



arc welding catalogue

2025



WELDING TOGETHER



CEA arc welding catalogue

2025



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www.ceaweld.com



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

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

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

CEA has three divisions:









CERTIFICATION AND STANDARDS



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



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

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



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

 IEC 60974-1
 EN 60974-1
 Welding power sources.

 IEC 60974-2
 EN 60974-2
 Liquid cooling systems.

 IEC 60974-3
 EN 60974-3
 Arc striking and stabilizing devices.

 IEC 60974-5
 EN 60974-5
 Wire feeders.

 IEC 60974-7
 EN 60974-7
 Torches.

 IEC 60974-10
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 Electromagnetic compatibility (EMC).



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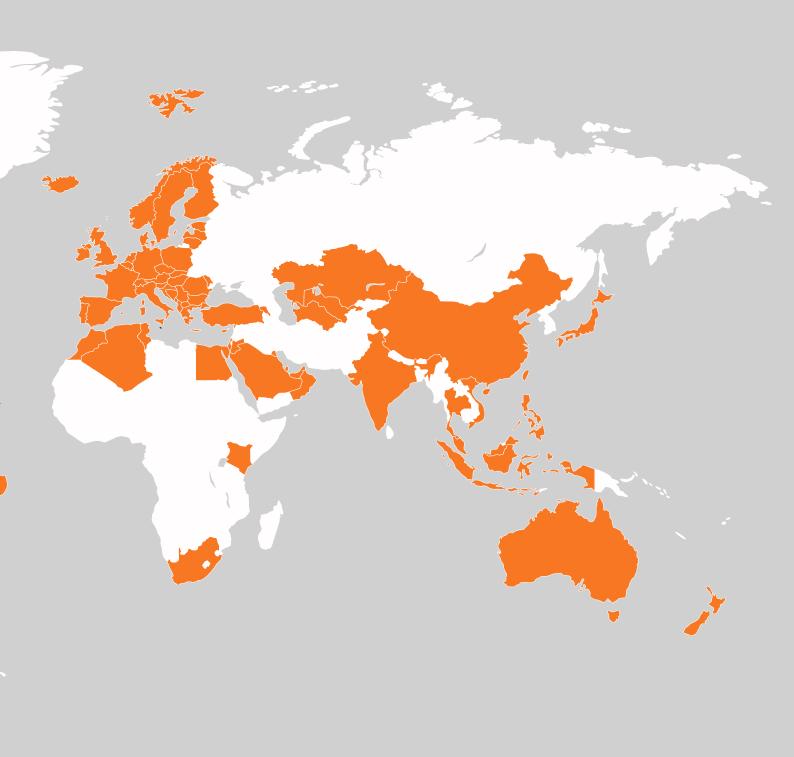
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A Global Presence

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 promote a more sustainable development.

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

Carbon neutral

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

High efficiency technology

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

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

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





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

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

Innovation and Technology

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







Bridge 4 Companies





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













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

With the vision. ARC, the electric arc is monitored continuously by the microprocessor which manages the welding process in real time: all the parameters are processed and modified

vision.ARC

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

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

The welding process is always under control from arc striking, by Wire Start Control (WSC), to when the arc is interrupted by Burn-Back Control.

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



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

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

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

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

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

vision.ARC2

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 penetration on

first root pass

medium and large

thickness material

PULSED MIG WELDING VISION ARCZ

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

at a far higher

speed

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

welding

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

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

CEA SPECIAL WELDING PROCESSES





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

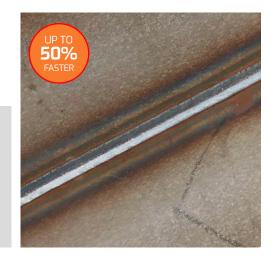
and finishing job. vision.ULTRASPEED allows to replace short-arc and mixed-arc MIG/MAG with a remarkable increase in the welding job completion.

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 beveling preparation prior to welding
- · Easy welding process, easy to learn and use
- No longer obligation of employing highly qualified personnel as imposed by TIG and MMA processes
- Welding process continuity
- Vertical up or vertical down welding with perfect edge joints

APPLICATIONS

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





vision.POWER

HIGH PENETRATION MIG/MAG WELDING

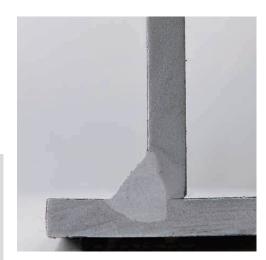
vision.POWER is the innovative MIG/MAG process developed by CEA for welding medium large thickness steel and non ferrous materials (Aluminium, copper, etc.), whenever high penetration is required. By means of this special welding process, the arc cone becomes narrower, therefore its pressure is concentrated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

ADVANTAGES

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

APPLICATIONS

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







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 affect this type of welding in an easy and economical way too, with a far greater travel speed if compared to the traditional and typical triangular welding up technique, the so called "Christmas tree".

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

ADVANTAGES

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

APPLICATIONS

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





vision.PULSE-RUN

HIGH SPEED PULSED WELDING

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

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

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

ADVANTAGES

- Faster welding speed (40% more versus traditional MIG pulse)
- · 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
- · Less consumption of both filler materials and shielding gas
- · Less fume emission

APPLICATIONS

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



SPECIAL WELDING CURVES



EXTRA CURVE PACKAGE

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



TREO / TREOSTAR PULSE WELDING PERFORMANCE OVER THE EXPECTATION



TREO is 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 **TREOSTAR PULSE** 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 PULSE** 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 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 Pulse)
- Possibility of using Ø 300 mm coils by means of the Retrofit Kit (optional)





TECHNICAL DATA			TRE0 181		T	REOSTAR 2000 PULSI	E
IECHNICAL DAIA		MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA
Single phase input 50/60 Hz	V +10% -10%		230			230	
Input Power @ I2 Max	kVA	8,2	6,4	7,4	10,1	6,3	9,4
Delayed Fuse (I eff)	A		16			16	
Power Factor / cos Φ			0,67/0,99			0,64/0,99	
Efficiency Degree			0,82			0,80	
Open circuit voltage	V		80			60	
Current range	A	15 - 180	10 - 180	10 - 160	10 - 200	5 - 175	10 - 175
	A 100 %	75	75	75	100	100	90
Duty cycle at (40°C)	A 60 %	100	100	100	115	115	110
	A X %	180 (15%)	180 (15%)	150 (15%)	200 (15%)	175 (20%)	175 (10%)
Wires	Ø mm	0,6 - 1,2	-	-	0,6 - 1,2	-	-
Coil	Ø mm	200max (300*)	-	_	200max (300*)	-	-
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10 • S EN 60974-1 • EN 60974-5 • EN 60974-10 • S			974-10 - S		
Protection Class	IP		23 S			23 S	
Dimensions (L x W x H)	mm		500 X 220 X 425			500 X 220 X 425	
Weight	Kg		14,5			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

REO 181



TREOSTAR PULSE

ORDER INFORMATION

CODE	DESCRIPTION	TRE0 181	TREOSTAR 2000 PULSE
	POWER SOURCES WITH TORCH		
003852	Power Source TREO 181 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; complete with: C 15 3m CEA torch, 16 mm² / 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		
003875	Power Source TREOSTAR 2000 PULSE 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; 16 mm ² / 3 m Ground cable and rolls for wire Ø 0,6/0,8 mm ALUMINIUM KIT		
031145	Aluminium Welding Kit for C 25 3m composed by Carbon-Teflon Liner - 1 roll for wire Ø 0,8-1,0 MIG MAG WELDING TORCHES		
020458 020459	CEA Torch CX 251/3 3 m wire 0 0.6/1.0 CO2 260A @60% / Mix 200A @60% CEA Torch CX 251/4 4 m wire 0 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 420430	Retrofit kit adaptor for Ø 300 mm wire spool Complete spool cover		
236590	Metallic spool adaptor OTHER OPTION[S]		
460281 201752	3+2m 16 mm²cables with electrodeholder pincer, ground clamp, 50mm² connections brush/hammer, shield with lens Kit of 2 male 50 mm² safety connections		
	TREO 181 Suggested air cooled version with torch	•	
	TREOSTAR 2000 PULSE Suggested air cooled version with torch		•



SMART / SMARTCAR PULSE

SPECIAL DESIGN FOR AN INNOVATIVE COMPACT EQUIPMENT





SMART are a new MIG/MAG compact power source with conventional manual adjustment of the parameters, while **SMARTCAR PULSE** are a new multiprocess synergic power sources for welding in MIG/MAG, MMA and TIG with "Lift" mode characterized by an innovative user-friendly design.

SMART and **SMARTCAR PULSE** combine ergonomics and ease of use with an incredible welding quality with a precise and stable arc in all situations, which makes them perfect for all qualified welding applications, especially in metal sheet working, car body repair sector, agriculture and maintenance.

SMARTCAR PULSE because of its additional Synergic control and Pulse and Dual Pulse function, grants high quality performance on all materials and in particular on stainless steel, zinc coated and aluminium, by greatly minimizing any reworking job caused by spatters.



