCES		- TRACEN		THE L
004710	Power Source DIGITECH 4000 VP2 400 V	•	≋		
004715	Power Source DIGITECH 5000 VP2 400 V			٠	≋
	SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE				
004710PR	Power source DIGITECH 4000 VP2 [PREMIUM] 400 V with vision.FULL PACKAGE and Ethernet socket				
004715PR	Power source DIGITECH 5000 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket				
001110111	DIGITECH VP2's PREMIUM READY FOR INDUSTRY 4.0 - PREPARED To be connected to OR WIFI READER and/or to WIFI LAN				
004712PR	Power source DIGITECH 4000 VP2 PREMIUM 4.0 READY 400V vision.FULL PACKAGE & Ethernet & USB socket				
004718PR	Power source DIGITECH 5000 VP2 PREMIUM 4.0 READY 400V Vision. FULL PACKAGE & Ethernet & USB socket				
004710111	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				
	SFP - vision.FULL-PACKAGE complete package with Special MIG Process Package (SM1) and Special PULSE Process: vision.				
050004	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				
000715				-	
030715	Wire Feeder HT 5 with Euro Connection 4 rolls (Ø 1.0 ÷1.2)	•	≈	•	≋
030716	Wire Feeder HT 6 PRO DRIVE with Euro Connection 4 rolls (Ø 1.0 ÷1.2)				
030872	WK1 standard wheels kit for HT 5 feeder				
031116	WK 4 standard wheels kit for HT 6 PRO DRIVE feeder				
031007	WK 2 extra-large wheels kit				
031117	HK 1 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				
020471	CEA Torch CX 451/4 4 m wire 0 0.8÷1.6 C02 400A @60% / Mix 300A @60%	٠			
020479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled CO2 500A @100% / Mix 450A @100%		≋	\leq	≋
020488	Push Pull Torch PP 401 D 8 m 24 V -wire Ø 0,8÷1,2 water cooled (to be ordered w. 031107)			\leq	
031107	Push Pull Synchronizer PC Board KIT for QF4 and HT5 (to be ordered with the Push Pull torch)				
031113	Push Pull Syncronizer 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 l Tank		~ ≈		≋
	TROLLEYS				
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)	•	≈	٠	≋
234928	Trolley CT 75 with 4 rolls for power source, cooling equippment and cylinder (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]			-	
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	$4+3 \text{ m} 50 \text{ mm}^2$ cables with electrodeholder pincer, ground clamp and 50 mm^2 safety connections brush/hammer - shield with lens		-		
+UUZUZ					
	DIGITECH 4000 VP2 Suggested air cooled version with torch	•			
	DICITECH 4000 VD2 Suggested water social water is with teach				
	DIGITECH 4000 VP2 Suggested water cooled version with torch DIGITECH 5000 VP2 Suggested air cooled version with torch		≈	•	

DIGITECH DOUBLE FEEDER VP2

CODE	DESCRIPTION		3300		AIR WATER		CH VP2 000 WATER
	POWER SOURCES					AIR	
004705	Power Source DIGITECH 3300 VP2 400 V	•	≋				
004710	Power Source DIGITECH 4000 VP2 400 V			٠	≋		
004715	Power Source DIGITECH 5000 VP2 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						
004710PR	Power source DIGITECH 4000 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004715PR	Power source DIGITECH 5000 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
050000	SOFTWARE FOR SPECIAL MIG/MAG PROCESS					+	
050002 050003	SM1 - SPECIAL MIG Process Package: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP 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.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						
010846	10 m Air / Water cooled Interconnecting cable Power source-Wire feeder WIRE FEEDERS						
020715			~		~		
030715	Wire Feeder HT 5 with Euro Connection 4 rolls (Ø 1.0 ÷1.2)	•	≋	•	≈	•	≋
030715	Wire Feeder HT 5 with Euro Connection 4 rolls (Ø 1.0 ÷1.2)	•	≋	•	_ ≈	•	≈
030873	Support and Connection Kit for DOUBLE HT 5 wire feeder system	•	≋	•	_ ≈	•	_ ≈
000005							
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					+	
000400	MIG MAG WELDING TORCHES						
020466	CEA Torch CX 353/4 4 m wire 0 8.1.2 CO2 340A @60% Mix 290A @6	•	<	-	\leq	-	
020471	CEA Torch CX 451/4 4 m wire 0 0.8÷1.6 CO2 400A @60% Mix 300A @60% CEA Torch CX 451/4 4 m wire 0 0.8÷1.6 CO2 400A @60% Mix 300A @60%		\sim				\sim
020472	CEA Torch CXH 302/4 4 m wire Ø 0.8÷1.2 water cooled C02 300A @100% / Mix 250A @100%		≋	\leq			
020479	CEA Torch CXH 402/4 4 m wire Ø 0.8÷1.6 water cooled C02 500A @100% / Mix 450A @100%			\leq	≋	\leq	≋
020488	Push Pull Torch PP 401 D 8 m 24 V -wire Ø 0,8÷1,2 water cooled (to be ordered w. 031107)			\leq		\leq	
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		≋		≋		≈
402275A	Cea CL-1100 cooling liquid - 5 l Tank TROLLEYS		*		*		*
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)	•	≋	•	≋	•	≋
234928	Trolley CT 75 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)		1		1		
234923	Trolley CT 72 Large for power source and 2 gas cylinder and autotrasformer 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						
	RC 178 remote control with 5 m cable						
236234							
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase						
	DIGITECH 3300 VP2 with Double Feeder HT 5 - Suggested air cooled version with torch	•					
	DIGITEGU 2000 MD0 with Davida Fander UF 5 0 to		_ ≈	1	1	1	1
	DIGITECH 3300 VP2 with Double Feeder HT 5 - Suggested water cooled version with torch		~			<u> </u>	
	DIGITECH 4000 VP2 with Double Feeder HT 5 - Suggested air cooled version with torch		~	•			
			~	•	*	•	



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



60



TECHNICAL DATA		SMARTMIG		COI	ЛРАСТ	
		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%)	A	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
Adjustament 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
Durba surple at (40%)	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 609	74-1 • EN 60974-5 • EN 60974	4-10 · 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	DESCRIPTION	SMARTMIG					PACT
CODE	DESCRIPTION	T 25 AIR	270 AIR	310 AIR	364 AIR	4 AIR	10 WATER
	POWER SOURCES WITH TORCH	Ain	Ain	Ain	Ain	Ain	WAILN
	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 $0.8 \div 1.0$ 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 $0.8 \div 1.0$ mm Ø wires						
007200	Power source COMPACT 270 230/400V (2 rolls for wire Ø 0.8÷1.0 mm)		٠				
007210	Power source COMPACT 310 230/400V (2 rolls for wire Ø 0.8÷1.0 mm)			٠			
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%		٠	٠	•		
020466	CEA Torch CX 353/4 4 m wire Ø 0.8÷1.2 CO2 340A @60% / Mix 290A @60%					٠	
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						
239618	25 mm ² / 4 m Ground cable with clamp		٠				
239601	35 mm ² / 4 m Ground cable with clamp			٠	٠		
239603	50 mm ² / 4 m Ground cable with clamp					•	≋
	GAS REDUCERS						
020855	Reducer with 2 manometers	•	٠	٠	•	٠	≋
	OPTIONAL						
236590	Metallic spool adaptor						
	SMARTMIG T 25 Suggested air cooled version with torch	•					
	COMPACT 270 Suggested air cooled version with torch						
	COMPACT 310 Suggested air cooled version with torch			•			
	COMPACT 364 Suggested air cooled version with torch				•		
	COMPACT 410 Suggested air cooled version with torch					٠	
	COMPACT 410 Suggested water cooled version with torch						≋



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 manoeuvrability
- 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		M	AXI
		405	505
Three phase input 50/60 Hz	V	230/400	230/400
Input Power @ I ² Max	kVA	19	24,2
Delayed Fuse (l ² @ 60%)	А	35/20	40/25
Power Factor / $\cos \phi$		0,96	0,97
Efficiency Degree		0,77	0,78
Open circuit voltage	n circuit voltage V 20 - 44		19 - 51
Adjustament positions	N°	20	30
Current range	A	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 60974-1 • E	N 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





1 -0 **MAXI 505** CE

SWF feeders with robust suitcase, ideal IR 14 water cooling equipment for site jobs and harshest environments.

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





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 201 HF		RAINBOW	182 HF PRO	RAINBOW 202 HF PRO			
TECHNICAL DATA		TIG DC	MMA	TIG DC	ММА	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)	A	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	V	88	88	90	90	88	88		
Current range	A	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 1	35 x 300	390 x 13	35 x 300	390 x 135 x 300			
Weight	Kg	7,5		7,5		-	7,5		

PULSE MODE

(RAINBOW 182 HF pro - 202 HF pro)



SYN PULSE

SYN PULSE will synergially 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

"CYCLE" FUNCTION

(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.





RAINBOW FUNCTION		182 H	F PRO	201	HF	202 HF PR0			
		TIG	MMA	TIG DC	MMA	TIG	MMA		
Pre Gas		٠	1	•	1	٠			
Initial current		٠				٠			
Up Slope		٠							
Welding current		٠	٠	•	•	•	٠		
2nd welding current	"CYCLE"	٠				•			
Pulse cycle	"PULSE"	٠				•			
Down Slope		٠		٠		٠			
Final current		٠				•			
Post gas		٠		•		•			
Spot time		٠		٠		•			
Automatic Hot Start			٠		٠		٠		
Automatic Arc Force			٠		٠		٠		
Automatic Anti-sticking		1	٠		٠	- 	٠		

CODE	DESCRIPTION	RAINBOW 201 HF	rainbow 182 hf pro	Rainbow 202 hf pro
	POWER SOURCES			
004125	Power Source RAINBOW 201 HF 230 V	٠		
004115	Power Source RAINBOW 182 HF PRO 230 V		•	
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

99 JOB

VRD





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.

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MATRIX HF FUNCTION	MATRIX HF FUNCTION			MATRIX HF 2200 • 2600 • 3000 • 4200				
		TIG	MMA	TIG	MMA			
High Frequency striking		•		•				
"Lift" mode striking		٠		•				
Pre Gas		٠		٠				
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		٠		•				
Final current				•				
Post gas		•		•				
Spot time		٠		•				
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



FAST PULSE

SYN PULSE

FAST PULSE

SYN PULSE will synergially generate pulse frequency and base current

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



MATRIX 2200 HF

MATRIX 3000 HF

MATRIX 4200 HF

TECHNICAL DATA		MATRIX	2200 HF	MATRIX	2600 HF	MATRIX 300	00 / 3001 HF	MATRIX 4200 HF		
		TIG	ММА	TIG	ММА	TIG	ММА	TIG	MMA	
Single phase input 50/60 Hz	V +/- 20%	230			-	-			-	
Three phase input 50/60 Hz	V +/- 20%		-	400		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)	A	16	16	10	10	10	10	16	16	
Power Factor / cos ϕ		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	85		8	15	85		
Current range	A	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 6	60974-1 • EN 6097	4-3 • EN 60974-10	S			
Protection Class	IP	23	S	23	S	23	3 S	23	3 S	
Dimensions (L x W x H)	mm	465 x 18	35 x 390	495 x 185 x 390		495 x 185 x 390		560 x 220 x 425		
Weight	Kg	1	4	17	,5	17	7,5	2	5	



VT 101 trolley for lodging gas 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

ORDER INFORMATION

CODE	DESCRIPTION		TRIX 00 HF	MATRIX 2600 HF		MATRIX 3000 HF			TRIX 1 HF	1	TRIX 0 HF
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATE
	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					٠	≋				
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)	•			\square		\leq		\leq		\sim
020662	CEA Torch TXA 26.4 "UP/DOWN" 4 m 250 A 60% (DC)								\leq		
020672	CEA Torch TXH 18.4 4 m 320 A 100% (DC) water cooled		≋	\leq	≋	\leq	≋	\angle	≋	\leq	≋
020677	CEA Torch TXH 18.4 "UP/DOWN" 4 m 320 A 100% (DC) water cooled			\square		\leq		/		\leq	
	For torches with 8 m long cable see tig accessories										
	2 WHEELS TROLLEYS		-			1					
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										
032065	Water cooling equipment HR 22 230 V		≋								
032060	Water cooling equipment HR 23 400 V to be ordered with "VT" trolley line only				≋	\square	≋	\square	≋		≋
413463	Input cable Adapterto connect HR 23 with MATRIX 4200 HF		\sim								≋
402275A	Cea CL-1100 cooling liquid - 5 l Tanks		≋		≋	\square	≋	/	≋		≋
	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]										
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					1					
	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 versionwith 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										~ ≈

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			MATRIX 2600 HF		MATRIX 3000 HF		MATRIX 3001 HF		TRIX 0 HF
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
	4 WHEELS TROLLEY										
234931	Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder	•	≋	٠	≋	٠	≋	٠	≋		≋
	WATER COOLING FOR CT 401										
032065	Water cooling equipment HR 22 400 V		≋							\nearrow	\square
032060	Water cooling equipment HR 23 400 V				≈		≋		≈		\square
032098	Water cooling equipment HR 32 400 V										≋
402275A	Cea CL-1100 cooling liquid - 5 Tanks						1			\nearrow	
031166	Adaptor support plate for Matrix 4200 HF if used with CT 401 and HR 32									\nearrow	≋



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.