Innovative smart design

- New ergonomic level
- Excellent welding quality

SMART / SMARTCAR PULSE FEATURES

- Wire spool holder and feeding assembly placed in the upper part of the generator in an ergonomic position
- 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
- 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 protected by a cover (*)

(*) Only for SMARTCAR PULSE



SPECIAL WELDING PROCESS Standard included in SMARTCAR 305 PULSE



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



22

		SMART SMARTCAR F				AR PULSE	R PULSE			
TECHNICAL DATA		200	300		205			305		
		MIG/MAG	MIG/MAG	MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA	
Single phase input 50/60 Hz	V +10% -10%	230	-		230			-		
Three phase input 50/60 Hz	V +15% -15%	-	400		-			400		
Input Power @ I ₂ Max	kVA	10,1	13,3	10,1	6,3	9,4	13,3 / 11,9 PULSE	11,6	11,9	
Delayed Fuse (I eff)	A	16	16		16			16		
Power Factor / cos Φ		0,64/0,99	0,75/0,99	0,64/0,99	0,64/0,99	0,64/0,99	0,75/0,99 0,73/0,99 PULSE	0,69/0,99	0,75/0,99	
Efficiency Degree		0,80	0,86		0,80			0,86		
Open circuit voltage	V	60	60	60	60	60	60	60	60	
Current range	A	10 - 200	10 - 300	10 - 200	5 - 175	10 - 175	10 - 300 10 - 270 PULSE	5 - 300	10 - 250	
	A 100 %	100	180	100	100	90	180	180	180	
Duty avala at (40%C)	A 60 %	115	200	115	115	110	200	200	200	
Duty cycle at (40°C)	A X %	200 (15%)	300 (30%)	200 (15%)	175 (20%)	175 (10%)	300 (30%) 270 (30%) PULSE	300 (30%)	250 (35%)	
Wires	Ø mm	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2	-	-	0,6 - 1,2	-	-	
Coil	Ø mm	300	300	300	-	-	300	-	-	
Standards				EN	60974-1 • EN 6097	4-5 • EN 60974-10	• S	5		
Protection Class	IP	23 S	23 S		23 S			23 S		
Dimensions (L x W x H)	mm	960 x 4	20 x 885		960 x 420 x 885			960 x 420 x 885		
Weight	Kg	38,5	40		38,5			40		





SMARTCAR PULSE



Professional double groove feeding mechanism with 4 rolls



ORDER INFORMATION

CODE	DESCRIPTION	SM	ART	SMARTCA	R PULSE
CODE	DESCRIPTION	200	300	205	305
	POWER SOURCES				
007251	Power Source SMART 200 230V - 1 ph 4 rolls for Ø 300 mm wire spool	•			
007260	Power Source SMART 300 400V - 3 ph 4 rolls for Ø 300 mm wire spool		٠		
007253	Power Source SMARTCAR 205 PULSE 230V - 1 ph 4 rolls for Ø 300 mm wire spool			•	
007265	Power Source SMARTCAR 305 PULSE 400V - 3 ph 4 rolls for Ø 300 mm wire spool (*)				•
	(*) Vision.COLD process and ECP integrated as a standard in the SMARTCAR 305 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 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%				
021016	CEA Digitorch DX 353/4-D 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
	For other torches see mig/mag accessories page				
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE				
020568	Torch RTX 26.4 4 m - 180 A 35% (suitable for 50 / 70 mm ² safety connections)				
	GROUND CABLES				
239618	25 mm ² / 3 m Ground cable with clamp	•		•	
239601	35 mm² / 4 m Ground cable with clamp		•		•
	GAS REDUCERS				
020855	Reducer with 2 manometers	•	•	•	•
	OTHER OPTION[S]				
236590	Metallic spool adaptor				
031124	TS1 - Torch support KIT				
460286	4+3 m25 mm ² cables, electrodeholder pincer, ground clamp 50mm ² safety connections - brush/hammer - shield with lens				
460292	4+3 m 35 mm ² cables, electrodeholder pincer, ground clamp 50mm ² safety connections - brush/hammer - shield with lens				
	SMART 200 Suggested air cooled version with torch	•			
	SMART 300 Suggested air cooled version with torch				
	SMARTCAR 205 PULSE Suggested air cooled version with torch				
	SMARTCAR 305 PULSE Suggested air cooled version with torch				•



CONVEX MOBILE / CONVEX MOBILE PULSE

THE ALL-ROUNDER THAT EXCEEDS YOUR WELDING LIMITS



MIG/MAG		DUAL PULSED		
CONVE	ЕХ МОВІ	LE PUL	SE	

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, high quality welding wherever it 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 selection and recalling of the parameters and welding programs
- Built-in polarity changeover feature for most common gas and gasless wires
- Suitable for Ø 300 mm wire spools
- Professional double groove feeding mechanism with 4 rolls of Ø 37 mm.
- "Energy saving" function to operate the power source cooling fan only when necessary
- Initial and final crater control
- Possibility to use Up/Down torches





TECHNICAL DATA		CONVEX MOBILE 201 / CONVEX MOBILE 205 PULSE			CONVEX MOBILE 251 / CONVEX MOBILE 255 PULSE			
		MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA	
Single phase input 50/60 Hz	V +15% -15%		230		-	-	-	
Three phase input 50/60 Hz	V +15% -15%	-	-	-		400		
Input Power @ I2 Max	kVA	6	4,6	7,1	10	8,5	11	
Delayed Fuse (I eff)	A	16	16	16	16	10	16	
Power Factor / cos φ		0,95/0,99	0,95/0,99	0,95/0,99	0,74/0,99	0,69/0,99	0,77/0,99	
Efficiency Degree			0,84			0,89		
Open circuit voltage	V	45	45	45	60	60	60	
Current range	A	10 - 200	5 - 200	10 - 200	10 - 250	5 - 250	10 - 250	
ì	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 60974-5 • 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 trolley for power source (only CONVEX MOBILE 3ph), gas cylinder, watercooling equipment and storage



SPECIAL WELDING PROCESS

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



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

			CONVEX	MOBILE		
CODE	DESCRIPTION	201	205 PULSE	251	25	5 PULSE
		AIR	AIR	AIR W	TER AIR	WATER
	POWER SOURCES					
005000	Power Source CONVEX MOBILE 201 230V-1 ph for Ø 300 mm wire spool (ECP)	•				
005005	Power Source CONVEX MOBILE 205 PULSE 230V-1 ph for Ø 300 mm wire spool (*)		•			
004785	Power Source CONVEX MOBILE 251 400V-3 ph for Ø 300 mm wire spool (*)				₩	
004780	Power Source CONVEX MOBILE 255 PULSE 400V-3 ph for Ø 300 mm wire spool (*)				•	≋
	(*) vision.COLD process and ECP integrated as a standard					
	ALUMINIUM ROLL KIT					
030866	Aluminium Kit of Single grooved TWIN rolls (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 C02 300A @100% / Mix 250A @100%				₩ /	~ ≈
	For other torches see mig/mag accessories page					
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE					
020568	Torch RTX 26.4 4 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 Tank					~ ≈
	TROLLEY					
234931	Trolley CT 401 for power source and cylinder	•	•	•	≋ ●	≋
449478	Adaptor support plate for CONVEX MOBILE mounted on CT 401	•	•	•	≋ ●	≈
344013	Accessory BOX kit (to be ordered only with HR 32/30)					
031007	WK 2 extra-large wheels kit					
	GROUND CABLES					
239601	35 mm² / 4 m Ground cable with clamp	•	•	•	≋ ●	≋
	GAS REDUCERS					
020855	Reducer with 2 manometers	•	•	•	≋ ●	≋
020916	Reducer with flowmeter and 1 manometer					
	OTHER OPTION[S]					
460292	4+3 m 35 mm ² cables, 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 PULSE

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

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

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



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





CONVEX / CONVEX PULSE FEATURES

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





BURN-BACK CONTROL

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

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 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

TECHNICAL DATA		CO	NVEX	CONVE	(PULSE
		321	401	325	405
Three Phase input 50/60 Hz	V +10% -10%	400	400	400	400
Input Power @ I2 Max	kVA	13	17,8	17	23,7
Delayed Fuse (I eff)	A	20	25	20	25
Power Factor / cos φ		0,87/0,99	0,90/0,99	0,70/0,99	0,70/0,99
Efficiency Degree		0,87	0,87	0,87	0,87
Open circuit voltage	V	63	63	63	63
Current range	A	10 - 320	10 - 400	10 - 320	10 - 400
	A 100 %	280	300	280	300
Duty cycle at (40°C)	A 60 %	300	350	300	350
	A X %	320 (40%)	400 (40%)	320 (40%)	400 (40%)
Wires	Ø mm	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2
Coil	Ø mm	300	300	300	300
Standards			EN 60974-1 • EN 6097	4-5 • EN 60974-10 홄	
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

WATER m <th>AIR</th> <th>WATER ≈</th>	AIR	WATER ≈
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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 Æ VISION.AR vision.PULSE dual.PULSE

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





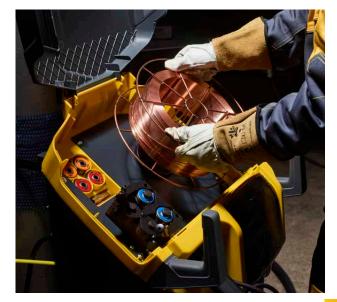
DOGMA INNOVATIVE DESIGN

- 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
- Built-in polarity changeover feature for most common gas and gasless wires (DOGMA 272 / 276)







X VISION CONTROL DISPLAY

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

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



WELDING MODE



WELDING SETTING MODE



ADVANCE JOB MANAGEMENT

J01 SYNERGIC 1		1	0.5 s	122A
J01 DOUBLE PU	I SE	I	0.3 s	155A
· · · · ·	Fe G3 SI-1 Ar 16-20% CO2 - 0.8mi	m	0.5 3	<u>⊥1</u> 2Т
J07 MANUAL		1	0.0 s	2.0 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 XV			DOGMA PULSE XV	
		272 / 272 W	322 / 322 W	402 / 402 W	276 / 276 W	326 / 326 W	406 / 406 W
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400	400	400
Input Power @ I2 Max	kVA	12,8	16,1	22,5	12,8	16,1	22,5
Delayed Fuse (I eff)	A	16	20	25	16	20	25
Power Factor / $\cos \phi$		0,74/0,99	0,67/0,99	0,69/0,99	0,74/0,99	0,67/0,99	0,69/0,99
Efficiency Degree		0,89	0,88	0,88	0,89	0,88	0,88
Open circuit voltage	V	60	63	63	60	63	63
Current range	A	10 - 270	10 - 320	10 - 400	10 - 270	10 - 320	10 - 400
	A 100 %	180	240	300	180	240	300
Duty cycle at (40°C)	A 60 %	200	270	340	200	270	340
	A X %	270 (30%)	320 (35%)	400 (35%)	270 (30%)	320 (35%)	400 (35%)
Wire	Ømm	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	21 S	21 S	21 S	21 S	21 S	21 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	49 / 58 (W)	54 / 63 (W)	57 / 66 (W)	49 / 58 (W)	54 / 63 (W)	57 / 66 (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)				≋		1			
004628	Power Source DOGMA 402 W XV water cooled 400V (4 rolls for wire Ø 1,0/1,2 mm)						≋			
	PREMIUM (vision.COLD, vision.ULTRASPEED and ECP) integrated as a standard in all DOGMA 272/322/402						1			
	ALUMINIUM 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 3m - wire: Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%	•								
020466	CEA Torch CX 353/4 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%			•		•				
021006	CEA Torch CX 353/4 Up/Down-17p 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%		≋		≋					
020479	CEA Torch CXH 402/4 4m - wire: Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%						≋			
021005	CEA Torch CXH 302/4 Up/Down-17p 4m - wire: Ø 0,8/1,2 C02 300A @100% / Mix 250A @ 100%									
021007	CEA Torch CXH 402/4 Up/Down-17p 4m - wire: Ø 0,8/1,6 C02 500A @100% / Mix 450A @ 100%									
021016	CEA Digitorch DX 353/4-D 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%									
021015	CEA Digitorch DXH 302/4-D 4m - wire: Ø 0,8/1,2 CO2 300A @100% / Mix 250A @ 100%									
021017	CEA Digitorch DXH 402/4-D 4m - wire: Ø 0,8/1,6 CO2 500A @100% / Mlix 450A @ 100%									
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8/1,2 water cooled (to be ordered with 031123)									
031123	Push Pull Synchronizer PC Board KIT 24/42 V (to be ordered with Push Pull torch)									
	For other torches see mig/mag accessories page									
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE									
020568	Torch RTX 26.4 4 m - 180 A 35%									
	GROUND CABLES									
239601	35 mm ² / 4 m Ground cable with clamp	•	≋							
239603	50 mm ² / 4 m Ground cable with clamp			•	≋	•	≋			
	GAS REDUCERS									
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋	•	≋			
	OTHER OPTION[S]									
236590	Metallic spool adaptor									
460369	WPE 1 Water Hoses Extension Kit for non-standard water cooled CEA Torch									
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						≋			

	DESCRIPTION	DOGMA PULSE XV							
CODE		276	276 W	326	326 W	406	406 W		
		AIR	WATER	AIR	WATER	AIR	WATER		
	POWER SOURCES						<u> </u>		
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)			٠					
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 already install - vision.COLD, vision.ULTRASPEED process and ECP								
	ALUMINIUM KIT								
030866	Aluminium Kit of Single grooved TWIN rolls (0: 1,0)								
030867	Aluminium Kit of Single grooved TWIN rolls (0: 1,2)								
	MIG MAG WELDING TORCHES								
020458	CEA Torch CX 251/3 3m - wire: Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%	•							
020466	CEA Torch CX 353/4 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%			•	\sim				
021006	CEA Torch CX 353/4 Up/Down-17p 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%		\sim				\sim		
020472	CEA Torch CXH 302/4 4m - wire: Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%		~ ≈		≋		\sim		
020479	CEA Torch CXH 402/4 4m - wire: Ø 0,8/1,6 water cooled C02 500A @100% / Mix 450A @100%		~	\sim	~	\sim	≋		
021005	CEA Torch CXH 302/4 Up/Down-17p 4m - wire: Ø 0,8/1,2 CO2 300A @100% / Mix 250A @ 100%			\sim		\sim	~		
021003	CEA Torch CXH 402/4 Up/Down-17p 4m - wire: Ø 0,8/1,6 CO2 500A @100% / Mix 450A @ 100%			\sim		\sim			
021007	CEA bigitorch DX 353/4-D 4m - wire: 0 0,8/1,2 CO2 340A @60% / Mix 290A @60%			\sim					
021010	CEA Digitorch DXH 332/4-D 4m - wire: 0 0,8/1,2 CO2 300A @100% / Mix 250A @100% CEA Digitorch DXH 302/4-D 4m - wire: 0 0,8/1,2 CO2 300A @100% / Mix 250A @ 100%						\leq		
021013	CEA Digitorch DXH 302/1+D 4m wire: 0 (8/1,6) CO2 500A (#100%) / Milx 250A (# 100%) CEA Digitorch DXH 402/4-D 4m - wire: 0 (8/1,6) CO2 500A (#100%) / Milx 250A (# 100%)					\sim			
020488	Push Pull Torch PP 401 D 8 m 24 V - wire Ø 0,8/1,2 water cooled (to be ordered with 031123)					\sim	<u> </u>		
031123	Push Pull Synchronizer PC Board KIT 24/42 V (to be ordered with Push Pull torch)					\sim			
	For other torches see mig/mag accessories page					\leq			
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE								
	Torch RTX 26.4 4 m - 180 A 35%								
020568	GROUND CABLES								
220601	35 mm ² / 4 m Ground cable with clamp	•	~						
239601 239603	50 mm ² / 4 m Ground cable with clamp	•	≋	•	~	•	~		
239003	GAS REDUCERS			•	≋	•	≈		
020016	Reducer with flowmeter and 1 manometer	•	~	•	~	•	~		
020916	OTHER OPTION[S]		≋	•	≋	•	≈		
000500	••								
236590	Metallic spool adaptor WPE 1 Water Hoses Extension Kit for non-standard water cooled CEA								
460369				/		/			
402275A	Cea CL-1100 cooling liquid - 5 Tank		≈		≋		≈		
	DOGMA 276 PULSE XV Suggested air cooled version with torch	•							
	DOGMA 276 W PULSE XV Suggested water cooled version with torch		≈						
	DOGMA 326 PULSE XV Suggested air cooled version with torch			•					
	DOGMA 326 W PULSE XV Suggested water cooled version with torch				≋				
	DOGMA 406 PULSE XV Suggested air cooled version with torch					•			
	DOGMA 406 W PULSE XV Suggested water cooled version with torch			1			≋		



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
- Digital ammeter/voltmeter with hold function of the last welding parameters
- 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 / WF 7

- **PROFESSIONAL WIRE FEEDING** mechanism for a precise and constant wire driving
- **DOUBLE GROOVE ROLLS** of large diameter replaceable without any tool
- WIRE SPOOLS up to Ø 300 mm
- **INSPECTION WINDOW** in the spool cover
- HK2 Hanging Kit
 - 2/4 STROKE selector switch
 - BURN-BACK and MOTOR RAMP adjustments for a precise arc striking





WF 7 FEATURES

Voltage electronic adjustment





SWF STRONG FEEDER

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



FSC - Fast Start Control

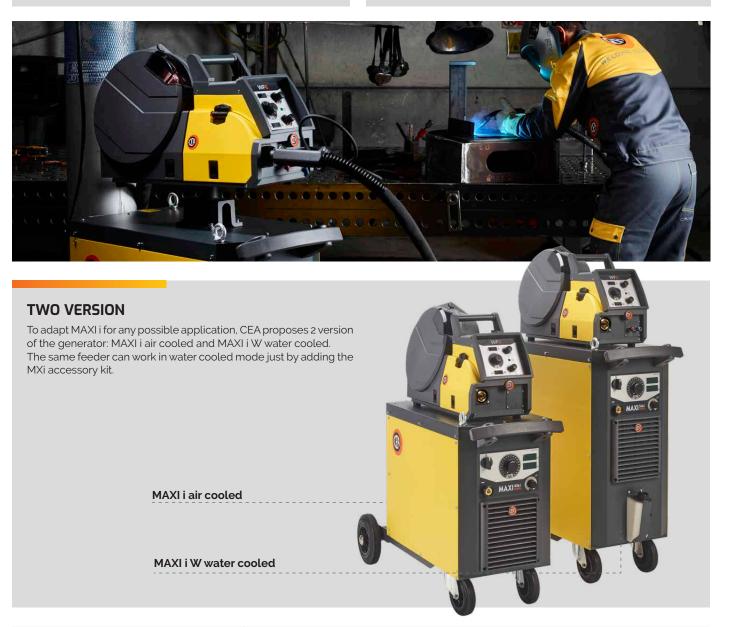
It is the innovative arc striking control that reduces drastically the ignition time. By this new technology it is possible to have a quick and perfect ignition at every start.

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

INTERCHANGEABLE WITH OLD FEEDER

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.