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 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



FAST

PULSE

SYN PULSE

FAST PULSE

SYN PULSE will synergially generate pulse frequency and base current

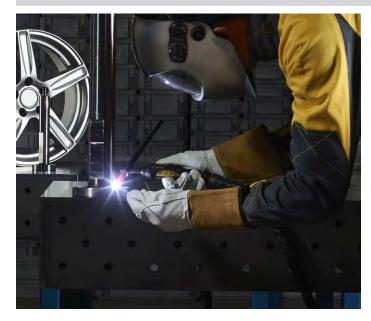
Adjust frequency from 0,5 Hz to 500 Hz



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		
		TIG	ММА	TIG	MMA		
Single phase input 50/60 Hz	V +/- 20%	23	30		-		
Three phase input 50/60 Hz	V +/- 20%		-	40	00		
Input Power @ I ² Max	kVA	5,2	6,0	8,5	8,5		
Delayed Fuse (I eff)	А	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	5	8	5		
Current range	A	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 60974-3 • EN 60974-10 S					
Protection Class	IP	23	3 S	23	S		
Dimensions (L x W x H)	mm	530 x 2	15 x 410	530 x 2	15 x 410		
Weight	Kg	1	8	2	0		

CODE DESCRIPTION 220 HF 300 HF 004507 Power source MATRIX X 220 HF 230V 1 Phase X Vision control # # 004507 Power source MATRIX X 300 HF 400V 3 Phase X Vision control # # 005502 CEA Torch TXA 254 4 m - 250 A 60% (DC) # # # 005602 CEA Torch TXA 254 4 m - 250 A 60% (DC) # # # 020662 CEA Torch TXA 254 4 m - 250 A 60% (DC) # # # 020662 CEA Torch TXA 254 4 m - 250 A 100% (DC) - water cooled # # # 020662 CEA Torch TXA 184 4 m - 250 A 100% (DC) - water cooled # # # 020670 CEA Torch TXH 184 4 m - 320 A 100% (DC) - water cooled # # # 020670 CEA Torch TXH 184 4 m - 320 A 100% (DC) - water cooled # # # 020767 CEA Torch TXH 184 4 m - 320 A 100% (DC) - water cooled # # # 020822 CEA Torch TXH 184 4 m - 320 A 100% (DC) - water cooled # # # 020717 CEA Torch TXH 184 4 m - 320 A 100% (DC) - water cooled # # # 021201 Water cooling equipment					RIX X	
POWER SOURCE Image: X Vision control 004500 Power source MATRIX X 20 HF 230V 1 Phase X Vision control 00500 Power source MATRIX X 300 HF 400V 3 Phase X Vision control 00500 Power source MATRIX X 300 HF 400V 3 Phase X Vision control 00500 CEA Torch XX 26.4 4 m - 250 A 60% (DC) Image: Ceanol	CODE	DESCRIPTION	220	HF	300	HF
004507 Power source MATRIX X 20 HF 230V 1 Phase X Vision control ● ≋ 004506 Power source MATRIX X 300 HF 400V 3 Phase X Vision control ● ® 100506 Power source MATRIX X 200 HF 200V 3 Phase X Vision control ● ® 1005062 CEA Torch TXA 26.4 4 m - 250 A 60% (DC) ● ● ● ® ® ® ® 0			AIR	WATER	AIR	WATER
004560 Power source MATRIX X 300 HF 400V 3 Phase X Vision control TIG TORCH						
TIG TORCH 020562 CEA Torch TXA 26.4 4 m - 250 A 60% (DC) ● 020626 CEA Torch TXA 26.4 4 m - 250 A 60% (DC) ● ● 020626 CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled m m 020607 CEA Torch Mini TXH 20.4 4 m - 320 A 100% (DC) - water cooled m m 020672 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled m m 020670 CEA Torch TXH 18.4 1 m - 320 A 100% (DC) - water cooled m m 020677 CEA Torch TXH 18.4 1 m - 320 A 100% (DC) - water cooled m m 020670 CEA Torch TXH 18.4 1 m - 320 A 100% (DC) - water cooled m m 234923 Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder m m m 234931 Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder m m m 032120 Vater cooling equipment HRX 20 230 V m m m 032120 Vater cooling equipment HRX 20 230 V m m m 032120 Vater cooling equipment HRX 20 </td <td>004507</td> <td></td> <td>•</td> <td>≋</td> <td></td> <td></td>	004507		•	≋		
020562 CEA Torch TXA 26.4 4 m - 250 A 60% (DC) 020562 CEA Torch TXA 26.4 "UP/DOWN" 4 m - 250 A 60% (DC) 02067 CEA Torch Min TXH 20.4 4 m - 250 A 100% (DC) - water cooled 020680 CEA Torch Min TXH 20.4 4 m - 250 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 020678 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 020767 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 02080 CEA torch TXH 20.4 6 m 2 02100 20 20 02100 20 20 032108 Vater cooling equipment HRX 30 400 V 20 032109 20 20 032109 20 20 032109 20 20 032115 Water cooling equipment HRX 30 400 V	004560	Power source MATRIX X 300 HF 400V 3 Phase X Vision control			٠	≋
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 - 320 A 100% (DC) - water cooled 020672 CEA Torch Mini TXH 18.4 4 m - 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 767 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 77 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 78 Torlley VT 101 with 2 rolls for power source, cooling equipment and cylinder S 78 S S S 78 CH 100 cooling liquid - 51 Tank S S 78 GAS REDUCERS S S S		TIG TORCH				
020667 CEA Torch Mini TXH 20.4 4 m · 250 A 100% (DC) - water cooled 0206680 CEA Torch Mini TXH 20.4 "UP/DOWN" 4 m · 250 A 100% (DC) - water cooled	020562	CEA Torch TXA 26.4 4 m - 250 A 60% (DC)	•		۲	
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 4 m - 320 A 100% (DC) - water cooled For torches with 8 m long cable set ig accessories	020662	CEA Torch TXA 26.4 "UP/DOWN" 4 m - 250 A 60% (DC)				
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 For torches with 8 m long cable see tig accessories 7 TRBULEY 8 8 234929 Toolley UT 101 with 2 rolls for power source, cooling equipment and cylinder 8 8 234923 Trolley UT 101 with 4 rolls for power source, cooling equipment and cylinder 8 8 03210 Water cooling equipment HRX 20 230 V 8 8 032102 Water cooling equipment HRX 30 400 V 8 8 032105 Water cooling liquid - 51 Tank 8 8 8 8 032105 Water cooling liquid - 51 Tank 8	020667	CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled		≋		≋
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	020680	CEA Torch Mini TXH 20.4 "UP/DOWN" 4 m - 250 A 100% (DC) - water cooled				
For torches with 8 m long cable see tig accessories ITOLLEY 234929 Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder 第 17 and 100 VT 101 with 4 rolls for power source, cooling equipment and cylinder 17 and 17 and 18 and 19 and 10 V 18 and 11 and 11 and 10 V 19 and 10 V 10 and 10 V	020672	CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled				
TROLLEY ■<	020677	CEA Torch TXH 18.4 "UP/DOWN" 4 m - 320 A 100% (DC) - water cooled				
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 □ □ □ 032102 Water cooling equipment HRX 20 230 V ∞ ∞ ∞ 032115 Water cooling equipment HRX 30 400 V ∞ ∞ ∞ 402275A Cea CL-1100 cooling liquid - 51 Tank ∞ ∞ ∞ ∞ GROUND CABLES □ ∞ <t< td=""><td></td><td>For torches with 8 m long cable see tig accessories</td><td></td><td></td><td></td><td></td></t<>		For torches with 8 m long cable see tig accessories				
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-100 cooling liquid - 5 I Tank © GROUND CABLES © © 239601 35 mm² / 4 m Ground cable with clamp © © GAS REDUCERS © © © 020916 Reducer with flowmeter and 1 manometer © © © 02118 TSAI TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V) S3485 OFXI OUST 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 460056 Ade per for simultaneous connection with torch MATRIX X 220 HF Suggested air cooled version with torch © MATRIX X 300 HF Suggested air cooled version with torch </td <td></td> <td>TROLLEY</td> <td></td> <td></td> <td></td> <td></td>		TROLLEY				
WATER COOLING Image: Constant of the constect of the constant of the constant of the constant o	234929	Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder	•	≋	٠	≋
032120 Water cooling equipment HRX 20 230 V ≈ 032115 Water cooling equipment HRX 30 400 V ≈ 402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ ≈ GROUND CABLES ≈ ≈ ≈ 239601 35 mm² / 4 m Ground cable with clamp ● ≈ ∞ GAS REDUCERS ∞ ≈ 020916 Reducer with flowmeter and 1 manometer ● ≈ ● ≈ 020916 Reducer with flowmeter and 1 manometer ● ≈ ∞ ≈ 020916 Reducer with flowmeter and 1 manometer ● ≈ ∞ ≈ 020916 Reducer with flowmeter and 1 manometer ● ≈ ∞ ≈ 020916 Reducer with flowmeter and 1 manometer 0 ∞ ∞ ∞ 031118 TSA1 TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V) 0 1 353485 DFX1 Dust Filter for MATRIX X 2 236243 CD 6/8 8 m remote control Mater control 0 1 4 4 4 4 <td>234931</td> <td>Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder</td> <td></td> <td></td> <td></td> <td></td>	234931	Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder				
032115 Water cooling equipment HRX 30 400 V ≈ ≈ 402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ ≈ GROUND CABLES = ≈ ∞ 239601 35 mm² / 4 m Ground cable with clamp • ≈ • ≈ GAS REDUCERS = = ∞ ∞ ∞ ∞ ∞ 020916 Reducer with flowmeter and 1 manometer • ∞ <t< td=""><td></td><td>WATER COOLING</td><td></td><td></td><td></td><td></td></t<>		WATER COOLING				
402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ ≈ ≈ GROUND CABLES 35 mm² / 4 m Ground cable with clamp • ≈ • ><	032120	Water cooling equipment HRX 20 230 V		≋		
GROUND CABLES ● ≈ ● ≥	032115	Water cooling equipment HRX 30 400 V				≋
239601 35 mm² / 4 m Ground cable with clamp ● ≋ ● ≋ GAS REDUCERS 0 2 0 1 020916 Reducer with flowmeter and 1 manometer ● ≋ ● ≋ ● ≋ 0 1 020916 Reducer with flowmeter and 1 manometer ● ≋ ● ≋ ● ≋ ● 1 </td <td>402275A</td> <td>Cea CL-1100 cooling liquid - 5 l Tank</td> <td></td> <td>≋</td> <td></td> <td>≋</td>	402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		≋
GAS REDUCERS ● ≈ ● ≥ > <					-	
O20916 Reducer with flowmeter and 1 manometer ● ≋ ● ≋ OPTIONAL <td>239601</td> <td>35 mm² / 4 m Ground cable with clamp</td> <td>•</td> <td>≋</td> <td>٠</td> <td>≋</td>	239601	35 mm ² / 4 m Ground cable with clamp	•	≋	٠	≋
OPTIONAL IIIS Simple Automation KIT - (Torch trigger - Arc 0n - Current Adj. 0-10V) 353485 DFX1 Dust Filter for MATRIX X 236243 CD 6/8 8 m remote control with geared down potentiometer 0 020919 PSR 7 5 m foot remote control 0 460056 Adapter for simultaneous connection of Torch and PSR 7 0 460055 A6 Connection kit for non-standard Torch 0 MATRIX X 220 HF Suggested air cooled version with torch 0 MATRIX X 200 HF Suggested water cooled version with torch ∞ MATRIX X 300 HF Suggested air cooled version with torch ●		GAS REDUCERS				
031118 TSA1 TIG Simple Automation KIT - (Torch trigger - Arc 0n - Current Adj. 0-10V) 353485 DFX1 Dust Filter for MATRIX X 236243 CD 6/8 8 m remote control with geared down potentiometer 0 020919 PSR 7 5 m foot remote control 0 460056 Adapter for simultaneous connection of Torch and PSR 7 0 460055 A6 Connection kit for non-standard Torch 0 MATRIX X 220 HF Suggested air cooled version with torch ● MATRIX X 200 HF Suggested water cooled version with torch ● MATRIX X 300 HF Suggested air cooled version with torch ●	020916	Reducer with flowmeter and 1 manometer	•	≋	٠	≋
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 460056 Adapter for non-standard Torch 460050 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		OPTIONAL				
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 460056 Adapter for non-standard Torch 460050 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	031118	TSA1 TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V)				
020919 PSR 7 5 m foot remote control	353485					
020919 PSR 7 5 m foot remote control	236243	CD 6/8 8 m remote control with geared down potentiometer				
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 ●	020919					
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 ●	460056	Adapter for simultaneous connection of Torch and PSR 7				
MATRIX X 220 HF Suggested water cooled version with torch ≈ MATRIX X 300 HF Suggested air cooled version with torch ●	460005	A6 Connection kit for non-standard Torch				
MATRIX X 220 HF Suggested water cooled version with torch ≈ MATRIX X 300 HF Suggested air cooled version with torch ●		MATRIX X 220 HF Suggested air cooled version with torch	•			
MATRIX X 300 HF Suggested air cooled version with torch				≋		
					•	
						≋



VT 101 trolley for lodging gas cylinder and water cooling equipment

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

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

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.

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



FAST

PULSE

SYN PULSE

FAST PULSE

SYN PULSE will synergially generate pulse frequency and base current

Adjust frequency from 0,5 Hz to 500 Hz



ULTRA FAST HIGH PULSE FREQUENCY IN DC

Adjust frequency up to 2000 Hz

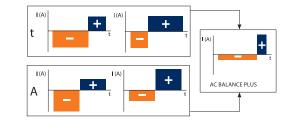
PULSE DC AND AC/DC MODE SLOW PULSE



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



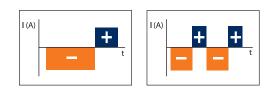
COLD

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%		-		_		-
Three phase input 50/60 Hz	V		-	400 -	-/- 20%	400 + 1	5% /- 20%	400 + 1	5% /- 20%
Input Power @ 12 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	5	8	15	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 6097		0974-1 • EN 60974	-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 185 x 390		660 x 290 x 515		660 x 290 x 515	
Weight	Kg	15	5,5	1	9	Ę	53 54		54