TECHNICAL DATA		MAXI i						
		406	406 W	506	506 W			
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400			
Input Power @ I2 Max	kVA	17	17,5	23,5	24			
Delayed Fuse (I eff)	A	16	16	20	20			
Power Factor / cos ϕ		0,92 / 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 %	280	280	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								
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	48	61	52	65			

ORDER INFORMATION

CODE	DESCRIPTION	MAXI i 406	MAXI i 406 W	MAXI i 506	MAXI i 506 W
		AIR	WATER	AIR	WATER
000170	POWER SOURCES				
006170	Power source MAXI 406 i 400 V 3 phase Power source MAXI 406 i 400 V 3 phase	•	~		
006175			≋	•	
006180	Power source MAXI 506 i 400 V 3 phase			•	
006185	Power source MAXI 506 i W 400 V 3 phase				≈
010000	INTERCONNECTING CABLES FOR WF 5 / WF 6			-	-
010930	1,2 m Air cooled Interconnecting cable Power source-Wire feeder WF 5 / WF 6	•		•	
010935	5 m Air cooled Interconnecting cable Power source-Wire feeder WF 5 / WF 6				
010940	10 m Air cooled Interconnecting cable Power source-Wire feeder WF 5 / WF 6				
010945	1,2 m Water cooled Interconnecting cable Power source-Wire feeder WF 5 / WF 6		≋		≈
010950	5 m Water cooled Interconnecting cable Power source-Wire feeder WF 5 / WF 6				
010955	10 m Water cooled Interconnecting cable Power source-Wire feeder WF 5 / WF 6				
	INTERCONNECTING CABLES FOR WF 7				
010960	1,2 m Air cooled Interconnecting cable Power source-Wire feeder WF 7				
010965	5 m Air cooled Interconnecting cable Power source-Wire feeder WF 7				
010970	10 m Air cooled Interconnecting cable Power source-Wire feeder WF 7				
010975	1,2 m Water cooled Interconnecting cable Power source-Wire feeder WF 7				
010980	5 m Water cooled Interconnecting cable Power source-Wire feeder WF 7				
010985	10 m Water cooled Interconnecting cable Power source-Wire feeder WF7				
	WIRE FEEDERS				
030637	Closed Wire Feeder WF7 4 rolls (Ø: 1,0 / 1,2) with V adjustment				
030636	Closed Wire Feeder WF 6 4 rolls (0: 1,0 / 1,2)	•	≋		≋
030635	Closed Wire Feeder WF 5 4 rolls (Ø: 1,0 / 1,2)				1
031122	HK 2 Hanging Kit				1
031009	Accessories type: "MXi" to connect water cooled interconnecting cable to the wire feeder		≋		≈
030938	Accessories IR type: "J" to connect water cooled interconnecting cable to the wire feeder (WF 5)				
031116	WK 4 standard wheels kit for MF 4, MF4 yard and QF 7 W PRO DRIVE feeder				
031007	WK 2 extra-large wheel kit				
030927	Wheels Kit for WF 5 with additional fastening plate (code 030887) to fix interconnecting cable				-
030887	Fastening plate to fix interconnecting cable to WF 5 (already included into 030924, 030927 wheels kit)				
030755	Closed Wire Feeder SWF STRONG FEEDER with Euro Connect. 4 rolls (Ø: 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 (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 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	•		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 page				
	GROUND CABLES				:
239603	50 mm² / 4 m Ground cable with clamp	•	≋	٠	≈
	GAS REDUCERS				
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋
	OTHER OPTION[S]				1
031126	Cable winding kit (Maxi I/Maxiq/Qubox)				
031124	TS1 - Torch support KIT (WF6 - WF7)				
	Extention cable for changeover polarity				
030903			≋		≈
030903 402275A	Cea CL-1100 cooling liquid - 5 Tank				. ~
402275A	Cea CL-1100 cooling liquid - 5 I Tank Metallic spool adaptor				
-	Metallic spool adaptor				
402275A	Metallic spool adaptor MAXI 406 i Suggested air cooled version with torch	•			
402275A	Metallic spool adaptor	•	*	•	

OPTIONAL KIT TO RETROFIT MAXI I AIR COOLED VERSION INTO MAXI I WATER COOLED VERSION

CODE	DESCRIPTION	MAXI i 406 Air	MAXI i 406 W WATER	MAXI i 506 Air	MAXI i 506 W WATER
	KIT RETROFIT FOR WATER				
031012	Kit for Retrofit IR 14	≋		≋	
031009	Accessories type: "MXi" to connect water cooled interconnecting cable to the wire feeder				
030938	Accessories IR type: "J" to connect water cooled interconnecting cable to the wire feeder (WF 5)				
	WATER COOLING				
032050	Water cooling equipment IR 14 400 V	≋		≋	
				054	MANZI :



MAXIQ SOMETHING DIFFERENT IN THE WELDING MARKET



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

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

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

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



- Simple and strong
- Hybrid synergic ^R control
- Great welding performance





MAXIQ FEATURES

- 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.

SIMPLE AUTOMATION

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

SPECIAL 4 STROKE

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





		MAXIQ		МА	XIQ
TECHNICAL DATA		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

CODE	DESCRIPTION	MAXIQ 400 AIR	MAXIQ 400 W WATER	MAXIQ 500 Air	MAXIQ 500 W WATER
	POWER SOURCES				
006130	Power Source MAXIQ 400 400 V	•		: 	
006135	Power Source MAXIQ 400 W 400 V Water cooled		≋		
006140	Power Source MAXIQ 500 400 V			•	
006145	Power Source MAXIQ 500 W 400 V Water cooled				≋
	INTERCONNECTING CABLES				
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	•		•	
010864	4 m Air cooled Interconnecting cable Power source-Wire feeder				
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder				
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋		≋
010841	4 m Water cooled Interconnecting cable Power source-Wire feeder				
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder				
	WIRE FEEDERS				
030730	Wire Feeder MF 4 Hybrid Synergic ^R 4 rolls (Ø 1,0 / 1,2) Air cooled version	•		٠	
030735	Wire Feeder MF 4 W Hybrid Synergic ^R 4 rolls (Ø 1,0 / 1,2) Water cooled version		≋		≋
031116	WK 4 standard wheels kit for MF feeder				
031007	WK 2 extra-large wheels kit for MF feeder				
031117	HK 1 - Hanging Kit for MF4 / MF4W				
	ALUMINIUM KIT				
030895	Aluminium Kit of double grooved TWIN rolls (Ø 0,8/1,0) and gears kit for Al wires				
030897	Aluminium Kit of double grooved TWIN rolls (Ø 1,0/1,2) and gears kit for Al wires				
030899	Aluminium Kit of double grooved TWIN rolls (Ø 1,2/1,6) and gears kit for Al wires				
	MIG MAG WELDING TORCHES				
020466	CEA Torch CX 353/4 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	•			
020471	CEA Torch CX 451/4 4m wire Ø 0,8/1,6 CO2 400A @60% / Mix 300A @60%			•	
021006	CEA Torch CX 353/4 Up/Down-17p 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%				
020479	CEA Torch CXH 402/4 4m wire: Ø 0,8/1,6 water cooled C02 500A @100% / Mix 450A @100%		≋		≋
021005	CEA Torch CXH 302/4 Up/Down-17p 4m wire Ø 0,8/1,2 CO2 300A @100% / Mix 250A @100%				
021007	CEA Torch CXH 402/4 Up/Down-17p 4m wire Ø 0,8/1,6 CO2 500A @ 100% / Mix 450A @100%				
021021	CEA Digitorch DX 353/4-17p 4m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
021020	CEA Digitorch DXH 302/4-17p 4m wire Ø 0,8/1,2 CO2 300A @100% / Mix 250A @100%				
021022	CEA Digitorch DXH 402/4-17p 4m wire Ø 0,8/1,6 CO2 500A @100% / Mix 450A @100%				
ULIULL	For other torches see mig/mag accessories page				
	GROUND CABLES				
239603	50 mm ² / 4 m Ground cable with clamp	•	≋		
239607	70 mm ² / 4 m Ground cable with clamp			•	≋
200001	GAS REDUCERS			-	
020916	Reducer with flowmeter and 1 manometer	•	≋	•	≋
020010	OTHER OPTION[S]				
031126	Cable winding kit (Maxi I/Maxig/Qubox)				
030903	Extention cable for changeover polarity				
402275A	Cea CL-1100 cooling liquid - 5 I Tank		≋		≋
236234	RC 178 remote control with 5 m cable		~		~
236590	Metallic spool adaptor				
200000	MAXIQ 400 Suggested air cooled version with torch	•			
	MAXIQ 400 Suggested all cooled version with torch		~		
	MAXIQ 400 W Suggested water cooled version with torch Suggested air cooled version with torch		≈	•	
	MAXIQ 500 W Suggested water cooled version with torch			-	≋



Q-YARD THE MULTIPROCESS YARD MASTER

HYBRIC



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

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

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

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



- Multi-process, for yard welding application
- Hybrid Synergic^R control
- Excellent welding performance





Q-YARD FEATURES

- Process: MIG, MMA, TIG Lift
- Special design optimized for yard industry: easy to stack on top of each other
- Two MIG/MAG welding modes: MANUAL and HYBRID SYNERGIC $^{\rm R}$
- 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 equipped

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.