ORDER INFORMATION

CODE DESCRIPTION 2200 AC/DC 4100 AC/DC 5100 AC/DC POWER SOURCE AIR WATER WATER WATER WATER AIR						MA	TRIX			
POWER SOURCE 004511 Power source MATRIX 200 AC/DC 230V 1 Phase 004091 Power source MATRIX 3000 AC/DC 400V 3 Phase 004091 Power source MATRIX 5100 AC/DC 400V 3 Phase 004095 Power source MATRIX 5100 AC/DC 400V 3 Phase 004095 Power source MATRIX 5100 AC/DC 400V 3 Phase 004095 Power source MATRIX 5100 AC/DC 400V 3 Phase 002052 CEA Torch TXA 26.4 4 m 250 A 60% (DC) 020562 CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled 02067 CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled 020667 CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled 020667 CEA Torch TXH 18.4 4 m 220 A 100% (DC) - water cooled 020667 CEA Torch TXH 18.4 4 m 220 A 100% (DC) - water cooled 234929 Tolley VT 101 for power source, cooling equipment and cylinder 28 28 234929 Tolley CT 30 with 4 rolls for power source, cooling equipment and cylinder 28 28 234920 Tolley CT 30 with 4 rolls for power source, cooling equipment and cylinder 28 28<	CODE	DESCRIPTION	2200	AC/DC	3000	AC/DC	4100	AC/DC	5100	AC/DC
004511 Power source MATRIX 2200 AC/DC 230V 1 Phase ■ <			AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
004335 Power source MATRIX 3000 AC/DC 400V 3 Phase 004099 Power source MATRIX 5000 AC/DC 400V 3 Phase 004095 Power source MATRIX 5000 AC/DC 400V 3 Phase 004095 Power source MATRIX 5000 AC/DC 400V 3 Phase 004095 Power source MATRIX 5000 AC/DC 400V 3 Phase 004095 Power source MATRIX 5000 AC/DC 400V 3 Phase 002052 CEA Torch TXH 18.4 4 m 250 A 60% (DC) 020677 CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m 220 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m 220 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m 220 A 100% (DC) - water cooled For torches with 8 m long cable see tig accessories TROLLEYS 234929 Trolley CT 10 or power source, cooling equipment and cylinder 234928 Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder 234928 Tolley CT 70 with 4 rolls for power source, cooling equipment and cylinder 234928 Tolley CT 70 with 4 rolls for power source, cooling equipment and cylinder 234928 Tolley CT 70 with 4 rolls for power source, cooling equipment 4 m 223 A		POWER SOURCE								
004091 Power source MATRIX 4100 AC/DC 400V 3 Phase Image: Control of the second	004511	Power source MATRIX 2200 AC/DC 230V 1 Phase	٠	≋						
004095 Power source MATRIX 5100 AC/DC 400V 3 Phase ● ≈ 020622 CEA Torch TXA 18.4 4 m 320 A 100% (DC) - water cooled ≈ ≈ ≈ ≈ ∞	004535	Power source MATRIX 3000 AC/DC 400V 3 Phase			٠	≋				
WELDING TORCHES 020562 CEA Torch TXA 26.4 4 m 250 A 60% (DC) 020672 CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled 020677 CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled 020677 CEA Torch Mini TXH 20.4 4 m 320 A 100% (DC) - water cooled 020667 CEA Torch Mini TXH 20.4 4 m 220 A 100% (DC) - water cooled 767 torches with 8 m long cable see tig accessories For torches with 8 m long cable see tig accessories For torches with 8 m long cable see tig accessories 780000 Tolley CT 401 for power source, cooling equipment and cylinder 234323 Folley CT 75 with 4 rolls for power source, cooling equipment and cylinder 234928 Tolley CT 75 with 4 rolls for power source, cooling equipment and cylinder 234328 234328 032060 Water cooling equipment HR 22 200 V 28 8 8 032098 Water cooling equipment HR 23 400 V 8 8 8 8 8 8 8 <td< td=""><td>004091</td><td>Power source MATRIX 4100 AC/DC 400V 3 Phase</td><td></td><td></td><td></td><td></td><td>٠</td><td>≋</td><td></td><td></td></td<>	004091	Power source MATRIX 4100 AC/DC 400V 3 Phase					٠	≋		
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020667 CEA Torch Mini TXH 20.4 4 m 220 A 100% (DC) - water cooled For torches with 8 m long cable see tig accessories Image: Cooling equipment and cylinder Image: Cooling equipment and cylinder 234929 Trolley CT 401 for power source, cooling equipment and cylinder Image: Cooling equipment and cylinder 234914 Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder Image: Cooling equipment and cylinder 234928 Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder Image: Cooling equipment R22 032065 Water cooling equipment R22 230 V Image: Cooling equipment R22 032006 Water cooling equipment R22 200 V Image: Cooling equipment R22 032006 Water cooling equipment R22 30 V Image: Cooling equipment R22 032008 Water cooling equipment R23 400 V Image: Cooling equipment R23 400 V 032008 Water cooling iquid - 51 Tank Image: Cooling equipment R23 400 V Image: Cooling equipment R23 Image: Cooling equipment R23 <td< td=""><td>020672</td><td>CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled</td><td></td><td>≋</td><td></td><td>≋</td><td></td><td>≋</td><td></td><td>≋</td></td<>	020672	CEA Torch TXH 18.4 4 m 320 A 100% (DC) - water cooled		≋		≋		≋		≋
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TROLLEYS 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 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 WATER COOLING © ©	020667	CEA Torch Mini TXH 20.4 4 m 220 A 100% (DC) - water cooled								
234929 Trolley VT 101 for power source, cooling equipment and cylinder 234931 Trolley VT 101 for power source, cooling equippment and cylinder 234914 Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder 234928 Trolley CT 75 with 4 rolls for power source, cooling equippment and cylinder WATER COOLING ● 032065 Water cooling equipment HR 22 032060 Water cooling equipment HR 23 400 V ≈ 032098 Water cooling equipment HR 32 400 V ≈ 032096 Water cooling liquid - 51 Tank © ≈ GROUND CABLES ∞ 239601 35 mm² / 4 m Ground cable with clamp 239607 70 mm² / 4 m Ground cable with clamp GAS REDUCERS ∞ 020916 Reducer with flowmeter and 1 manometer 020920 ∞ ∞ ∞ 0202091 PSR 7 5 m foot remote control ∞ ∞ ∞ ∞ 239607 PSR 7 5 m foot remote control ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞ ∞<		For torches with 8 m long cable see tig accessories	1							
234931 Trolley CT 401 for power source, cooling equipment and cylinder 234934 Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder 234928 Trolley CT 75 with 4 rolls for power source, cooling equippment and cylinder WATER COOLING © ©<td></td><td>TROLLEYS</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td>		TROLLEYS								
234914 Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder ● ≈ ● ≈ ∞ ≈ ∞ ≈ ∞ ≈ ∞ ∞ ≈ ∞	234929	Trolley VT 101 for power source, cooling equipment and cylinder	•	≈	٠	≋				
234914 Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder ● ≈ ∞ ≈ ∞ ≈ ∞ ≈ ∞ ∞ ≈ ∞	234931	Trolley CT 401 for power source, cooling equipment and cylinder								
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WATER COOLING Image: Constraint of the second s	234928									
032060 Water cooling equipment HR 23 400 V 032098 Water cooling equipment HR 32 400 V 032098 Water cooling equipment HR 32 400 V 402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ ≈ 402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ ≈ ≈ 239601 35 mm² / 4 m Ground cable with clamp ≈ ≈ 239607 70 mm² / 4 m Ground cable with clamp ≈ ≈ ≈ 239607 70 mm² / 4 m Ground cable with clamp ≈ ≈ 239607 70 mm² / 4 m Ground cable with clamp ≈ ≈ 239607 70 mm² / 4 m Ground cable with clamp										
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402275A Cea CL-1100 cooling liquid - 5 I Tank ≈	032098							≋		≋
GROUND CABLESGround cable with clamp \approx \approx \approx \approx 23960135 mm² / 4 mGround cable with clamp \approx \approx \approx \approx \approx 23960770 mm² / 4 mGround cable with clamp \ast \ast \ast \ast \ast \ast GAS REDUCERS \ast 020916Reducer with flowmeter and 1 manometer \bullet $≈$ \bullet <	402275A			≋		≋		≋		≋
239607 70 mm² / 4 m Ground cable with clamp ● ≈ ● ≥ ≥ ≥ ≥<										
GAS REDUCERS Image: Constraint of the system of the s	239601	35 mm ² / 4 m Ground cable with clamp	•	≋	٠	≋				
GAS REDUCERS Image: Constraint of the system of the s	239607	70 mm ² / 4 m Ground cable with clamp					٠	≋	٠	≈
OPTIONAL Image: CD 6/8 8 m remote control with geared down potentiometer Image: CD 6/8 8 m remote control with geared down potentiometer 020919 PSR 7 5 m foot remote control Image: CD 6/8 8 m remote control 460056 Adapter for simultaneous connection of Torch and PSR 7 Image: CD 6/8 8 m remote control									1	
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	020916	Reducer with flowmeter and 1 manometer	•	≈	٠	≋	٠	≋	٠	≋
020919 PSR 7 5 m foot remote control 460056 Adapter for simultaneous connection of Torch and PSR 7		OPTIONAL								
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							1	
	020919									
	460056	Adapter for simultaneous connection of Torch and PSR 7							1	
	460005									
MATRIX 2200 AC DC Suggested air cooled version with torch		MATRIX 2200 AC DC Suggested air cooled version with torch								
MATRIX 2200 AC DC Suggested water cooled version with torch ≈		MATRIX 2200 AC DC Suggested water cooled version with torch		≋					I I I	
MATRIX 3000 AC DC Suggested air cooled version with torch					٠					
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MATRIX 4100 AC DC Suggested air cooled version with torch							•			
MATRIX 4100 AC DC Suggested water cooled version with torch and the second seco		00						≋		
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VT 101

CT 401

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.

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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 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"

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 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

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.





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DYNAMIC

Square wave: high arc dynamics for all applications



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



SPEED

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



COLD

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

		MATRIXX							
TECHNICAL DATA		220 AC/DC		300 AC/DC		400 /	AC/DC	500 AC/DC	
		TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Single phase input 50/60 Hz	V +/- 20%	23	30		_		-		-
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 / $\cos \phi$		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		0,8	80	0,	83	0,86		0,87	
Open circuit voltage	V	8	5	8	5	8	15	8	15
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 6	60974-1 • EN 60974	4-3 • EN 60974-10	S		
Protection Class	IP	23	S	23	3 S	23	3 S	23	3 S
Dimensions (L x W x H)	mm	530 x 2	15 x 410	530 x 2	15 x 410	710 x 29	90 x 530	710 x 29	90 x 530
Weight	Kg	2	0	21	1,5	5	3	5	i4

					MAT	RIX X			
CODE	DESCRIPTION	220 AC/DC		300 A	AC/DC	400 A	C/DC	500 A	AC/DC
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
	POWER SOURCE								
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							-	L
020562	CEA Torch TXA 26.4 4 m - 250 A 60% (DC)	•	\leq		\leq	•	\leq	•	\leq
020662	CEA Torch TXA 26.4 "UP/DOWN" 4 m - 250 A 60% (DC)							L	
020667	CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled		≋	\leq				\leq	L
020680	CEA Torch Mini TXH 20.4 "UP/DOWN" 4 m - 250 A 100% (DC) - water cooled			\leq				\leq	
020672	CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled			\leq	≋	\leq	≋	\leq	≋
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								L
	TROLLEYS								
234929	Trolley VT 101 for power source, cooling equipment and cylinder	•	≋	•	≋	\leq	\leq	\leq	\leq
234931	Trolley CT 401 for power source, cooling equipment and cylinder							\leq	
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder		\leq	\leq		•	≋	٠	≋
234928	Trolley CT 75 with 4 rolls for power source, cooling equippment and cylinder		\leq	\leq					
234932	Trolley CT 80 with 4 rolls for power source, cooling equippment and cylinder								
	WATER COOLING								
032120	Water cooling equipment HRX 20 230 V		≋	\leq			\leq	\leq	\leq
032115	Water cooling equipment HRX 30 400 V		\leq	\leq	≋		\sim	\leq	
032130	Water cooling equipment HRX 52 400 V			\leq			≋	\leq	≋
402275A	Cea CL-1100 cooling liquid - 5 I Tank		≋	\sim	≋		≋		≋
	GROUND CABLES			-					
239601	35 mm ² / 4 m Ground cable with clamp	•	≋	•	≋	-			
239607	70 mm ² / 4 m Ground cable with clamp					•	≋	•	≋
000010	GAS REDUCERS								<u> </u>
020916	Reducer with flowmeter and 1 manometer								
001110	OPTIONAL								
031118	TSA1 - TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V)								
031119	TSA5 - TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V)								
353485 353486	DFX1 - Dust Filter for MATRIX X 220 / X 300								
-	DFX5 - Dust Filter for MATRIX X 400 / X 500								
236243	CD 6/8 8 m remote control with geared down potentiometer PSR 7 5 m foot remote control								
020919 460056								<u></u>	<u> </u>
460056	Adapter for simultaneous connection of Torch and PSR 7 A6 Connection kit for non-standard Torch								
400005		•							
	MATRIX X 220 AC/DC Suggested air cooled version with torch MATRIX X 220 AC/DC Suggested water 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		~						
	MATRIX X 300 AC/DC Suggested all cooled version with torch			•	≈				
	MATRIX X 300 AC/DC Suggested water cooled version with torch				~	•			
	MATRIX X 400 AC/DC Suggested all cooled version with torch						≋		
	MATRIX X 500 AC/DC Suggested water cooled version with torch						~	•	
	MATRIX X 500 AC/DC Suggested all cooled version with torch								≋
		1			1				~



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





- 86 ROCK
- 88 PROJECT 2100
- 89 RAINBOW 180
- 90 MATRIX E

MMA CONVENTIONAL

- 92 ARC TRIARC
- 93 ARCTRONIC

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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 fibre 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	
		160	200	210 PR0
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
Current range	Α	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 • 🔊	
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	•	٠	•
201752	Kit of 2 male 50mm ² safety connections	•	٠	•
	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 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens	•	•	
460286	4+3 m 25 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² 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.

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





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

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 minimising any tungsten inclusion and avoiding any incision onto the workpiece.

TECHNICAL DATA		PROJECT 2100
Single phase input 50/60 Hz	V +/- 10%	230
Input Power @ I ² Max	kVA	11,1
Delayed Fuse (I eff)	А	25
Power Factor / cos ϕ		0,63/0,99
Efficiency Degree		0,84
Open circuit voltage	V	65
Current range	А	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 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.



ORDER INFORMATION



- 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 minimising 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 $oldsymbol{\phi}$		0,65/0,99
Efficiency Degree		0,83
Open circuit voltage	V	88
Current range	А	5 - 180
	A 100 %	110
Duty cycle at (40°C)	A 60 %	130
	A X %	180 (20%)
Standards		EN 60974-1 • EN 60974-10 • 🔊
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	4+3 m 25 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections brush/hammer - shield with lens	•
030940	Carrying Belt Kit		1
030963	Rainbow Bag		•
020558	Torch RTX 17.4 4 m	140 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.

MATRIXE 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	
IECHNICAL DAIA		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%)	A	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	1	00	100	100
Current Range	A	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 1	85 x 390	465 x 185 x 390	500 x 220 x 425
Weight	kg	12	16	<u>,</u> 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 minimising 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.



ORDER INFORMATION

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				1
236243	CD 6/8 8 m manual remote control	•	٠	•	٠
236244	CD 6/25 25 m manual remote control	•	٠	•	٠
236249	CD 6/50 50 m manual remote control	•	٠		٠
	OTHER OPTION[S]				
234912	Transport Trolley CT 10				٠
031150	Roll bar protection kit				
031100	CB 2 carrying Belt Kit	•			
	TIG TORCHES WITH 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%	•		•	





CD 6 remote control from 8 to 50 m

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.

ARC / TRIARC FEATURES

- Continuous welding current adjustment by magnetic shunt
- Standard delivered with large wheels and strong handles for easy manoeuvrability
- Easy change over 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%	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 / $\cos \phi$		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 SOURCES		
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 mm ² safety connections - brush/hammer - shield with lens	•	•
	TIG TORCHES WITH 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.

ARCTRONIC FEATURES

- 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



ORDER INFORMATION



Strong and powerful

Superior performance with any electrode
The best equipment for cellulosic eletrode

TECHNICAL DATA		ARCTRONIC				
		426	626			
Three phase input 50/60 Hz	V +/- 10%	230/400	230/400			
Input Power @ I ² Max	kVA	32,5	47,4			
Delayed Fuse (I eff)	Α	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 • El	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		
400202	brush /hammer - shield with lens	•	
460264	4+3 m 70 mm ² cables with electrodeholder pincer, ground clamp and 70 mm ² safety connections		
400204	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 (*)	•	•
344005	48 V - 32 A EC socket Kit (*)	•	•
201752	Kit of 2 male 50 mm ² safety connections	•	
201754	Kit of 2 male 70 mm ² safety connections		•
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE		
020568	Torch RTX 26.4 4 m - 180 A 35%	•	•

(*) To be mounted and connected at customer's care





- 96 30 YEARS ROBOTIC EXPERIENCE
- 97 WELDING & ROBOTICS
- 98 ROBOT SOLUTION DIGITEC VP2
- 100 COBOT SOLUTION DIGITEC VP2
- 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.



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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.



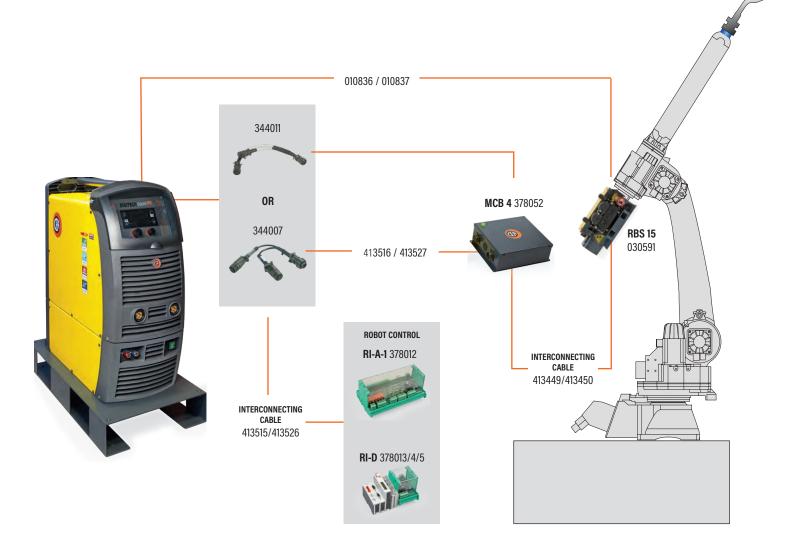
MCB4

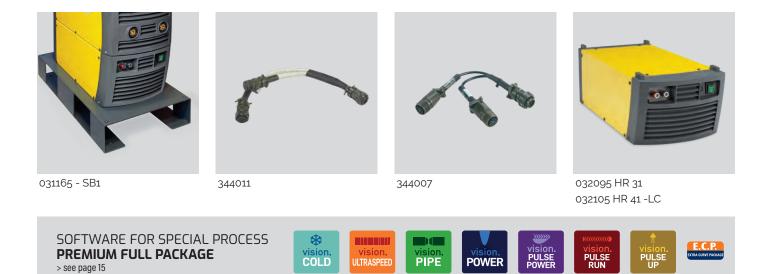
Control box for the wire feeder and auxiliary functions purpose-designed to be fitted either inside the power source, or inside the external robot control or even on the robot structure depending on the integrator's needs.





ROBOT SOLUTION - DIGITECH VP2

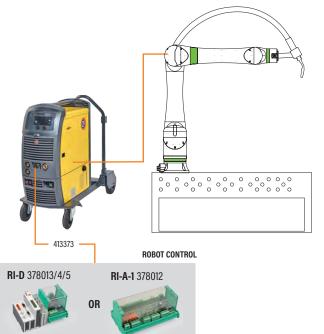




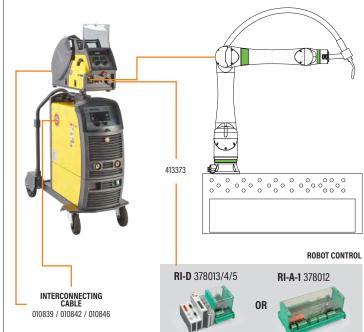
CODE	DESCRIPTION	DIGI 33	00	40	TECH 00	50	TECH 00
OODL		INTEF			RFACE	1	RFACE
		Analog.	Digital	Analog.	Digital	Analog.	Digital
	POWER SOURCES						
004705	Power Source DIGITECH 3300 VP2 400 V	A	D				
004710	Power Source DIGITECH 4000 VP2 400 V			A	D	1	1
004715	Power Source DIGITECH 5000 VP2 400 V					A	D
	SPECIAL VERSIONS - POWER SOURCE FITTED WITH SOFTWARE						
004705P	Power source DIGITECH 3300 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004710PR	Power source DIGITECH 4000 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004715PR	Power source DIGITECH 5000 VP2 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.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						
200000	INTERCONNECTING CABLES						
010836	5 m Air / Water cooled Interconnecting cable	A	D	A	D	A	D
010837	10 m Air / Water cooled Interconnecting cable						
	WIRE FEEDER				1	1	1
030591	Robot Wire Feeder RBS 15 with Euro Connect. 4 rolls (Ø 1.0÷1.2)	A	D	А	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	А	D	Α	D
032105	Water cooling equipment HR 41 - LC 400 V reinforced pump - 4,5 bar					-	
402275A	Cea CL-1100 cooling liquid - 5 l Tank	A	D	A	D	A	D
	ROBOTICS PACKAGE						_
378052	MCB 4 - Motor Control Box	A	D	A	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						
378012	Robot Interface RI-A 1 Analogic/Digital	A		A		A	
378013	Robot Interface RI-DD DeviceNet Robot Interface RI-DE EtherNet/IP		DeviceNet	>	DeviceNet		DeviceNet EtherNet/IP
378014	Robot Interface RI-DE EtherNet/IP Robot Interface RI-DP ProfiNet		EtherNet/IP ProfilNet		EtherNet/IP ProfilNet		ProfilNet
378015 344007	Connector cable kit to link Power source with MCB 4 - interface (R1) to be used with 413516 or 413527		Profilinet		Profilinet		Profilinet
344007	Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI)	A	D	A	D	A	D
413526	5 m Interconnecting cable Power source - Robot Interface	A	D	A	D	A	D
413515	10 m Interconnecting cable Power source - Robot Interface		0				
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			А	D	Α	D
	TROLLEY AND SUPPORT BASE						
031165	Support Base SB1 for Power source						
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)						
	OTHER OPTION[S]						
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase						-
030947	Aluminium Kit of double grooved TWIN rolls (Ø 1.0 ÷1.2) and gears kit for Al wires						
030949	Aluminium Kit of double grooved TWIN rolls (Ø 1.2÷1.6) and gears kit for Al wires						
	DIGITECH 3300 VP2 ANALOGIC Interface COMPLETE PACKAGE Suggested version	A					
	DIGITECH 3300 VP2 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version		EtherNet/IP				
	DIGITECH 4000 VP2 ANALOGIC Interface COMPLETE PACKAGE Suggested version			Α			
	DIGITECH 4000 VP2 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version				EtherNet/IP		
	DIGITECH 5000 VP2 ANALOGIC Interface COMPLETE PACKAGE Suggested version					A	
	DIGITECH 5000 PV2 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version				1	1	EtherN

COBOT SOLUTION





SEPARATED WIRE FEEDER



CODE	DESCRIPTION	3	ITECH 200 DIGITAL
	POWER SOURCES	/III/ILOG	DIGHTAL
004700	Power Source DIGITECH 3200 VP2 400 V (4 rolls for wire Ø 0,8÷1,0 mm)	A	D
	PREMIUM VERSION - POWER SOURCES		
004700PR	Power Source DIGITECH 3200 VP2 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		
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		
	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	Α	D
402275A	Cea CL-1100 cooling liquid - 5 l Tank	Α	D
	ROBOTICS PACKAGE		
378012	Robot Interface RI-A 1 Analogic/Digital	Α	
378013	Robot Interface RI-DD DeviceNet		DeviceNet
378014	Robot Interface RI-DE EtherNet/IP		EtherNet
378015	Robot Interface RI-DP ProfiNet		ProfilNet
413373	2 m Interconnecting cable Power source - Robot Interface	Α	D
	GROUND CABLES		
239603	50 mm ² / 4 m Ground cable with clamp	Α	D
	TROLLEY AND SUPPORT BASE		
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)	Α	D
234928	Trolley CT 75 with 4 rolls for power source, cooling equippment 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	Α	
	DIGITECH 3200 VP2 - ETHERNET/IP Interface COMPLETE PACKAGE Suggested version		EtherNet

ORDER INFORMATION

	DESCRIPTION	33	TECH 300	40	TECH 000	50	TECH 000
			RFACE		RFACE	1	RFACE
		Analog.	Digital	Analog.	Digital	Analog.	Digital
	POWER SOURCES						
004705	Power Source DIGITECH 3300 VP2 400 V	A	D		-		
004710	Power Source DIGITECH 4000 VP2 400 V			A	D		
004715	Power Source DIGITECH 5000 VP2 400 V					A	D
004705PR	SPECIAL VERSIONS - POWER SOURCE FITTED WITH SOFTWARE Power source DIGITECH 3300 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004705PR 004710PR	Power source DIGITECH 3300 VP2 CHARMOND 400 V with Vision.FULL PACKAGE and Ethernet socket Power source DIGITECH 4000 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004710FR	Power source DIGITECH 4000 VP2 CHEMICID 400 V with Vision.FULL PACKAGE and Ethernet socket Power source DIGITECH 5000 VP2 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket						
004713111	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 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						
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	A	D	A	D	A	D
010842	5 m Air / Water cooled Interconnecting cable						
010846	10 m Air / Water cooled Interconnecting cable						
000745			-				
030715	Wire Feeder HT 5 with Euro Connect. 4 rolls (0: 1,0 / 1,2)	A	D	A	D	A	D
030872	WK1 standard wheels kit for HT 5 feeder						
031007	WK 2 extra-large wheels kit for HT 5 feeder WATER COOLING						
022005	Water cooling equipment HR 31 400 V	٨	D	٨	D	٨	D
032095	Water cooling equipment HR 41 - LC 400 V reinforced pump - 4,5 bar	Α	U	A	U	A	U
402275A	Cea CL-1100 cooling liquid - 5 l Tank	A	D	A	D	A	D
402275A	ROBOTICS PACKAGE	A	D	A	U	A	D
378012	Robot Interface RI-A1 Analogic/Digital	A		A		Α	
on demand	Robot Interface RI-DM Modbus		Modbus		Modbus	A	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	A	D	A	D
	GROUND CABLES						
239603	50 mm2 / 4 m Ground cable with clamp	A	D				
239607	70 mm2 / 4 m Ground cable with clamp			Α	D	А	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)	A	D	Α	D	Α	D
234928	Trolley CT 75 with 4 rolls for power source, cooling equippment and cylinder (and autotransformer)						
	OTHER OPTION[S]						
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase						
030895	Aluminium Kit of double grooved TWIN rolls (Ø 0.8÷1.2) 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 (Ø 1.2 ÷ 1.6) and gears kit for Al wires						
	DIGITECH 3300 VP2 ANALOGIC Interface COMPLETE PACKAGE Suggested version	A					
	DIGITECH 3300 VP2 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version		EtherNet				
	DIGITECH 4000 VP2 ANALOGIC Interface COMPLETE PACKAGE Suggested version			A	Tel		
	DIGITECH 4000 VP2 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version				EtherNet		
	DIGITECH 5000 VP2 ANALOGIC Interface COMPLETE PACKAGE Suggested version					A	Fall a Maria
	DIGITECH 5000 PV2 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version						EtherNet





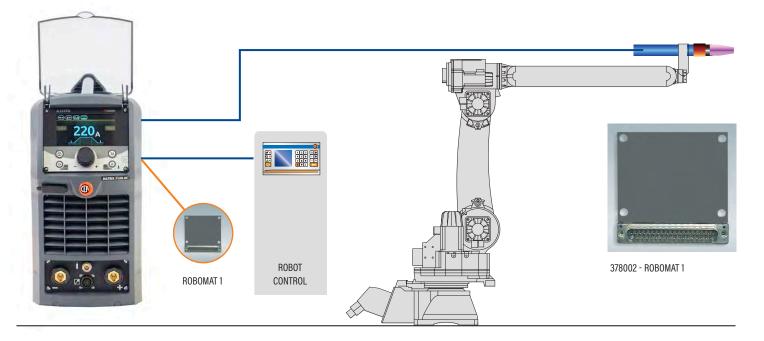






ROBOT TIG DC SOLUTION

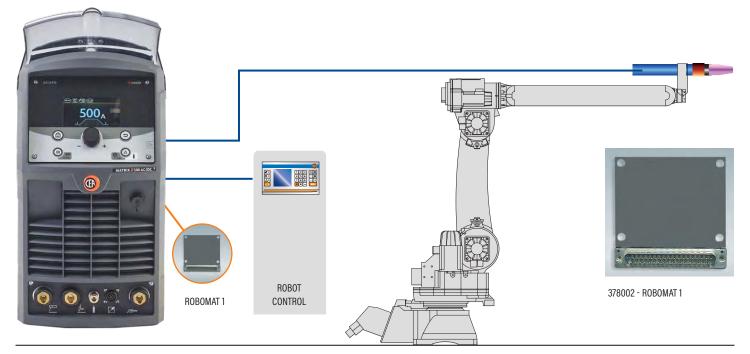
MATRIX series three-phase power sources, in the special "R" version, can be easily integrated in TIG welding automated equipment by means of ROBOMAT 1 interface which handles both all the start/stop signals of the process and main welding parameter adjustments.



CODE	CODE DESCRIPTION		TRIX HF-R		TRIX HF-R	MATRIX X 220 HF-R		MAT X 300	
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
	POWER SOURCES - DC								
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		≋			\nearrow			
032098	Water cooling equipment HR 32 400 V				≋				
032120	Water cooling equipment HRX 20 230 V						≋		
032115	Water cooling equipment HRX 30 400 V					\nearrow			≋
031166	Adaptor Plate Kit for Matrix 4200 if used with CT 401 and HR 32				≋				
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≈		≋	\nearrow	≋		≋
	ROBOTICS PACKAGES								
413508	5 m Interconnecting cable ROBOMAT 1 / automatic equipment		≋		≋		≋		≋
378002	Robot Interface ROBOMAT 1		≋		≋		≋		≋
	GROUND CABLES								
239601	35 mm ² / 4 m Ground cable with clamp	•	≋				≋		≋
239603	50 mm ² / 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 equippment 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								
	MATRIX X 220 HF-R robot use complete package Suggested water cooled version						≋		
	MATRIX X 300 HF-R robot use complete package Suggested air cooled version								
	MATRIX X 300 HF-R robot use complete package Suggested water cooled version								≋



ROBOT TIG AC/wDC SOLUTION



CODE	DESCRIPTION		X 3000 DC-R		X X 220 DC-R		K X 300 DC-R		X X 400 DC-R		X 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						≋				
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										≈
	WATER COOLING										
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						≋				
032130	Water cooling equipment HRX 52 400V ordered with "CT" trolley								≋		≋
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		≋	\nearrow	≋		≋		≋
	ROBOTICS PACKAGES										
413508	5 m Interconnecting cable ROBOMAT 1 / automatic equipment		≋		≋		≋		≋		≋
378002	Robot Interface ROBOMAT 1		≋		≋		≋		≋		≋
	GROUND CABLES										
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										≋
	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										
234914	Trolley CT 70 with 4 rolls for power source, cooling equippment and cylinder								≋		≋
234932	Trolley CT 80 with 4 rolls for power source, cooling equippment and cylinder										
	OTHER OPTION										
460005	A6 Connection kit for non-standard Torch		≋		≋		≋		≋	٠	≈
	MATRIX 3000 AC/DC-R complete package air cooled										
	MATRIX 3000 AC/DC-R complete package water cooled		≋								
	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										
	MATRIX X 300 AC/DC-R complete package water cooled						≋				
	MATRIX X 400 AC/DC-R complete package air cooled										
	MATRIX X 400 AC/DC-R complete package water cooled								≋		
	MATRIX X 500 AC/DC-R complete package air cooled										
	MATRIX X 500 AC/DC-R complete package water cooled										≋

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ERA Technologies automate production exchange CLOUD industry REVOLUTION stem Adaptability effectiveness ERA Technologies Industry REVOLUTION Stem Adaptability effectiveness Industry REVOLUTION Stem Adaptability effectiveness Industry REVOLUTION In

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CEA NETWORK Anything WELDING NETWORK AND CLOUD COMPUTER REDU

> ROSS UNCTION MPUTER APPLICATION APPLICAT

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DUSTRY

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).