SIMPLE AUTOMATION

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

SPECIAL 4 STROKE

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



TECHNICAL DATA		Q-YARD
		450
Three phase input 50/60 Hz	V +/- 20%	400
Input Power @ I2 Max	kVA	22
Delayed Fuse (I eff)	А	32
Power Factor / $\cos \phi$		0,84 / 0,99
Efficiency Degree		0,86
Open circuit voltage	V	62
Current range	А	10 - 450
$P_{\rm retri}$ and at (40%C)	A 100 %	390
Duty cycle at (40°C)	A 50 %	450
Wire	Ø mm	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10• S
Protection Class	IP	23 \$
Dimensions (L x W x H)	mm	631 (782 with handle) x 273 x 512 (543 with eyebolts)
Weight	Kg	56

CODE	DESCRIPTION	Q-YARD 450			
CODL		AIR	WATER		
	POWER SOURCE				
06160	Power Source Q-YARD 450 400 V	•	≋		
	STANDARD MODELS include Programs for Fe - CrNi - AI and TIG / MMA functions				
	INTERCONNECTING CABLES				
10866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	•			
10867	5 m Air cooled Interconnecting cable Power source-Wire feeder				
10868	10 m Air cooled Interconnecting cable Power source-Wire feeder				
10871	20 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD				
10869	30 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD 40 m / 70 mm ² Air cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD				
10872 10839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		~		
10842	5 m Water cooled Interconnecting cable Power source-Wire feeder		≈		
10846	10 m Water cooled Interconnecting cable Power source-Wire feeder				
10854	20 m / 70 mm ² Water cooled for DIGITECH, QUBOX, MAXIQ and Q-YARD				
10034	30 m / 70 mm ² Water cooled for DIGITECH and Q-YARD to be use with code 032105 - HR 41-LC water cooler				
10070	WIRE FEEDERS				
30731	Wire Feeder MF 4 yard with A/V and Flowmeter - 4 rolls (Ø: 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		~		
31116	WK 4 standard wheels kit for MF 4, MF4 yard and QF 7 W PRO DRIVE feeder				
31007	WK 2 extra-large wheel kit				
31117	HK1 Hanging Kit for MF4 / MF4 yard				
	YARD WIRE FEEDERS				
30727	Wire Feeder Mini MF 4 yard with A/V and Flowmeter 4 rolls (0: 1,0 / 1,2) Air cooled				
30728	Wire Feeder Mini MF 4 W yard with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Water cooled				
00120					
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				
)32130	Water cooling equipment HRX 52 400 V		≋		
)32131	Water cooling equipment HRX 62-LC 400 V reinforced pump - 4,5 bar - for connection length over 20 m				
31174	Kit for connection Q-YARD with HRX		≋		
02275A	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 equipment and cylinder (and autotransformer)	•	≋		
	MIG MAG WELDING TORCHES				
20471	CEA Torch CX 451/4 4 m wire Ø 0,8/1,6 C02 400A @60% / Mix 300A @60%	•			
21006	CEA Torch CX 353/4 Up/Down-17p 4m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
20479	CEA Torch CXH 402/4 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%		≋		
21007	CEA Torch CXH 402/4 Up/Down-17p 4m wire Ø 0,8/1,6 C02 500A @ 100% / Mix 450A @100%				
021021	CEA Digitorch DX 353/4-17p 4m wire Ø 0,8/1,2 C02 340A @60% / Mix 290A @60%				
21022	CEA Digitorch DXH 402/4-17p 4m wire Ø 0,8/1,6 C02 500A @100% / Mix 450A @100%				
	For other torches see mig/mag accessories page				
	TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE				
20568	Torch RTX 26.4 4 m - 180 A 35%				
	GROUND CABLES				
39607	70 mm ² / 4 m Ground cable with clamp	•	≋		
	GAS REDUCERS				
20916	Reducer with flowmeter and 1 manometer	•	≋		
20002	OPTIONAL Extention cable for changequer polority				
30903	Extention cable for changeover polarity				
	Metallic spool adaptor				
36590					
36234	RC 178 remote control with 5 m cable				
	RC 178 remote control with 5 m cable 4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections brush/hammer - shield with lens Q-YARD 450 - Suggested air cooled version with torch	•			



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. Technologically advanced, robust and easy-to-use, they allow high quality welding in MMA, TIG with "Lift" mode, MIG-MAG and with the **QUBOX PULSE** models, also in PULSED MIG.

The intuitive interface will allow 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 spot-welding and pre-assembly of components.

SIMPLE AUTOMATION

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

SPECIAL 4 STROKE

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



SPECIAL PROCESSES

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

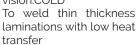
PREMIUM VISION

*	
vision.	
COLD	

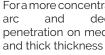
ا ال و و د د د

ILTRASPEEC

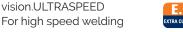
vision.COLD transfer







vision.POWER



deeper penetration on medium



For a more concentrated



ON DEMAND



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

TECHNICAL DATA			QUBOX		QUBOX PULSE					
reonnione brinn		400	400 W	500 W	335	335 W	405 W	505 W		
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400	400	400	400		
Input Power @ I2 Max	kVA	22	22,5	29,5	18	18,5	22,5	29,5		
Delayed Fuse (I eff)	A	32	32	40	20	20	32	40		
Power Factor / cos φ		0,70/0,99	0,70/0,99	0,75/0,99	0,65/0,99	0,65/0,99	0,70/0,99	0,75/0,99		
Efficiency Degree		0,88	0,88	0,89	0,88	0,88	0,88	0,89		
Open circuit voltage	V	62	62	62	62	62	62	62		
Current range	A	10 - 400	10 - 400	10 - 500	10 - 330	10 - 330	10 - 400	10 - 500		
Duty avala at (40%0)	A 100 %	350	350	420	300	300	350	420		
Duty cycle at (40°C)	A 60 %	400	400	500	330	330	400	500		
Wire	Ømm	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		

CODE		DESCRIPTION		QUBOX			QUBOX		
OODL			400 Air	400W WATER	500W WATER	335 Air		405W WATER	505W WATER
	POWER SOURCES		7.01	WALLI	WALLI	7.111	WILI	WALL	WILL
04730	Power Source QUBOX 400	400 V	•						
04740	Power Source QUBOX 400 W Power Source QUBOX 500 W	400 V Water cooled 400 V Water cooled		≈	~				
004745 004766	Power Source QUBOX 300 W	400 V Water cooled 400 V			≋	•			
004771	Power Source QUBOX 335 W PULSE	400 V Water cooled				-	≋		
004770	Power Source QUBOX 405 W PULSE	400 V Water cooled						≋	
004775	Power Source QUBOX 505 W PULSE	400 V Water cooled							≋
	<u>v</u>	s for Fe - CrNi - Al and TIG / MMA functions							
004730PR	PREMIUM VERSION - POWER SOURCES Power Source QUBOX 400	400 V PREMIUM							
004740PR	Power Source QUBOX 400 W	400 V PREMIUM water cooled							
004745PR	Power Source QUBOX 500 W	400 V PREMIUM water cooled							
004766PR	Power Source QUBOX 335 PULSE	400 V PREMIUM							
004771PR	Power Source QUBOX 335 W PULSE	400 V PREMIUM water cooled							
004770PR 004775PR	Power Source QUBOX 405 W PULSE Power Source QUBOX 505 W PULSE								
004775111		tall vision.COLD vision.ULTRASPEED vision.POWER and ECP							
	SOFTWARE FOR SPECIAL MIG/MAG PR								
050010	vision.PIPE for first root pass of pipes								
050050	ECP-Extra Curves Package to meet s								
NOTE:	(*) TO BE INSTALLED ONLY IN CEA BEFO INTERCONNECTING CABLES	JKE DELIVERING THE EQUIPMENT							
010866	1,2 m Air cooled Interconnecting cal	ble Power source-Wire feeder	•			•			
010867	5 m Air cooled Interconnecting cal					-		/	
010868	10 m Air cooled Interconnecting ca	ble Power source-Wire feeder			\geq		\leq	\leq	
010839	-	cable Power source-Wire feeder		≋	≋	\angle	≋	≋	≋
010842	0	cable Power source-Wire feeder				\leq			
010846	10 m Water cooled Interconnecting WIRE FEEDERS	cable Power source-Wire feeder							
030726	Wire Feeder QF 7 W PRO DRIVE w.4 rd	Ils (0: 10/12) Water cooled	•	≋	≋	•	≋	≋	≋
031116	WK 4 standard wheels kit for MF 4, M			~	~	•	~	~	~
031007	WK 2 extra-large wheel kit								
031117	HK1 Hanging Kit for QF7 W PR0 DRIV	E							
	YARD WIRE FEEDERS								
030724 030729		Flowmeter 4 rolls (Ø: 1,0 / 1,2) Air cooled version Flowmeter 4 rolls (Ø: 1,0 / 1,2) Water cooled version							
030729	ALUMINIUM KIT								
030895		N rolls (Ø: 0,8/1,0) and gears kit for Al wires							
030897	Aluminium Kit of double grooved TWI	N rolls (Ø: 1,0/1,2) and gears kit for Al wires							
030899		N rolls (Ø: 1,2/1,6) and gears kit for Al wires							
000400	MIG MAG WELDING TORCHES								
020466 020471	CEA Torch CX 353/4 4 m wire Ø CEA Torch CX 451/4 4 m wire Ø		•		\sim	•	<	<	\sim
021006	CEA Torch CX 353/4 Up/Down-17p		•		\sim				\sim
020472		0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%	/				≋		
020479	CEA Torch CXH 402/4 4 m wire Ø (0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%		≋	≋	\geq		≋	≋
021007		I7p 4m wire Ø 0,8/1,6 CO2 500A @ 100% / Mix 450A @100%							
021021	CEA Digitorch DX 353/4-17p 4m wi			\geq			\leq		\leq
021022	CEA Digitorch DXH 402/4-17p 4m w For other torches see mig/mag acces								
	TIG TORCHES WITH BUILT-IN GAS VALV								
020568	Torch RTX 26.4 4 m - 180 A 35%								
	GROUND CABLES								
239603	50 mm ² / 4 m Ground cable with cla	amp	•	≋		٠	≋	≋	
239607	70 mm ² / 4 m Ground cable with cla	amp			≋				≋
020016	GAS REDUCERS	otor		~	~	•	~	~	~
020916	Reducer with flowmeter and 1 manom OTHER OPTION[S]		•	≈	≋	•	≋	≋	≋
31126	Cable winding kit (Maxi I/Maxiq/Qubox)							
030903	Extention cable for changeover polarity								
102275A	Cea CL-1100 cooling liquid - 5 l Tank			≈	≋	\geq	≋	≋	≋
353473	Dust Air Filter (package of 4 pcs)								
236590	Metallic spool adaptor								
236234 460262	RC 178 remote control with 5 m cable	lder pincer, ground clamp - brush/hammer - shield with lens							
460262		Ider pincer, ground clamp - brush/hammer - shield with lens							
		boled version with torch	•						
		r cooled version with torch		≋					
	QUBOX 500 W Suggested wate	r cooled version with torch			≋				
		poled version with torch				•			
	QUBOX 335 W PULSE Suggested water						≋		
	QUBOX 405 W PULSE Suggested wate QUBOX 505 W PULSE Suggested wate							≋	
	UDDA 303 W PULSE SUDDESTED WATE								≋



DIGITECH THE WELDING EDGE



DIGITECH are the most advanced and top performing multi-process pulse welding equipment of CEA.