- Low energy consumption thanks to latest generation inverter power sources.
- Remote auto-diagnostic system.



CQM CEA QUALITY MANAGER



QUALITY CONTROL AND PARAMETER PRINTING

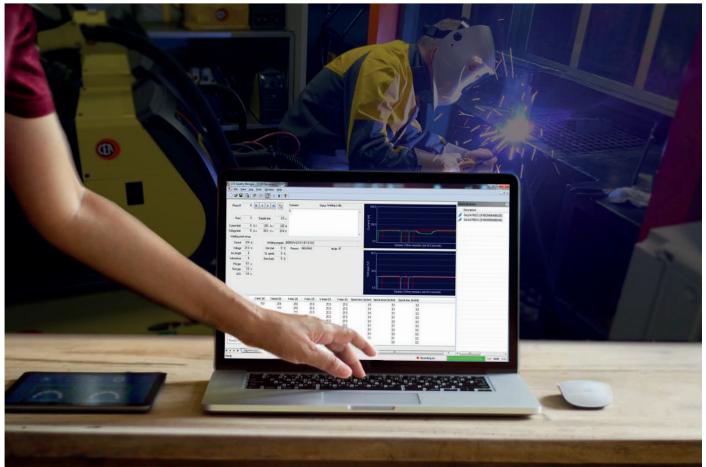
CQM "CEA QUALITY MANAGER" software has been developed by CEA to enable welding data recording, monitoring and printing by means of an external computer connected to one or more power sources of QUBOX and DIGITECH VP2 series.

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

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 VP2 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.



					-	P.O. Tel. +30 Fax +20- T. Numbe	Ban 205 0341-22 0341-42	322 2646 4640130	TALY		
Piece: Description	CRANE: TEST N		456		c	OD:	В	71235	478		
Notes:	NOTES										
Operator: Welder: Firmware:	Paul Sm Digitech H04-03	Vision	5000	BETA1	012 CO	4-28.01	S/N: 500A		AG107	005	
				Pł	nase i	#1					
Description Sampling ti		ECH 50	00 VIS	ION ent limi	10	~			P	10 %	
	me 1.0 s		Cum	ene whi	10	70		/oltage	nme	10 %	
Run 1 Curve	[1011] F	e G3 S	1.100	8 Ar 1	3.20% (202		Induct	anna	0	
Process	MIG Pu							Pre ga	s	0.1 s	
Mode Current	41 200 A							Post g Burn b		1.0 s 0 %	
Voltage	27.5 V							Hot sta		0 %	
Starting	0 %							Job sk	ope	0.5 s	
Arc	0										
Started: 18	/03/2016 11				Termina						
Sample #	T [s]	Min	Mean			Mean			Mean	m/min] Max	
1	0.20	109	111	112	19.80	20.30	20.80			17.10	
Run 2	/03/2016 11	10.52			Termina	deals 10	02200	0 11.1	1.20	_	
			urrent			ltage [peed [m/min1	
Sample #	T [s]	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	
2	1.00		101	112	15.00	17.50	20.80			17.20	
4	3.00	80	81	83	11.50	11.90	12.40	17.00	17.10	17.20	
6	4.00			80						17.10	
7	6.00	78	78	79	11.00	11.00	11.10	17.00	17.10	17.10	
8				78	10.90	10.90	11.00	17.00	17.10	17.20 17.10	
10										17.20	
11										17.20	
11 12 13 14	12.00			78	10.80					17.20	

Sample #	T [s]	Current [A] Min Mean Max				Wire speed [m/min] Min Mean Max				
189	16.00	Min 185					Max 25.10		Mean 10.00	
189	17.00		185				25.00		10.00	
190	17.00						25.00			10.00
192	19.00						25.00		10.00	
192	20.00						25.00			10.00
194	21.00						25.00			10.00
195	22.00						25.00			10.00
196	23.00						25.00		10.00	
197	24.00	185	185	186	24.90	25.00	25.00	9.90	10.00	
198	25.00						25.00			10.00
199	26.00		186				25.00		10.00	
200	27.00	185	186	186	25.00	25.00	25.00	9.90	9.90	10.00
201	27.40	185	185	186	25.00	25.00	25.00	9.90	10.00	10.10
Run 11										
Started: 18/03/2016 11:15:05						Terminated: 18/03/2016 11:15:11				
Sample #	T [s]	Current [A]		Voltage [V]			Wire speed [r			
		Min	Mean		Min	Mean			Mean	
202	1.00	89	93	97		16.60			10.00	
203	2.00		90	100			27.20		10.00	
204	3.00		134	153 173			27.10			10.00
							25.80		10.00	
205	4.00		166						10.00	
206	5.00	174	178	181	25.10	25.20	25.30	9.90	10.00	
206 207	5.00 6.00	174 181	178 183	181 184	25.10 25.00	25.20 25.10	25.30 25.10	9.90 9.90	10.00	10.00
206 207 208	5.00	174 181	178	181 184	25.10 25.00	25.20	25.30 25.10	9.90	10.00	
206 207 208 Run 12	5.00 6.00 6.80	174 181 184	178 183	181 184 185	25.10 25.00 25.00	25.20 25.10 25.00	25.30 25.10 25.00	9.90 9.90 9.90	10.00 9.90	10.00
206 207 208 Run 12 Started: 18/	5.00 6.00 6.80 03/2016 11	174 181 184	178 183 184	181 184 185	25.10 25.00 25.00	25.20 25.10 25.00	25.30 25.10 25.00	9.90 9.90 9.90	10.00 9.90 5:27	10.00
206 207 208 Run 12	5.00 6.00 6.80	174 181 184 :15:23 Cu	178 183 184	181 184 185 A]	25.10 25.00 25.00	25.20 25.10 25.00	25.30 25.10 25.00	9.90 9.90 9.90 16 11:1 Wire s	10.00 9.90 5:27 peed [r	10.00 10.00 n/min]
206 207 208 Run 12 Started: 18/	5.00 6.00 6.80 03/2016 11	174 181 184 :15:23 Cu	178 183 184	181 184 185 A]	25.10 25.00 25.00 Termina Vo Min	25.20 25.10 25.00 ated: 18	25.30 25.10 25.00	9.90 9.90 9.90 16 11:1 Wire s Min	10.00 9.90 5:27	10.00 10.00 n/min] Max
206 207 208 Run 12 Started: 18/ Sample #	5.00 6.00 6.80 03/2016 11 T [s]	174 181 184 :15:23 Ct Min 89	178 183 184 arrent (Mean	181 184 185 A] Max	25.10 25.00 25.00 Fermina Vo Min 14.70	25.20 25.10 25.00 sted: 18 bitage	25.30 25.10 25.00 //03/20 V] Max 19.50	9.90 9.90 9.90 16 11:1 Wire s Min 9.90	10.00 9.90 5:27 peed [r Mean	10.00 10.00 n/min] Max 10.00
206 207 208 Run 12 Started: 18 Sample # 209	5.00 6.00 <u>6.80</u> 03/2016 11 T [s] 1.00	174 181 184 :15:23 Ct Min 89 86	178 183 184 Irrent [Mean 93	181 184 185 A] Max 98	25.10 25.00 25.00 Termina Vo Min 14.70 12.60	25.20 25.10 25.00 ated: 18 bitage Mean 16.80 13.40	25.30 25.10 25.00 //03/20 V] Max 19.50	9.90 9.90 9.90 16 11:1 Wire s Min 9.90 9.90	10.00 9.90 5:27 peed [r Mean 10.00	10.00 10.00 n/min] Max 10.00 10.00
206 207 208 Run 12 Started: 18/ Sample # 209 210	5.00 6.00 6.80 03/2016 11 T [s] 1.00 2.00	174 181 184 :15:23 Ct Min 89 86 85	178 183 184 arrent (Mean 93 87	181 184 185 A] Max 98 89	25.10 25.00 25.00 Fermina Vo Min 14.70 12.60 12.40	25.20 25.10 25.00 ited: 18 itage Mean 16.80 13.40 18.60	25.30 25.10 25.00 //03/20 V] Max 19.50 14.40	9.90 9.90 9.90 16 11:1 Wire s Min 9.90 9.90 9.90	10.00 9.90 5:27 peed [r Mean 10.00 10.00 10.00	10.00 10.00 n/min] Max 10.00 10.00
206 207 208 Run 12 Started: 18/ Sample # 209 210 211	5.00 6.00 03/2016 11 T [s] 1.00 2.00 3.00	174 181 184 :15:23 Ct Min 89 86 85 112 158	178 183 184 Irrent [Mean 93 87 90	181 184 185 A] Max 98 89 105	25.10 25.00 25.00 Min 14.70 12.60 12.40 24.60 24.90	25.20 25.10 25.00 ited: 18 itage 16.80 13.40 18.60 24.80 24.90	25.30 25.10 25.00 //03/20 V] Max 19.50 14.40 24.60	9.90 9.90 9.90 16 11:1 Wire s Min 9.90 9.90 9.90 9.90 9.90	10.00 9.90 5:27 peed [r Mean 10.00 10.00 10.00	10.00 10.00 m/min] Max 10.00 10.00 10.00 10.00

8/03/2016 11:19:16





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 VP2 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 VP2 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, thenafter, 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.

CEA Costruzio C.so Ema 23900 Lec Tel. +39 (Fax +39 (nuele Fili co • Itali 1341 2232	berto, a 22		ne Annettoni	S.p.A.	Issued date: Calibrated date: Approved date: Calibration due date:					27/10/2015 27/10/2015 27/10/2015 27/10/2016						
Calibration certi	ficate N	o: C	EA 2	2015 001			1										
Customer:							1										
Addresses:																	
BASIC INFORM	TIONS																
Type of unit:		М	IIG /	MAG welding	g machi	ne wit	h se	parate	e wir	e feeder							
Power source:	DIGITE	CH 500	0 VIS	SION PULSE	Serial	num	ber:	YI	B 10	7 011							
Control panel:	DH 50				Serial	num	ber:	F)	K 002	2061040801	100						
Wire feeder:	HT 5				Serial	num	ber:	YI	D 25	1 020							
General notes:	Wire F	e d=1.	.0mm	n – Connectio	on cable	e 10m	t – T	orch (C350	4mt							
CALIBRATION S	PECIFIC	CATIO	NS														
Equipment func	tion und	ler tes	it:	VOLTAGE	CURR	ENT	WIR	E SPI	EED	DISPLAYS							
Validation metho	od:			Convention	al load	resist	or –	MIG/N	ИAG	(CV) / rotar	y transc	lucer					
Validation type:	Acc	uracy	x	Consistenc	у												
Validation grade	: Star	ndard	x	Precision			[Valid	atio	n range:	Full r	ange					
Power source ra max current:	ted	500A	<i>۱</i>	Power sou current:	rce rat	ed mi	n	10A		Power so voltage:	urce no	_load	70V				
	Max allowed error of display A (±2.5 %):				ed erro ±2.5 %			± 1.7	5 V				-				
Wire feed speed min value:	rated	0.0 m/n		Wire feed s rated max				25 min		x allowed e vire feed s		± 10 % value	of set				
TEST CONDITIO	NS																
Ambient temper	ature:	25	°C	Input volta	ge:	400	v	Input	volta	age frequer	ncy:	4	50Hz				

SET P	OINTS			VC	DLTME	TER			AMMETER								
V_2	l ₂		MEASURED VOLTAGE	AVERAGE MEASURED VOLT	DISPLAY	AVERAG		MEASUREI CURRREN		DISPLAY A	AVERAGE DISP IND	ERROR A					
[V]	[A]		[V]	[V]	[V]	[V]	[V]	[A]	[A]	[A]	[A]	[A]					
14,0	10	MEAS 1,1	13,35	13,11	13,3	13,1	5 0,04	9,34	9,27	9	9,0	-0,27					
14,0	10	MEAS 1,2	12,87	13,11	13,0	13,13	5 0,04	9,20	9,27	9							
20,25	125	MEAS 2,1	20,82	20.82	20,8	20,8	0,02	125,80	125.67	125	125,0	-0,67					
20,25	125	MEAS 2,2	20,82	20,02	20,8			125,54	123,07	125							
26.5	250	MEAS 3,1	27,33	27,24	27,3	27.2	5 0.01	251,20	251.00	250	250,0	-1,00					
20,5 250		MEAS 3,2	27,15	27,21	27,2	21,2	0,01	250,80	201,00	250							
32.75	375	MEAS 4,1	33,00	32.90	32,9	32.8	5 -0.05	375,80	375.50	375	375,0	-0,50					
32,75	575	MEAS 4,2	32,80	02,00	32,8	32,0	-0,03	375,20	375,50	375							
39,0	500	MEAS 5,1	40,40	40,15	40,5	40.2	5 0.10	499,60	499.50	500	500.0	0,50					
39,0	500	MEAS 5,2	39,90	40,10	40,0	40,2	0,10	499,40	433,50	500	500,0	0,50					
SET PC	DINTS				WIR	E SPE	ED MET										
WIRE S	PEED		MEASURE WIRE SPEE			NSPLAY RE SPEED	AVERAGE DISP IND	ALLOW	MAX ALLOWED ERROR ERROR								
[m/m	nin]		[m/min] [m/m	nin] [n	n/min]	[m/min] [m/mi	n] [m/m	nin]							
0,6		MEAS 1,1	0,5	0.5	0	0,6	0.6	± 0.0	6 0,0	5							
		MEAS 1,2	0,5	0,5	v	0,5	0,0	10,0	0,0	5							
6.7		MEAS 2,1	6,6	6.6	0	6,6	6.6	± 0.6	, 0,0	0							
0,1		MEAS 2,2	6,6	0,0	°	6,6	0,0	1 0,0									
12.	8	MEAS 3,1	12,5	12.6	30	12,8	12.8	± 1.2	в 0,2	0							
	0	MEAS 3,2	12,7			12,8	12,0	2 1,2	0 0,L	.0							
18.	9	MEAS 4,1	18,3	18.4	10	18,9	18.9	± 1.8	9 0,5	0							
,	-	MEAS 4,2	18,5	,		18,9	,.	,.	,-	-							
25.	0	MEAS 5,1	24,3	24.3	30	25,0	25.0	± 2.5	0.6	5							
20,	0	MEAS 5,2	24,3	2.1,5		24,9	20,0	1 2,0	0,0	.0							
CALIBR	ATION	EQUIPMEN	τ														
RE	F			D	ESCRI	PTION				CAL D	ATE EX	PIRE					
CEA E	153	SMP 1286	- LOAD	RESIST	OR AN	ID ROT	ARY TR	ANSDUC	ER	J.	AN 2016						
CEA N	1D39	FLUKE 77	- MULT	IMETER	FOR	WELDI	NG VOL	TAGE		0	CT 2016						
CEA E	138	CURRENT	SENSC	R – 100	0A 5V	1%				J.	AN 2016						
CEA MD47 METRAHITPRO – MULTIMETER FOR WELDING CURRENT											AN 2016						
CALIBR	ATION	RESULT								lisomoccanici		i S.p.A					
RESULI	r:	Passed	x	Faile	d			cc	NISO E. FI	HBERTO, 27	- LECCO						
WORK F	PERFO	RMED BY:	R. 1	/ALSEC	CHI	SIG	GNATUR	:E:		Jona	Khy	/					
40000	APPROVED BY: A. VALSECCHI							IANAGE	R:	like.	LA.						



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 S700, e.g. civil buildings such as homes and offices from 2 to 15 storeys.

EXC 3:

structures subjected to high degree of stress, e.g. buildings higher than 15 storeys 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.

FAQ

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 VP2

CODE	DESCRIPTION
	CWM&CQM for DIGITECH VP2
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. (Licence for Power source must be ordered separately) (***)
050062	Unitary Licence 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 VP2 PREMIUM 4.0 power sources (see below). These equippments 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 implement afterwards on any equippment different from version DIGITECH 4.0.

INDUSTRY 4.0

CODE	DESCRIPTION
	DIGITECH VP2'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 (*)
004712	Power source DIGITECH 4000 VP2 - 4.0 Ready - 400V Ethernet & USB socket (*)
004718	Power source DIGITECH 5000 VP2 - 4.0 Ready - 400V Ethernet & USB socket (*)
004707PR	Power source DIGITECH 3300 VP2 - Premium 4.0 Ready -400V vision.FULL PACKAGE & Ethernet & USB socket (*)
004712PR	Power source DIGITECH 4000 VP2 - Premium 4.0 Ready -400V vision.FULL PACKAGE & Ethernet & USB socket (*)
004718PR	Power source DIGITECH 5000 VP2 - Premium 4.0 Ready -400V vision.FULL PACKAGE & Ethernet & USB socket (*)
050064	Unitary Licence for any single power source to be ready for INDUSTRY 4,0 requirement (***)
NOTE:	(*) Unitary licence 050064 inclunded 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 reeder Additional Kit (Not included in the power source) ONLY with DIGITECH VP2 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 VP2 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 VP2	0			0	0		
Digitech VP2 PREMIUM	Х			0	0		
Digitech VP2 4.0	Х	Х	Х	0	0	0	0
Digitech VP2 PREMIUM 4.0	Х	Х	Х	0	0	0	0

X = Included 0 = 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



WF5



MF4 YARD

MINI MF4



SWF



QF7 W PRO DRIVE



WF6



HT5



MF4



HT6 PRO DRIVE



ORDER INFORMATION



YARD 4

DIGITECH VP2 CODE DESCRIPTIONS MAXI Q QYARD QUBOX MAXII MAXI WIRE FEEDERS with 4 rolls (Ø 1.0 / 1.2) 030635 Closed Wire Feeder WF 5 Closed Wire Feeder SWF STRONG FEEDER 030755 with 4 rolls (Ø 1.0 / 1.2) • • WF 6 030636 Wire Feeder with 4 rolls (Ø: 1,0 / 1,2) Air cooled version . Hybrid Synergic[®] 030730 Wire Feeder MF 4 with 4 rolls (Ø: 1,0 / 1,2) Air cooled version 030735 Wire Feeder MF 4 W Hybrid Synergic ^R with 4 rolls (Ø: 1,0 / 1,2) Water cooled version . 030731 Wire Feeder MF 4 yard with 4 rolls (Ø: 1,0 / 1,2) Air cooled 030736 MF 4 W yard with 4 rolls (Ø: 1,0 / 1,2) Water cooled Wire Feeder . QF 7 W PRO DRIVE 030726 Wire Feeder with 4 rolls (Ø: 1,0 / 1,2) Water cooled with 4 rolls (Ø 1.0 / 1.2) 030715 Wire Feeder HT 5 HT 6 PRO DRVE 030716 Wire Feeder with 4 rolls (Ø 1.0 / 1.2) • YARD WIRE FEEDERS - 200 mm SPOOL Mini MF 4 yard with A/V and Flowmeter - 4 rolls (Ø: 1,0 / 1,2) Air cooled 030727 Wire Feeder Mini MF 4 W yard with A/V and Flowmeter - 4 rolls (Ø: 1,0 / 1,2) Water cooled 030728 Wire Feeder YARD 4 with A/V and Flowmeter - 4 rolls (Ø: 1,0 / 1,2) Air cooled 030724 Wire Feeder • YARD 4 W with A/V and Flowmeter - 4 rolls (Ø: 1,0 / 1,2) Water cooled 030729 Wire Feeder •

WIRE FEEDER ACCESSORIES

MIG ACCESSORIES







HK1



MXi

ORDER INFORMATION



ADAPTOR SOCKET FOR MMA



SPOOL COVER TR2 TR4



WK4



DOUBLE FEEDER SUPPORT HT5



WF WHEELS KIT W. FASTENING PLATE



FASTENING PLATE FOR WF5

CODE	DESCRIPTIONS	MF4	MF4W	MF4 YARD	MF4 W YARD	QF7 W PRO DRIVE	YAARD 4	YAARD 4 W	HT5	HT6 PR0 DRIVE	WF5	SWF	WF6
	WHEELS KIT												
031116	WK 1 standard wheels kit								٠				
031007	WK 2 extra-large wheels kit	•	٠	٠	٠	٠			٠				•
031116	WK 4 standard wheels kit	•	٠	٠	٠	٠							٠
0309627	WF WHEELS KIT with fastening plate										٠		
	OTHER ACCESORIES												
031117	HK 1 - Hanging Kit		٠	٠		٠							
400034	ADAPTOR socket for MMA			٠	٠								
030873	Support and connction kit for double HT5 wire feeder								٠				
030887	Fastening plate to fix interconnective cable to WF5										٠		
031009	"MXi" to connect water cooled interconnecting cable to wire feeder												•
420430	Complete spool cover for TR2 and TR4												



FEEDING ROLLS TABLE

MIG ACCESSORIES FEEDER MECHANISMS IN PRODUCTION



В

YARD 4 COMPACT 364 - 410 COMPACT 3100 SYN TR 4 COMPACT 3600 SYN COMPACT 4100 SYN MINI 4 - DTR 4 AV



TREO 181 TREOSTAR 1800 TREOSTAR 2000 PULSE TREO 1800 Synergic DIGISTAR 2000 PULSE TREO 1650 Synergic TREO 1650 Synergic



 RBS

 WF 4
 DF 4

 TA 4
 ES 4 - ES 5

 DIGITECH 300
 MAXICOMPACT 324 - 404

 MCS 324 Synergic
 MCS 404 Synergic



E

DIGITECH 3200 HT 5 OF 7 PRO DRIVE WF 6 HT6 PRO DRIVE SHS SWF WF 5 MF4 HS 5 OF 4 DF 5 HT 4 HS 4 CONVEX 320 BASIC CONVEX 3200 VISION F

* The machine models in bold are in production



CONVEX MOBILE CONVEX 321 / 401 CONVEX 325 / 405 PULSE DOGMA





ORDER INFORMATION

COMPACT 270 COMPACT 310 COMPACT 240M

CODE	Ø WIRE mm	MATERIAL	TYPE OF ROLL		Quantity per FEEDER									
0052				A	В	С	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								
459172	0,8 - 1,0	Steel	Motor			1								
459174	1,0 - 1,2	Steel	Motor			1				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	1					
458965	1,6 - (2,0) - 2,4	Flux cored	Motor		2		2	2						
458979	0,8 twin	Aluminium	Idle					2						
458981	1,0 twin	Aluminium	Idle					2						
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							
459180	0,8 - 1,0	Aluminium	Motor			1								
459182	1,0 - 1,2	Aluminium	Motor			1								
459190	1,0 - 1,2	Flux cored	Motor			1								
459001	All	Steel	Idle						2	2				
459002	0,6 - 0,8	Steel	Motor						2	2				
459005	0,8 - 0,9	Steel	Motor						2	2				
459003	0,8 - 1,0	Steel	Motor						2	2				
459004	1,0 - 1,2	Steel	Motor						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					
459021	1,2 twin	Flux cored	Idle						2					
459019	1,6 twin	Flux cored	Idle						2					
459022	1,0 twin	Flux cored	Motor		 				2					
459022	1,2 twin	Flux cored	Motor						2					
459023	1,6 twin	Flux cored	Motor						2					
400024	1,0 (WIII				!	1	!	1	<u> </u>	!				

FEEDER MECHANISMS OF EQUIPMENT OUT OF PRODUCTION



SMARTMIG M20 SMARTMIG T21





TR 2 WF 2 WF 3 MAXICOMPACT 322 MAXICOMPACT 402



TR 50 Monofil Eurofil Eurocompact 320



TR 80 WF 82 WF 103



TE 904 RC WF 104 DF 104 MP 4 WF 410 MICRO 2000 ECHO 453 COMPACT TR 94



DIGISTAR 250 mini SHS

CODE	Ø WIRE mm	MATERIAL	TYPE OF ROLL		Quantity per FEEDER								
CODE		WAIENIAL	ITPE OF NOLL	Н	1	L	М	Ν	0				
459250	0,6 - 0,8	Steel / FCW	Motor	1									
459251	0,8 - 1,0	Steel / FCW	Motor	1									
459261	1,0 - 1,2	Steel / FCW	Motor	1									
459260	0,8 - 1,0	Aluminium	Motor	1									
459107	0,6 - 0,8	Steel	Motor			1							
459125	0,8 - 1,0	Steel	Motor			1							
459159	1,0 - 1,2	Steel	Motor			1							
458846	1,0 - 1,2	Aluminium	Motor			1							
458903	0,6 - 0,8	Steel	Motor		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						
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						2				
458978	0,8 - 1,0 twin	Aluminium	Idle						2				
458980	1,0 - 1,2 twin	Aluminium	Idle						2				
458975	1,2 - 1,6 twin	Aluminium	Motor						2				
458985	1,2 - 1,6 twin	Aluminium	Idle						2				
459090	1,6	Flux cored	Idle				1	4	-				
459092	2,4	Flux cored	Idle				1	4					
459106	All	Steel	Idle					2					



MIG TORCHES

MIG ACCESSORIES







CEA CX - CXH TORCH

CEA C TORCH

UP/DOWN TORCH

ORDER INFORMATION

CODE			DES	SCRIPTION		
	CEA MIG TORCHES CX and CXH series					
020458	CEA Torch CX 251/3	3 m	wire Ø 0.6÷1.0		C02	260A @60% / Mix 200A @60%
020459	CEA Torch CX 251/4	4 m	wire Ø 0.6÷1.0		C02	260A @60% / Mix 200A @60%
020463	CEA Torch CX 351/4	4 m	wire Ø 0.8÷1.2		C02	300A @60% / Mix 220A @60%
020465	CEA Torch CX 351/A	3 m	wire Ø 1.0÷1.2	for Alur	minium CO2	300A @60% / Mix 220A @60%
020466	CEA Torch CX 353/4	4 m	wire Ø 0.8÷1.2		C02	340A @60% / Mix 290A @60%
020471	CEA Torch CX 451/4	4 m	wire Ø 0.8÷1.6		C02	400A @60% / Mix 300A @60%
020472	CEA Torch CXH 302/4	4 m	wire Ø 0.8÷1.2	water cooled	C02	300A @100% / Mix 250A @100%
020473	CEA Torch CXH 302/A	3 m	wire Ø 0,8÷1.2	water cooled for Alu	minium CO2	300A @100% / Mix 250A @100%
020479	CEA Torch CXH 402/4	4 m	wire Ø 0.8÷1.6	water cooled	C02	500A @100% / Mix 450A @100%
020480	CEA Torch CXH 402/A	3 m	wire Ø 1.0÷1.6	water cooled for Alu	iminium CO2	500A @100% / Mix 450A @100%
020481	CEA Torch CXH 502/4	4 m	wire Ø 1.0÷1.6	water cooled	C02	500A @100% / Mix 500A @100%
	CEA MIG TORCHES WITH CONSUMABLE	ES SIMILAR T	O 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 6	Sp. 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 6	Sp. for Convex Mobile
	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 orde	ered w. 031107	7 or 031113)
020448	Push Pull Torch PP 401 D PLUS	8 m 24 V	wire Ø 0,8÷1,2	water cooled (to be orde	ered w. 031107	7 or 031113)
031107	Push Pull Synchronizer PC Board KIT (to	o be ordered	with the Push pu	Ill torch)		
031113	Push Pull Syncronizer PC Board KIT 24	/ 42 V (to be	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 VP2
020499	BINZEL Torch MB 36 KD	4 m	UP/DOWN											•
020498	BINZEL Torch MB 36 KD	4 m	UP/DOWN 6p. fc	or Convex Mobile		٠								
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					٠					٠
020432	BINZEL Torch ABIMIG Grip W 555 D	4 m	wire Ø 0,8÷1,6	water cooled UP/DOWN 6p.		٠								
	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)					٠		•	•	٠	٠
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)					٠		•	•	٠	٠
031107	Push Pull Synchronizer PC Board KIT	Г											•*	•*
031113	Push Pull Synchronizer PC Board KIT	24/42 V			1				٠		•		٠	٠

* for QF4, HT5



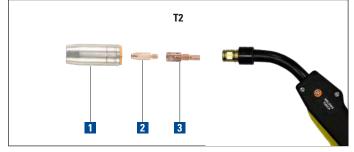
DOWNLOAD THE FULL TORCHES CATALOGUE

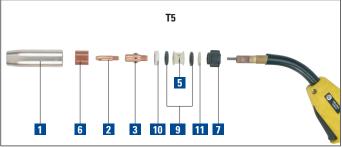


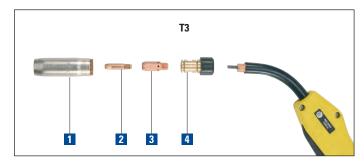


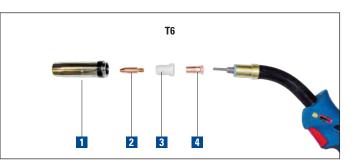
CONSUMABLES FOR MIG/MAG TORCHES











ORDER INFORMATION

		T1	T2			T	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 / Q.TY
1	GAS NOZZLES														
486120	Gas Nozzle				•			٠							1
486121	Gas Nozzle						٠								1
486137	Gas Nozzle														1
486122	Gas Nozzle								٠		•				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		٠												1
486031	Cone shaped Gas Nozzle														1
486034	Cone shaped Gas Nozzle														1
486149	Cylindric gas nozzle														1
486155	Cylindric gas nozzle										٠				1
486184	Narrow Cone shaped Gas Nozzle														1
486210	Narrow Cone shaped Gas Nozzle		٠												1
486030	Narrow Cone shaped Gas Nozzle														1
486033	Narrow Cone shaped Gas Nozzle														1