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

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

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

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

DIGITECH 3200 VP2 is the compact version designed with a built-in feeder while **DIGITECH 4003 VP3** and **5003 VP3** use a separate wire feeder and are available with the new imposing design.



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





DIGITECH FEATURES

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

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

WIRE FEEDER 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)

STRONG INDUSTRIAL CASE made to last

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



DOUBLE FEEDER

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







DIGITECH SYNERGIC CONTROL

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

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



WELDING MODE

FOUR STROK CRATER 2T CRATER 4T

SPOT WELDING STITCH WELDING WELDING SET UP



MIG PULSE

PROCESS SELECTION

 PROGRAM SELECTION

 PRG
 01010 101000
 With a stress

 PRG
 MATERIAL
 Ø
 GAS

 1011 Fe G3 SI-1
 1.0
 Ar 16-20% CO2
 1012 Fe G3 SI-1

 1014 Fe G3 SI-1
 1.0
 Ar 16-20% CO2
 1015 Fe G3 SI-1
 1.6

 1015 Fe G3 SI-1
 1.6
 Ar 16-20% CO2
 1015 Fe G3 SI-1
 1.6
 Ar 16-20% CO2

 3/90
 /m PMLE
 1 1 2T
 2T
 1
 2

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

/m PULSE 11 4T

1013 Fe G3 SI-1 Ø 1.2 Ar 16-20% CO2

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

FX

11 4T

ETHERNET LAN

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

DIGITECH 4.0 READY

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



ROBOT INTERFACE

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

RI-A1



ANALOGIC/DIGITAL INTERFACE





MIG DUAL PULSE MIG/MAG SYNERGIC MIG/MAG MANUAL VISION.COLD VISION.PIPE VISION.PIPE

In PULSE

1011 Fe G3 SI-1 Ø 0.8 Ar 16-20% CO2

SPECIAL PROCESSES

vision.ARC2 is the software platform available on DIGITECH, 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

ULTRASPEE

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



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.



		DIGITECH VP2	DIGITECH VP3			
TECHNICAL DATA		3200	4003	5003		
Three Phase input 50/60 Hz	V +10% -10%	400	400	400		
Input Power @ I ₂ Max	kVA	19	23,4	29,5		
Delayed Fuse (I eff)	A	20	32	40		
Power Factor / cos Φ		0,66/0,99	0,65/0,99	0,75/0,99		
Efficiency Degree		0,85	0,88	0,89		
Open circuit voltage	V	62	62	62		
Current range	A	10 - 320	10 - 400	10 - 500		
	A 100 %	240	350	400		
Duty cycle at (40°C)	A 60 %	270	400	460		
	A X %	320 (40%)	-	500 (50%)		
Wires	Ø mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6		
Standards			EN 60974-1 • EN 60974-5 • EN 60974-10 氢			
Protection Class	IP	23 S	23 S	23 S		
Dimensions (L x W x H)	mm	660 x 290 x 515	725 x 310 x 525	725 x 310 x 525		
Weight	Kg	41	45	47		

DIGITECH 3200 VP2

ORDER INFORMATION

CODE	DESCRIPTION				
	POWER SOURCES		AIR	WATER	
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				
	Aluminium Kit of double grooved TWIN rolls (0 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				
-	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 SM1 and SP2: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with ECP				
050050	ECP - Extra Curves Package to meet special application				
	EN 1090 WPQR - WPS				
	Collection of WPQR - WPS for DIGITECH	Page 111			
	MIG MAG WELDING TORCHES				
020466	CEA Torch CX 353/4 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%		•	/	
021006	CEA Torch CX 353/4 Up/Down-17p 4m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
020472	CEA Torch CXH 302/4 4 m wire Ø 0,8/1,2 water cooled C02 300A @100% / Mix 250A @100%			≈	
021005	CEA Torch CXH 302/4 Up/Down-17p 4m wire Ø 0,8/1,2 CO2 300A @100% / Mix 250A @100%				
021021	CEA Digitorch DX 353/4-17p 4m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%			/	
021020	CEA Digitorch DXH 302/4-17p 4m wire Ø 0,8/1,2 CO2 300A @100% / Mix 250A @100%				
	For other torches see MIG/MAG accessories page				
	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			≋	
-	Cea CL-1100 cooling liquid - 5 l Tank			≋	
	TROLLEYS				
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)		•	≋	
	GROUND CABLES				
239603	50 mm² / 4 m Ground cable with clamp		•	≋	
	GAS REDUCERS				
020916	Reducer with flowmeter and 1 manometer		•	≋	
	OTHER OPTION[S]				
236590	Metallic spool adaptor				
236234	RC 178 remote control with 5 m cable				
020340	Autotransformer A 13-H 220/400 V 50/60 Hz 3 Phase				
	4+3 m 35 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens				
	DIGITECH 3200 VP2 COMPACT Suggested air cooled version with torch		•		
	DIGITECH 3200 VP2 COMPACT Suggested water cooled version with torch			≋	



DIGITECH 3200 VP2 COMPACT

DIGITECH 4003/5003 VP3

CODE	DESCRIPTION		DIGITECH VP3 4003		003
		All	R WATER	AIR	WATER
004708	POWER SOURCES Power Source DIGITECH 4003 VP3 400 V	•	~		
)04708)04713	Power Source DIGITECH 5003 VP3 400 V		> ≈	•	~
JU4715	SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE				≈
004708PR					
004708Ph 004713PR	Power source DIGITECH 4003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket Power source DIGITECH 5003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket				-
JU47 ISP'N	DIGITECH VP3's PREMIUM READY FOR INDUSTRY 4.0 - PREPARED To be connected to QR WIFI READER and/or to WIFI LAN				-
004709PR	Power source DIGITECH 4003 VP3 PREMIUM 4.0 READY 400V vision.FULL PACKAGE & Ethernet & USB socket				
004709PN 004714PR	Power source DIGITECH 5003 VP3 PREMIUM 4.0 READY 400V VIsion. FULL PACKAGE & Ethernet & USB socket				
JU4714111	SOFTWARE FOR SPECIAL MIG/MAG PROCESS				
050002	SM1 - SPECIAL MIG Process Package: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP				
050002	SP2 - PERFORMANCE Process Package: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP				
100000	SFP - vision.FULL-PACKAGE complete package with Special MIG Process Package (SM1) and Special PULSE Process:				
050004	vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP				
050050	ECP-Extra Curves Package to meet special application				
100000	EUP-Extra curves rackage to meet special application				
		no 111			
	Collection of WPQR - WPS for Digitech Pag	ge 111			
10020			~	-	~
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	•	> ≈	•	≋
010842	5 m Air / Water cooled Interconnecting cable Power source-Wire feeder				-
010846	10 m Air / Water cooled Interconnecting cable Power source-Wire feeder				-
	WIRE FEEDERS				-
030716	Wire Feeder HT 6 PRO DRIVE 4 rolls (Ø 1,0/1,2)	•	≋	•	≋
031116	WK 4 standard wheels kit for HT 6 PRO DRIVE feeder			<u> </u>	-
031007	WK 2 extra-large wheels kit for HT 6 PRO DRIVE feeder				
)31117	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 Ø 0,8/1,6 CO2 400A @60% / Mix 300A @60%	•			
021006	CEA Torch CX 353/4 Up/Down-17p 4m wire Ø 0,8/1,2 - CO2 340A @60% / Mix 290A @60%				
020479	CEA Torch CXH 402/4 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%		≈	\leq	≋
021007	CEA Torch CXH 402/4 Up/Down-17p 4m wire Ø 0,8/1,6 - C02 500A @ 100% / Mix 450A @100%			\leq	
021021	CEA Digitorch DX 353/4-17p 4m wire Ø 0,8/1,2 - CO2 340A @60% / Mix 290A @60%				1
021022	CEA Digitorch DXH 402/4-17p 4m wire Ø 0,8 / 1,6 - CO2 500A @100% / Mix 450A @100%				
	For other torches see MIG/MAG torches				
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE				
20568	Torch RTX 26.4 4 m - 180 A 35%				
	WATER COOLING				
032125	Water cooling equipment HRX 51 400 V		~ ≈		~ ≈
402275A	Cea CL-1100 cooling liquid - 5 l Tank		*		~ ≈
	TROLLEYS				
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)				
234932	Trolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)				
234934	Trolley PRIME CT 81 with 4 rolls for power source, cooling equipment 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	•	> ≈	•	≈
20010	OTHER OPTION[S]		~~~~~		~
)30903	Extention cable for changeover polarity				
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				
160262	4+3 m 50 mm ² cables with electrodeholder pincer, ground clamp and 50mm ² safety connections brush/hammer - shield with lens				
	DIGITECH 4003 VP3 Suggested air cooled version with torch		()	1	1
	DIGITECH 4003 VP3 Suggested air cooled version with torch DIGITECH 5003 VP3 Suggested air cooled version with torch		≋	•	