DESCRIPTION DESCRIPTION Set / 27*			T1	T2			1	٢3				T4		T5	T6	
1800 100 100 100 100 4807 400 0.00 0.00 0.00 0.00 4807 400 0.00 0.00 0.00 0.00 4807 400 0.00 0.00 0.00 0.00 4807 400 0.00 0.00 0.00 0.00 44980 0.00 0.00 0.00 0.00 0.00 44980 0.00 0.00 0.00 0.00 0.00 0.00 44980 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 44980 0.00<	CODE	DESCRIPTION	C15	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	CH 301 - CXH 302	CH 401 - CXH 402	DH 411	CH 501 - CXH 502	AB W 555 D	SET / Q.TY
4007 0.0 mm Contact Tip 0 0 0 44498 0.0 mm Contact Tip 0 0 0 0 44498 0.0 mm Contact Tip 0 0 0 0 0 44898 0.0 mm Contact Tip 0	2	CONTACT TIPS														
46070 0.0.8 mm Contact Tip 0.0 454708 0.0.8 mm Contact Tip 0.0 45478 0.0.8 mm Contact Tip 0.0 45489 0.0.8 mm Contact Tip 0.0 45489 0.0.8 mm Contact Tip 0.0 45499 0.0.8 mm Contact Tip 0.0 45498 0.0.8 mm Contact Tip 0.0 45	486171															
46489 0.0 mm contact Tip 0 0 00 48499 0.0 mm contact Tip 0 0 00 48490 0.0 mm contact Tip 0 0 00 48490 0.0 mm contact Tip 0 0 00 48490 0.0 mm contact Tip 0 0 0 00 48490 0.0 mm contact Tip 0 0 0 0 0 48490 0.0 mm contact Tip 0 0 0 0 0 0 0 48490 0.0 mm contact Tip 0												 				
44-78 0.0.0.0000000000000000000000000000000			•													
66899 0.0.8 nm Contact Tip 0 0 00 64809 0.0.8 nm Contact Tip 0 0 00 64809 0.0.8 nm Contact Tip 0 0 00 64809 0.0.8 nm Contact Tip 0 0 0 0 64809 0.0.8 nm Contact Tip 0 0 0 0 0 64809 0.0.8 nm Contact Tip 0																-
64820 0 8.0 mm Contact To - 0x-0x-0x 0 00 64809 0 0.0 mm Contact To - 0x-0x-0x 0 0 0 64809 0 0.0 mm Contact To - 0x-0x-0x 0 0 5 64809 0 0.0 mm Contact To - 0x-0x-0x 0 0 5 64907 0 0.0 mm Contact To - 0x-0x-0x 0 0 0 5 64907 0 0.0 mm Contact To - 0x-0x-0x 0 0 0 0				-				•								
64879 0.4.9 mm Cantal Tip 0.0-2-7 0 0 00 64899 0.4.8 mm Cantal Tip 0.0-2-7 0 0 0 5 64899 0.4.8 mm Cantal Tip 0.0-2-7 0 0 0 0 5 64848 0.4.8 mm Cantal Tip 0.0-2-7 0			-	•								 				
64895 0.0.4 mm Contact Tip - 0x 0x 3/r 0 5 64497 0.0.4 mm Contact Tip - 0x 0x 3/r 0 0 5 64497 0.0.4 mm Contact Tip - 0x 0x 3/r 0 0 0 0 64498 0.0 mm Contact Tip - 0x 0x 3/r 0 0 0 0 0 64498 0.0 mm Contact Tip - 0x 0x 3/r 0					•										-	
64680 0.0.8 mm Contract Tip - 0x-0-27 0			•									1 1 1				
64587 0.0.8 mm Context Tip - Cu-Cr2 0 0 0 64583 0.10 mm Context Tip 0 0 0 64583 0.10 mm Context Tip 0 0 0 64583 0.10 mm Context Tip 0 0 0 0 64587 0.10 mm Context Tip 0 0 0 0 0 64588 0.10 mm Context Tip 0				-												
04.98 mm Catabat Tip - Cu-Cr2 0 0 0 0 04.993 0 0.10 mm Catabat Tip 0 0 0 0 0 04.975 0 0.10 mm Catabat Tip 0						-			-							
64533 9.0 mm Contact Tip 0 0 00 64575 9.0 mm Contact Tip 0 0 00 64587 0.0 mm Contact Tip 0 0 0 0 64687 0.0 mm Contact Tip 0 0 0 0 0 64687 0.0 mm Contact Tip 0.0 Cr27 0 0 0 0 0 64584 0.0 mm Contact Tip 0.0 Cr27 0			-							-		1				
48070 0.10 mm Contact Tip 0 <td></td> <td>-</td> <td></td>															-	
195987 0.0 mm Context Tip 0 0 0 0 0 464919 0.0 mm Context Tip 0 0 0 0 0 464821 0.0 mm Context Tip 0 0 0 0 0 0 464826 0.0 mm Context Tip 0 0 0 0 0 0 0 0 464826 0.0 mm Context Tip 0			•													
48881 0.0 nm Contact Tip 0 0 0 0 46481 0.10 nm Contact Tip 0.0 - C-27 0 0 0 0 46486 0.10 nm Contact Tip 0.0 - C-27 0 0 0 0 0 46487 0.10 nm Contact Tip 0.0 - C-27 0																
49807 91.0 mm Contact Tip - Cu-Cr-2r 9												1				
101 mm Contact Tip - 0.4-0-2r 1 <t< td=""><td>454821</td><td>Ø 1,0 mm Contact Tip</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td>10</td></t<>	454821	Ø 1,0 mm Contact Tip										1				10
194844 010 mm Contact Tip - Cu-C-2r 0 0 0 00 48697 010 mm Contact Tip - Cu-C-2r 0 0 00 00 48698 010 mm Contact Tip - Cu-C-2r 0 0 00 00 48698 010 mm Contact Tip for Al 0 0 00 00 48698 012 mm Contact Tip for Al 0 0 0 00 00 454846 012 mm Contact Tip 0 0 0 0 00 00 454846 012 mm Contact Tip 0 0 0 00 00 00 454847 012 mm Contact Tip 0 0 0 0 00 00 454848 012 mm Contact Tip<	486181	Ø 1,0 mm Contact Tip - Cu-Cr-Zr										1				10
48895 01.0 mm Contact Tip - Cu-C-2r 0 0 0 464825 01.0 mm Contact Tip for Al 0 0 0 0 454856 01.0 mm Contact Tip for Al 0 0 0 0 0 454856 01.2 mm Contact Tip 0	454876	Ø 1,0 mm Contact Tip - Cu-Cr-Zr														5
164823 0.10 mm Contact Tip - Cu-C-2r 0 0 00 486203 0.12 mm Contact Tip for Al 0 0 00 464868 0.12 mm Contact Tip 0 0 00 464869 0.12 mm Contact Tip 0 0 00 464863 0.12 mm Contact Tip 0 0 0 00 464863 0.12 mm Contact Tip 0 0 0 0 0 464863 0.12 mm Contact Tip 0 0 0 5 5 454864 0.12 mm Contact Tip Cu-Cr-Zr 0	454844	Ø 1,0 mm Contact Tip - Cu-Cr-Zr														5
48203 0 10 mm Contact Tip for Al 0 0 0 0 454885 0 12 mm Contact Tip 0 0 0 0 0 45495 0 12 mm Contact Tip 0 0 0 0 0 0 45495 0 12 mm Contact Tip 0																
454851 0 10 mm Contact Tip for Al 0																
449958 0 12 mm Contact Tip 0 </td <td></td> <td></td> <td></td> <td>•</td> <td></td>				•												
458485 0.12 mm Contact Tip 0 10 46893 0.12 mm Contact Tip 0 10 46893 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 10 454825 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 5 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 5 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 0 5 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 0 0 0 454825 0.12 mm Contact Tip for Al 0 </td <td></td> <td>•</td> <td></td>															•	
48693 0.12 mm Contact Tip 0 10 454822 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 10 454957 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 5 454846 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 5 454846 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 5 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 10 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 10 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 10 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 0 10 454827 0.16 mm Contact Tip - 0 0 0 10 454828 0.16 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 454827 0.16 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 454828 0.16 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 454827 0.16 mm Contact Tip - Cu-Cr-Zr 0 0 10 0 454827 0.1			-	-			•	•						•		
454822 0 12 mm Contact Tip 0 10 46499 0 12 mm Contact Tip - Cu-Cr-Zr 0 0 45497 0 12 mm Contact Tip - Cu-Cr-Zr 0 0 45486 0 12 mm Contact Tip - Cu-Cr-Zr 0 0 0 45486 0 12 mm Contact Tip - Cu-Cr-Zr 0 0 0 0 454828 0 12 mm Contact Tip for Al 0 0 0 0 0 454828 0 12 mm Contact Tip for Al 0<						•			•							
486199 0.12 mm Contact Tip Cu-Cr-Zr 0 0 454957 0.12 mm Contact Tip Cu-Cr-Zr 0 0 5 454866 0.12 mm Contact Tip Cu-Cr-Zr 0				•												
454957 0.12 mm Contact Tip - Cu-Cr-Zr 0 5 454846 0.12 mm Contact Tip - Cu-Cr-Zr 0 10 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 10 454826 0.12 mm Contact Tip - Cu-Cr-Zr 0 10 454826 0.12 mm Contact Tip for Al 0 10 454826 0.12 mm Contact Tip Or AL 0 10 454827 0.12 mm Contact Tip 0 0 10 454828 0.12 mm Contact Tip 0 0 10 454827 0.16 mm Contact Tip 0 0 0 5 454827 0.16 mm Contact Tip 0 0 0 5 454827 0.16 mm Contact Tip 0 0 0 0 0 454827 0.16 mm Contact Tip or Cu-Cr-Zr 0 0 0 0 0 0 454828 0.20 mm Contact Tip or Al 0					-							 			-	
454846 0 12 mm Contact Tip - Cu-Cr-Zr 0 10 454826 0 12 mm Contact Tip - Cu-Cr-Zr 0 10 454825 0 12 mm Contact Tip for Al 0 10 454825 0 12 mm Contact Tip for Al 0 0 10 454988 0 15 mm Contact Tip 0 0 0 10 454983 0 15 mm Contact Tip 0 0 0 0 10 454927 0 16 mm Contact Tip - Cu-Cr-Zr 0 0 0 5 5 454823 0 16 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 10 454823 0 16 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 10 455168 0 2.0 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 10 455167 0 2.0 mm Contact Tip - Cu-Cr-Zr 0 0 10 10 10 455168 0 2.0 mm Contact Tip - Cu-Cr-Zr 0 0 10 10 10 10 10 10 10 10 12220 Gas Diffuser 10 10 12220 <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td> <td>•</td> <td></td> <td>•</td> <td>•</td> <td></td> <td></td>		· · · · · · · · · · · · · · · · · · ·					•	•			•		•	•		
488205 0 12 mm Contact Tip for Al 0 10 454825 0 12 mm Contact Tip 0 10 454938 0 16 mm Contact Tip 0 10 454937 0 16 mm Contact Tip 0 0 454823 0 16 mm Contact Tip 0 5 454827 0 16 mm Contact Tip - Cu-Cr-Zr 0 0 5 454823 0 16 mm Contact Tip - Cu-Cr-Zr 0 0 10 454823 0 16 mm Contact Tip - Cu-Cr-Zr 0 0 10 45688 0 2.0 mm Contact Tip for Al 0 0 10 455168 0 2.0 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 455168 0 2.0 mm Contact Tip - Cu-Cr-Zr 0 0 10 10 455168 0 2.0 mm Contact Tip - Cu-Cr-Zr 0 0 1 10 42320 Gas Diffuser 0 1	454846															5
454852 0 1,2 mm Contact Tip for Al 0 10 454989 0 1,6 mm Contact Tip 0 0 10 454998 0 1,6 mm Contact Tip 0 0 10 454997 0 1,6 mm Contact Tip 0 0 0 10 454987 0 1,6 mm Contact Tip 0 0 0 5 454827 0 1,6 mm Contact Tip 0 0 10 454853 0 1,6 mm Contact Tip 0 0 10 455168 0 2,0 mm Contact Tip 0 0 10 455167 0 2,0 mm Contact Tip 0 0 10 455168 0 2,0 mm Contact Tip 0 0 10 455167 0 2,0 mm Contact Tip 0 0 10 455167 0 2,0 mm Contact Tip 0 0 1 42321 0 8a Diffuser 0 1 1 423220 Gas Diffuser 0 1 1 423422 Gas Diffuser 1 1 1 423421 Gas Diffuser 1 1 1	454826	Ø 1,2 mm Contact Tip - Cu-Cr-Zr														10
454998 0 1,6 mm Contact Tip 10 454998 0 1,6 mm Contact Tip 10 454997 0 1,6 mm Contact Tip 5 54827 0 1,6 mm Contact Tip 5 54827 0 1,6 mm Contact Tip 0 454853 0 1,6 mm Contact Tip 0 454853 0 1,6 mm Contact Tip 0 455168 0 2,0 mm Contact Tip 0 45220 Gas Diffuser 0 423220 Gas Diffuser 0 423220 Gas Diffuser 0 423221 Gas Diffuser 0 423222 Gas Diffuser 0 423220 Gas Diffuser 1 423221 Gas Diffuser 1 42322 Gas Diffuser 1 42321 Gas Diffuser 1 42322 Gas Diffuser 1 423421 Gas Diffuser 1	486205	Ø 1,2 mm Contact Tip for Al														10
454823 0 1,6 mm Contact Tip 0.0 cmm Contact Tip <												 				
454997 0 1,6 mm Contact Tip - Cu-Cr-Zr 5 454827 0 1,6 mm Contact Tip - Cu-Cr-Zr 0 10 454863 0 1,6 mm Contact Tip or Al 0 10 455168 0 2,0 mm Contact Tip - Cu-Cr-Zr 0 0 10 455167 0 2,0 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 455167 0 2,0 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 455167 0 2,0 mm Contact Tip - Cu-Cr-Zr 0 0 0 10 423220 Gas Diffuser 0 0 1 1 423221 Gas Diffuser 0 0 1 1 423222 Gas Diffuser 0 1 1 1 42322 Gas Diffuser 0 1 </td <td>-</td> <td></td> <td>•</td> <td></td> <td></td>	-													•		
454827 0 1,6 mm Contact Tip - Cu-Cr-Zr 10 454853 0 1,6 mm Contact Tip for Al 0 10 455166 0 2,0 mm Contact Tip - Cu-Cr-Zr 0 5 3 GAS DIFFUSERS 1 1 423220 Gas Diffuser 1 1 423221 Gas Diffuser 1 1 423220 Gas Diffuser 1 1 423221 Gas Diffuser 1 1 423220 Gas Diffuser 1 1 423218 Gas Diffuser 1 1 423219 Gas Diffuser 1 1 423218 Gas Diffuser 1 1 423219 Gas Diffuser 1 1 423219 Gas Diffuser 1 1 423217 Gas Diffuser 1 1 423423 Ceramic Gas Diffuser 1 1 423424 Gas Diffuser 1 1 423425 Gas Diffuser 1 1 423420 Gas Diffuser 1 1 452220										-					•	
454853 0 1,6 mm Contact Tip for Al 0 10 455168 0 2,0 mm Contact Tip 0 0 10 455167 0 2,0 mm Contact Tip - Cu-Cr-Zr 0 0 5 3 GAS DIFFUSERS 0 1 1 423220 Gas Diffuser 0 1 1 423221 Gas Diffuser 0 1 1 423228 Gas Diffuser 0 1 1 423218 Gas Diffuser 0 1 1 455445 Gas Diffuser 0 1 1 455445 Gas Diffuser 0 1 1 423217 Gas Diffuser 0 1 1 423423 Ceramic Gas Diffuser 0 1 1 423420 Gas Infuser 0 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>•</td><td>•</td><td></td><td></td></t<>													•	•		
455168 0 2,0 mm Contact Tip 0 10 455167 0 2,0 mm Contact Tip - Cu-Cr-Zr 0 0 5 3 GAS DIFFUSERS 0 1 423220 Gas Diffuser 0 1 423221 Gas Diffuser 0 1 423222 Gas Diffuser 0 1 423221 Gas Diffuser 0 1 423222 Gas Diffuser 0 1 423221 Gas Diffuser 0 1 423222 Gas Diffuser 0 1 423223 Gas Diffuser 0 1 423218 Gas Diffuser 0 1 423219 Gas Diffuser 0 1 423217 Gas Diffuser 0 1 423423 Ceramic Gas Diffuser 1 1 423424 Gas Diffuser 0 1 423420 Gas Diffuser 1 1 423420 Gas Diffuser 1 1 452220 Gas nozzle support 1 1 452												-				
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ORDER INFORMATION

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																	10	
CODE	DESCF	RIPTION			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	CH 301 - CXH 302	CH 401 - CXH 402	DH 411	CH 501 - CXH 502	AB W 555 D	SET / Q.TY
5 (OTHER																	
424391	Spacer																	1
6 (OTHER																	
407516	Insulation bush																	1
7 (OTHER															1	1	
430788 l	Locknut		·														1	1
8 (OTHER											1						
458327	Insulating washer											1				1		1
	Insulating washer											1				1	1	1
	OTHER																	
-	Seal																	1
	OTHER																	
	Insulating washer																	1
	OTHER																	
-	Pressure washer																	1
-	LINER AND LINER LOCKIN	IG COL	LETS															
	Liner locking collet				•	•		•		•	•	•			•	•		1
	Liner locking collet Ø 4.0				-	-		-		-								1
	Liner locking collet Ø 4.7															 	•	1
	Liner	3 m	for wire Ø 0.6÷0.8		•	•	•					1				 	•	1
	Liner	3 m	for wire Ø 1.0÷1.2		-					•		 				 		1
	Liner	3 m	for wire Ø 1.0÷1.2		•	•	•			-							•	1
	Liner	3 m	for wire Ø 1.0÷1.2		-	-	-					1				 	-	1
	Liner	3 m	for wire Ø 1.0÷1.2							•								1
	Liner	3 m	for wire Ø 1.0÷1.2							•				•				1
			for wire Ø 1.0÷1.2				•							•			•	1
	Carbon teflon / Bronze liner Liner	3 m					-										•	1
		3 m	for wire Ø 1.2÷1.6											•				
	Liner	3 m	for wire Ø 1.2÷1.6									1 1 1				 		1
	Liner	3 m	for wire Ø 1.4÷1.6									-					•	1
	Carbon teflon liner	3 m	for wire Ø 1,6 Al														•	1
	Liner	3 m	for wire Ø 2.0÷2.4						-			_		•		 	-	1
	Liner	4 m	for wire Ø 0.6÷0.8			•	•		•			•					•	1
	Liner	4 m	for wire Ø 0.6÷1.0								•						-	1
	Liner	4 m	for wire Ø 1.0÷1.2				•		•				•			1 1 1	•	1
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	Liner	4 m	for wire Ø 1.2÷1.6												•			1
	Liner	4 m	for wire Ø 1.2÷1.6											•		•		1
	Liner	4 m	for wire Ø 1.4÷1.6														•	1
	Carbon teflon liner	4 m	for wire Ø 1.6 Al														•	1
	Liner	4 m	for wire Ø 1.6÷2.4															1
	Carbon teflon / Bronze	4 m	for wire Ø 0.8÷1.0 Al						•			•	•	•	•	٠		1
432416	Carbon teflon / Bronze	4 m	for wire Ø 1.2÷1.6 Al															1

WATER COOLERS

MIG ACCESSORIES



IR 14



HR 32 HR 30 HR 42-LC Reinforced Pump



HR 31 HR 41-LC Reinforced Pump

CODE	DESCRIPTION	CONVEX MOBILE	CONVEX	Q YARD	DIGITECH 3200 VP2	DIGITECH VP2 3300 / 4000 / 5000	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			≋				

INTERCONNECTING CABLES MIG ACCESSORIES





ANALOGIC INTERCONNECTING CABLES

DIGITAL INTERCONNECTING CABLES

CODE	DESCRIPTION	MAXI I	MAXI Q	QYARD	QUBOX	DIGITECH VP2	MAXI
010930	1,2 m Air cooled Interconnecting cable Power source-Wire feeder						٠
010935	5 m Air cooled Interconnecting cable Power source-Wire feeder						•
010940	10 m Air cooled Interconnecting cable Power source-Wire feeder	٠					٠
020894	20 m / 70 mm ² Air cooled						٠
020845	30 m / 70 mm ² Air cooled	٠					٠
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		٠	•	•	•	
010864	4 m Air cooled Interconnecting cable Power source-Wire feeder		٠	٠	٠	٠	
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder		٠	٠	٠	•	
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder		٠	٠	٠	•	
010871	20 m / 70 mm ² Air cooled		•	•	•	•	
010869	30 m / 70 mm ² Air cooled		٠	٠	•	•	
010872	40 m / 70 mm ² Air cooled		٠	٠	٠	•	
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			≋		≋	
010876	30 m / 70 mm ² Water cooled for with 032105 - HR 41-LC			≋		≋	





TROLLEYS FOR MIG EQUIPMENT

MIG ACCESSORIES











VT 101

WK 2



CT 45

WK 3



CT 70

CT 75

CT 72

CODE	DESCRIPTION	TREO TREOSTAR	CONVEX MOBILE	CONVEX	Q YARD	DIGITECH VP2
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 cylinder (and autotransformer)					
344013	Accessory BOX KIT (to be ordered with HR32)					
449478	Adaptor support plate for CONVEX MOBILE mounted on CT401					

GROUND CABLES

MIG ACCESSORIES



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 ("MINI" Type)

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 spatterd 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°C



TIG TORCHES



CEA TXA/TXH TORCHES



CEA TXA/TXH UP/DOWN TORCHES



CEA RTX TORCHES





Kit Button / Potentiometer

Kit Button / UP/DOWN

DOWNLOAD THE FULL TORCHES CATALOGUE



ORDER INFORMATION

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 mm ² 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 Tungst	ten electrode

CONSUMABLES FOR TIG TORCHES





DESCRIPTION PA PA PA PA <				:				TI	G TORO	CH						
1 CHANC NUMBER 1 <th1< th=""> 1 <th< td=""><td>CODE</td><td>DECODIDITION</td><td>٩9</td><td>TX 9</td><td>1X1</td><td>(A 1)</td><td>TX 26</td><td>A 26</td><td></td><td>A 27</td><td>H 19</td><td>H 18</td><td></td><td>H 20</td><td></td><td></td></th<></th1<>	CODE	DECODIDITION	٩9	TX 9	1X1	(A 1)	TX 26	A 26		A 27	H 19	H 18		H 20		
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46990 Control coole (3 - m. 0) (3 nm) 0	1															
46000 Cranic nocle (3-4) 4,5 mm •																1
deboty cernic nozle 65-int 0 a mm i			-	•										•	-	· · · · · · · · · · · · · · · · · · ·
480000 Coranic nozde Go: nit 0 0 mm 0			-				•	•	•	•	•	•	•			
48000 Carmic coords G2:10. D0 mm 0			•	•										•	•	
40000 (comic node 6d, int 01 mm) 0 <	486069	Ceramic nozzle Gr.5 - int. Ø 8 mm														1
88994 Generic noze 6.2 · int. 01 mm 0	486093	Ceramic nozzle Gr.6 - int. Ø 10 mm														1
48000 Cermic sorde 62 - int. 31 mm 1 0	486070	Ceramic nozzle Gr.6 - int. Ø 10 mm														1
49007 Cleamin norzhe Graft - Juk DZ mm Image: Semi morzhe Gra	486094	Ceramic nozzle Gr.7 - int. Ø 11 mm														1
1 COLLET HOLDERS 1 1 1 1 1 45865 Callet holder 0 10 mm 0 0 0 0 0 0 1 45865 Callet holder 0 10 mm 0	486071	Ceramic nozzle Gr.7 - int. Ø 11 mm														1
2 COLLET HODERS COLLET HODERS Collet holder 010 mm	486072	Ceramic nozzle Gr.8 - int. Ø 12 mm														1
49896 Colle holder 0 10 mm 0 </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>					-	-					-					
42905 Collet holder 01 m 0 <td></td> <td>1</td>																1
48986 Callet holder 0 L6 mm 0<			-	•										•	-	
458021 Collet holder 0 16 mm 0			-	-	•	•									-	· · · · · · · · · · · · · · · · · · ·
431937 Collet holder 0.2.4 mm I			•	•										•	•	
426022 Collet holder 0.2.4 mm Image: collet holder 0.4.4 mm Image: collet holder	426021	Collet holder Ø 1,6 mm														
426023 Collet holder 0.3.2 mm I	451987	Collet holder Ø 2,4 mm														1
451882 Collet holder 9 32 mm I	426022	Collet holder Ø 2,4 mm														1
428024 Collet holder 0 4,0 mm Image: Collet holder 0 4,0 mm Image: Collet holder 0 4,0 mm Image: Collet 0 10 mm Image: Collet 0	426023	Collet holder Ø 3,2 mm														1
3 COLLETS Collet 0 10 mm 0	451988	Collet holder Ø 3,2 mm														1
3 COLLETS Collet 0 10 mm 0	426024	Collet holder Ø 4.0 mm														1
450785 Callet 0 10 mm Image: collet 0 10 mm Image: colet 0 10 mm Image: collet 0 10 mm Ima																
450733 Callet 0 1.0 mm Image: Solution 0 in the solution of the s																1
450786 Collet 01.6 mm Image: colet 01.6 mm Image: collet 01.6 mm Ima		* · · · · · · · · · · · · · · · · · · ·	-	•										-	-	· · · · · · · · · · · · · · · · · · ·
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450795 Collet 0.2,4 mm 0 0 0 0 0 0 0 0 0 0 0 0 1 450796 Collet 0.3,2 mm 0 0 0 0 0 0 0 0 0 0 0 1 450786 Collet 0.3,2 mm 0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td></td<>						•						•				
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436141 Insulating ring Insulatin	450797	Collet Ø 4,0 mm														1
436141 Insulating ring Insulatin	4	NOZZLES SIDE INSULATION RINGS														
436148 Insulating ring Image: Constraint on the constraint of the constraint on the constraint	436141															1
5 SEALS 6 6 6 6 6 6 6 1 433480 Seal 6 6 6 6 6 6 1 433482 Seal 6 6 6 6 6 6 1 6 CAPS 6 6 6 6 6 6 6 6 1 10566 Short cap 6 6 6 6 6 6 1 10577 Long cap 6 6 6 6 6 6 6 1 10560 Long cap 6 6 6 6 6 6 6 1 480097 GAS LENS Ceramic nozzle Gr. 5 - int.0 8 mm 6 6 6 6 6 1 480097 GAS LENS Ceramic nozzle Gr. 7 - int.0 10 mm 6 6 6 6 6 1 480098 GAS LENS Ceramic nozzle Gr. 7 - int.0 11 mm 6 6 6 6 6 1 480066 GAS LENS Ceramic nozzle Gr. 7 - int.0 11 m				-										-	-	
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TROLLEYS FOR TIG EQUIPMENT

TIG ACCESSORIES











CT 75



VT 101

VT 200 with adaptor support plate

CT 401

CT 70

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 equipement and cylinder							
234931	Trolley CT 401 for power source, cylinder	•		٠	٠			
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)							٠
234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)				1	٠		•
234932	Trolley CT 80 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)			1	1	1		•
031166	Adaptor support plate for MATRIX 4200 HF in used with CT 401 and HR 30/32							

GROUND CABLES



16 / 25 mm² / 3 m Ground cable



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 mano-meter

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

WATER COOLERS

TIG ACCESSORIES









HR 22 / HR 3	23 HRX 20 / I	HRX 30	HR 30 / HR 32		HRX 5	2								
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 H	IR 23 with MATRIX 4200 H	IF			*								

OTHER ACCESSORIES

TIG ACCESSORIES



PR7

CODE





DFX1 / DFX5 Dust Filter UtraLUX



CD 6/8



CL-1100



KIT A6



TSA1 TIG Simple Automation KIT

	REMOTE CC	NTROLS				
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 Connection 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					

DESCRIPTION



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







DESCRIPTION

Roll bar protection kit



Carrying Belt Kit



Rainbow Bag

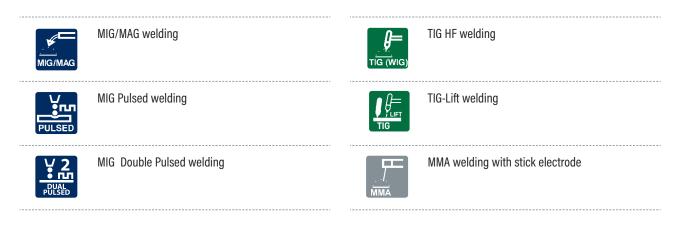
ORDER INFORMATION

CODE

Remote control

	ACCESSORY KIT					
460281	3+2 m 16 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ²					
460286	4+3 m 25 mm² 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					
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



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
CCCCCV Constant Current and Constant Voltage	High Resolution digital display
Constant Current	Step adjustment
Constant Voltage	TIG pulsation
DC + -	AC Alternative and direct current output
Synergic adjustment	Shunt Adjustment
Voltage reduction device	



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Technical characteristics might change wiyhout notice.

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