DIGITECH DOUBLE FEEDER

CODE	DESCRIPTION		CH VP3 03 WATER		CH VP3	
	POWER SOURCES					
004708	Power Source DIGITECH 4003 VP3 400 V		•	≋		
004713	Power Source DIGITECH 5003 VP3 400 V				٠	≋
	SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE					
004708PR	Power source DIGITECH 4003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket					
004713PR	Power source DIGITECH 5003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket			1		
	SOFTWARE FOR SPECIAL MIG/MAG PROCESS					
050002	SM1 - SPECIAL MIG Process Package: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP					
050003	SP2 - PERFORMANCE Process Package: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP					
050004	SFP - vision.FULL-PACKAGE complete package with Special MIG Process Package (SM1) and Special					
030004	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	Page 111				
	INTERCONNECTING CABLES					
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder		•	≋	٠	≋
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder		•	≋		≋
010842	5 m Air / Water cooled Interconnecting cable Power source-Wire feeder					
010846	10 m Air / Water cooled Interconnecting cable Power source-Wire feeder					
	WIRE FEEDERS					
030716	Wire Feeder HT 6 PRO DRIVE 4 rolls (Ø 1,0/1,2)		•	≋	٠	≋
030716	Wire Feeder HT 6 PRO DRIVE 4 rolls (Ø 1,0/1,2)		•	≋		≋
031120	Support and Connection Kit for DOUBLE HT 6 wire feeder system for DIGITECH VP3		•	≋		≋
	Aluminium KIT					
030895	Aluminium Kit of double grooved TWIN rolls (Ø 0,8/1,0) and gears kit for Al wires					
030897	Aluminium Kit of double grooved TWIN rolls (Ø 1,0/1,2) and gears kit for Al wires					
030899	Aluminium Kit of double grooved TWIN rolls (Ø 1.2/1,6) and gears kit for Al wires					
	MIG MAG WELDING TORCHES					
020466	CEA Torch CX 353/4 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%			\angle		\leq
020471	CEA Torch CX 451/4 4 m wire Ø 0,8/1,6 CO2 400A @60% / Mix 300A @60%		•X2	\angle	●X2	\leq
021006	CEA Torch CX 353/4 Up/Down-17p 4m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%			\angle		
020472	CEA Torch CXH 302/4 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%				\leq	
020479	CEA Torch CXH 402/4 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%			≋X2	\leq	≋X2
021007	CEA Torch CXH 402/4 Up/Down-17p 4m wire Ø 0,8/1,6 - CO2 500A @ 100% / Mix 450A @100%				\geq	
021021	CEA Digitorch DX 353/4-17p 4m wire Ø 0,8/1,2 - CO2 340A @60% / Mix 290A @60%			\leq		\geq
021020	CEA Digitorch DXH 302/4-17p 4m wire Ø 0,8/1,2 - C02 500A @100% / Mix 450A @100%				\leq	
021022	CEA Digitorch DXH 402/4-17p 4m wire Ø 0,8/1,6 - CO2 500A @100% / Mix 450A @100%				\geq	
	WATER COOLING					
032125	Water cooling equipment HRX 51 400 V			≋	\leq	≋
402275A	Cea CL-1100 cooling liquid - 5 l Tank			≋	\geq	≋
	TROLLEYS					
234935	Trolley PRIME CT 82 Large for power source and 2 gas cylinders and autotransformer		•	≋	•	≋
	GROUND CABLES					
239603	50 mm ² / 4 m Ground cable with clamp		•	≋		
239607	70 mm ² / 4 m Ground cable with clamp				•	≋
	GAS REDUCERS					
020916	Reducer with flowmeter and 1 manometer		•	≋	•	≋
	OTHER OPTION[S]					
030903	Extention cable for changeover polarity					
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					
	DIGITECH 4003 VP3 with Double Feeder HT 6 - Suggested air cooled version with torch		•			
	DIGITECH 4003 VP3 with Double Feeder HT 6 - Suggested water cooled version with torch			≋		
	DIGITECH 5003 VP3 with Double Feeder HT 6 - Suggested air cooled version with torch				•	
	DIGITECH 5003 VP3 with Double Feeder HT 6 - Suggested water 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





TECHNICAL DATA		SMARTMIG		COMPACT	
		T 25	270	310	410
Three phase input 50/60 Hz	V	230/400	230/400	230/400	230/400
Input Power @ I2 Max	kVA	9,7	12	13,3	18,5
Delayed Fuse (I ₂ @ 60%)	A	16/10	16/10	25/16	35/20
Power Factor / cos Φ		0,75	0,96	0,96	0,96
Efficiency Degree		0,76	0,65	0,70	0,77
Open circuit voltage	V	17 - 38	17 - 38	18 - 43,5	20 - 44
Adjustment positions	N°	10	10	10	20
Current range	A	25 - 250	25 - 250	30 - 300	60 - 400
	A 100%	120	140	170	240
Durby evalue at (40%)	A 60%	160	180	225	300
Duty cycle at (40°C)	A 35%	210	250	300	400
	A X%	250 (25%)			
Wires	Ø mm	0,6 - 1,2	0,6 - 1,2	0,6 - 1,2	0,6 - 1,6
Standards			EN 60974-1 • EN 6097	4-5 • EN 60974-10• 🔊	
Protection Class	IP	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	1060 x 600 x 780
Weight	Kg	53	67	70	109





IR 14 water cooling equipment (COMPACT 410)

		SMARTMIG	COMPACT	COMPACT	COM	PACT
CODE	DESCRIPTION	T 25	270	310	COMP. 410 AIR	10
		AIR	AIR	AIR	AIR	WATER
	POWER SOURCES WITH TORCH					
007545	Power source SMARTMIG T 25* 230/400 V - 3 Ph complete with: C 25/3 3 m Torch,	•				
	5 mm² / 3m Ground cable and roll for 0,8/1,0 mm Ø wires -					
	POWER SOURCES WITHOUT TORCH					
007546	Power source SMARTMIG T 25 * 230/400 V - 3 Ph complete with: 25 mm ² /3 m					
	Ground cable and roll for 0,8/1,0 mm Ø wires -					
007200	Power source COMPACT 270* 230/400V (2 rolls for wire Ø 0,8/1,0 mm)		•			
007210	Power source COMPACT 310 230/400V (2 rolls for wire Ø 0,8/1,0 mm)			•		
007230	Power source COMPACT 410 230/400V (4 rolls for wire Ø 1,0/1,2 mm)				٠	≋
	WELDING TORCHES					
020458	CEA Torch CX 251/3 3 m wire Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%		•			
020466	CEA Torch CX 353/4 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				•	
020472	CEA Torch CXH 302/4 4 m wire Ø 0,8/1,2 water cooled CO2 300A@100% / Mix 250A @100%					≋
	WATER COOLING					
032050	Water cooling equipment IR 14 400 V				\nearrow	≋
032055	Water cooling equipment IR 14 230 V				\nearrow	
402275A	Cea CL-1100 cooling liquid - 5 l Tank				\nearrow	≋
030939	Accessories IR type: "L"				\nearrow	≋
	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			•		
239603	50 mm ² / 4 m Ground cable with clamp				•	_ ≈
	GAS REDUCERS					
020855	Reducer with 2 manometers	•	•	•	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 410 Suggested air cooled version with torch				•	
	COMPACT 410 Suggested water cooled version with torch					≋
	~~					4



MAXI STEP ADJUSTMENT MIG WELDING EQUIPMENT WITH SEPARATE WIRE FEEDER



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

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

MAXI supplied with cylinder carriage and robust wheels.



Easy to use

- Strong and reliable
- Good welding performance

MAXI FEATURES

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

WIRE FEEDER WF 5

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



TECHNICAL DATA		MA	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 (I2 @ 60%)	A	35/20	40/25			
Power Factor / cos φ		0,96	0,97			
Efficiency Degree		0,77	0,78			
		20 - 44	19 - 51			
Adjustment positions	N°	20	30			
Current range	A	60 - 400	60 - 500			
	A 100%	230	300			
, ,	A 60%	300	370			
	A 35%	400	500			
Wires	Ø mm	0,6 - 1,6	0,8 - 2,0			
Standards		400 500 0,6 - 1,6 0,8 - 2,0 EN 60974-1 • EN 60974-10 S				
Protection Class	IP	23 S	23 S			
Dimensions (L x W x H)	mm	1060 x 600 x 780	1060 x 600 x 780			
Weight	Kg	99	113			





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)

CODE	DESCRIPTION		AXI		AXI
CODL	DESCHILITION	40			05
	POWER SOURCES	AIR	WATER	AIR	WATER
006105	Power source MAXI 405 230/400 V 3 phase	•	≈		
006105	Power source MAXI 405 230/400 V 3 phase 230/400	•	~	•	
000115	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				
010300	WIRE FEEDERS				
030635	Closed Wire Feeder WF 5 4 rolls (Ø 1,0 / 1.2)	•	≋	•	≈
030755	Closed Wire Feeder SWF STRONG FEEDER 4 rolls (Ø 1,0 / 1,2)		~		~
030927	Wheels Kit for WF 5 with additional fastening plate (code 030887) to fix interconnecting cable				
030887	Fastening plate to fix interconnecting cable to WF 5 (already included into 030924, 030927 wheels kit)				
030007	WELDING TORCHES				
020466	CEA Torch CX 353/4 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	•			
020471	CEA Torch CX 451/4 4 m wire Ø 0,8/1,6 CO2 400A @60% / Mix 200A @60%				
020472	CEA Torch CXH 302/4 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100%/Mix 250A @100%		≈		
020479	CEA Torch CXH 402/4 4 m wire Ø 0,8/1,6 water cooled C02 500A @100%/Mix 450A @100%				≈
020110	WATER COOLING				
032050	Water cooling equipment IR 14 400 V		≋		≋
032055	Water cooling equipment IR 14 230 V				
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		≋
030938	Accessories IR type: "J"		≋		≋
	IR must have the same input voltage used for the power source.			/	
	GROUND CABLES				
239603	50 mm ² / 4 m Ground cable with clamp	٠	≋	٠	≋
	GAS REDUCERS				
020855	Reducer with 2 manometers	٠	≋	٠	≋
	OTHER OPTION[S]				
030956	Digital V/A meter Kit with "hold" function				1
236590	Metallic spool adaptor				
020400	Adjustable Arm Torch and Support				
	MAXI 405 - WF 5 Suggested air cooled version (with torch)	•			
	MAXI 405 - WF 5 Suggested water cooled version (with torch)		≋		
	MAXI 505 - WF 5 Suggested air cooled version (with torch)			۲	
	MAXI 505 - WF 5 Suggested water cooled version (with torch)				≋
				CE	





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 is the iconic welding machine that has introduced the innovative inverter technology for professional TG DC welding machines in a curved design.

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 performs very well also in MMA welding, due to their lightness and portability, making them 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 welders

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







		RAINBO	W 201 HF	RAINBOW	182 HF PRO	RAINBOW 202 HF PRO		
TECHNICAL DATA		TIG DC	MMA	TIG DC	MMA	TIG DC	MMA	
Single phase input 50/60 Hz	V +20% -20%	230	230	230	230	230	230	
Input Power @ I2 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	
Dimensions (L x W x H)	mm	390 x 1	35 x 300	390 x 13	35 x 300	390 x 1	35 x 300	
Weight	Kg	-	7,5	7,	5	-	7,5	

PULSE MODE

(RAINBOW 182 HF pro - 202 HF pro)



SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current

FAST PULSE FAST PULSE Adjust freque

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	•		٠		
Initial current		٠				٠		
Up Slope								
Welding current		•	٠	•	٠	•	•	
2nd welding current	"CYCLE"	٠				٠		
Pulse cycle	"PULSE"	٠				٠		
Down Slope		٠		٠		٠		
Final current		٠				•		
Post gas		٠		•		٠		
Spot time		٠		٠		٠		
Automatic Hot Start			٠		٠		٠	
Automatic Arc Force		1	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			۲
	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 mm² / 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	PSR 7 5 m foot remote control			
460056	Adapter for simultaneous connection of Torch and PSR 7			
460005	A6 Connection kit for non-standard Torch			
	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

ПП





MATRIX HF FEATURES

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

TIG RCT - Running coldTACK

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

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



coldTACK

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

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

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

MATRIX HF MATRIX HF 0 MATRIX HF FUNCTION 3001 2200 • 2600 • 3000 • 4200 TIG MMA MMA TIG **High Frequency striking** . 0 000 "Lift" mode striking • • Pre Gas • • Initial Current Up Slope Welding current 2nd welding current "CYCLE" "PULSE" Base current Base current time "PULSE" "PULSE" Peak current "PULSE" Peak current time Pulse frequency "PULSE" Down Slope • Final current Post gas • Spot time • . Hot Start • Arc Force • Electrode type selection • Anti-sticking •



MMA FUNCTIONS

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

CYCLE FUNCTION

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

PULSE MODE



FAST PULSE

SYN PULSE

FAST PULSE

SYN PULSE will synergically 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



TECHNICAL DATA		MATRIX	2200 HF	MATRIX	2600 HF	MATRIX 300	00 / 3001 HF	MATRIX 4200 HF					
		TIG	ММА	TIG	ММА	TIG	ММА	TIG	ММА				
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	5,2	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		0,87		0,87		0,	86
Open circuit voltage	V	8	5	8	5	85		8	15				
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	60974-1 • EN 6097	4-3 • EN 60974-10	S						
Protection Class	IP	23	3 S	23	3 S	23	3 S	23	3 S				
Dimensions (L x W x H)	mm	465 x 185 x 390		495 x 185 x 390		495 x 185 x 390		560 x 2	20 x 425				
Weight	Kg	1	4	1	7,5	17	7,5	25					



VT 101 trolley for lodging gas cylinder and water cooling equipment



VT 200 trolley for lodging gas cylinder and CT 401 trolley for lodging gas cylinder and water cooling equipment water cooling equipment (for MATRIX 4200HF)

ORDER INFORMATION

CODE	DESCRIPTION		TRIX 10 HF	1	TRIX 0 HF	MATRIX 3000 HF		MATRIX 3001 HF		1	
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
	POWER SOURCES										
004505	Power source MATRIX 2200 HF 230V	•	≋								
004527	Power source MATRIX 2600 HF 400V				≈						
004530	Power source MATRIX 3000 HF 400V					٠	≋		1		
004532	Power source MATRIX 3001 HF 400V							٠	≋		
004555	Power source MATRIX 4200 HF 400V									٠	≋
	WELDING TORCHES										
020562	CEA Torch T XA 26.4 4 m - 250 A 60% (DC)	•			\searrow		\sim		\sim		
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		≋		≋		≋		≋		≋
020677	CEA Torch TXH 18.4 "UP/DOWN" 4 m - 320 A 100% (DC) - water cooled		1				AIR WATER AIR WATER AIR V AIR WATER AIR V ■ ② ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③ ③				
	For torches with 8 m long cable see tig accessories										
	2 WHEELS TROLLEYS										
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			\sim	≋	\geq	≋	\searrow	≋	\geq	≋
413463	Input cable Adapter to connect HR 23 with MATRIX 4200 HF										≋
402275A	Cea CL-1100 cooling liquid - 5 l Tanks		≋		≋	\geq	≋	\searrow	≋	\geq	≋
	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	•	≋		≋	٠	≋	٠	≋	٠	≋
	OTHER OPTION[S]										
236243	CD 6/8 8 m manual remote control										
020919	PSR 7 5 m foot remote control				-		-		-		
460056	Adapter for simultaneous connection of Torch and PSR 7										
460005	A6 Connection kit for non-standard Torch			_	-						
	Autotransformer 220V/400V-50/60Hz - 3 Phase										
	Special Trolley for Gas Cylinder & Autotransformer				-		-				
	MATRIX 2200 HF Suggested air cooled version with torch and VT 101	•									
	MATRIX 2200 HF Suggested water cooled version with torch and VT 101		≋								
	MATRIX 2600 HF Suggested air cooled version with torch and VT 101										
	MATRIX 2600 HF Suggested water cooled version with torch and VT 101				≋						
	MATRIX 3000 HF Suggested air cooled version with torch and VT 101					٠					
	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									٠	
	MATRIX 4200 HF Suggested water cooled version with torch and VT 200		1		1		1		1		≋

(**) On request

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 GAS WASSER		MATRIX 2600 HF GAS WASSER		MATRIX 3000 HF GAS WASSER		MATRIX 3001 HF GAS WASSER		MATRIX 4200 HF GAS WASSER	
	4 WHEELS TROLLEY	GAS	WASSER	GAS	WASSER	GAS	WASSER	GAS	WASSER	GAS	WASSER
	4 WHEELS INVELET	<u> </u>			<u> </u>						Ļ
234931	Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder		≋		≈		≋		≋		≋
	WATER COOLING FOR CT 401										
032065	Water cooling equipment HR 22 400 V	\square	≋			/					\square
032060	Water cooling equipment HR 23 400 V				≋		≋		≋		
032098	Water cooling equipment HR 32 400 V	\square									≋
402275A	Cea CL-1100 cooling liquid - 5 l Tanks	\square	≈		≋		≋	\square	≋	\square	≋
031166	Adaptor support plate for Matrix 4200 HF if used with CT 401 and HR 32	\square									≋



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 sophisticated requests 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

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



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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 synergically 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	ММА
Single phase input 50/60 Hz	V +/- 20%	23	30		-
Three phase input 50/60 Hz	V +/- 20%		-	40	00
Input Power @ I2 Max	kVA	5,2	6,0	8,5	8,5
Delayed Fuse (I eff)	A	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 6097	4-3 • EN 60974-10 S	
Protection Class	IP	23	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

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0005	DECODIDITION			RIX X	
CODE	DESCRIPTION	220		300	
		AIR	WATER	AIR	WATER
	POWER SOURCE				
	Power source MATRIX X 220 HF 230V 1 Phase X Vision control	•	≈		
	Power source MATRIX X 300 HF 400V 3 Phase X Vision control			•	≈
	TIG TORCH				
	CEA Torch TXA 26.4 4 m - 250 A 60% (DC)	•		•	
-	CEA Torch TXA 26.4 "UP/DOWN" 4 m - 250 A 60% (DC)				
	CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled		≋		≋
	CEA Torch Mini TXH 20.4 "UP/DOWN" 4 m - 250 A 100% (DC) - water cooled				
	CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled				
	CEA Torch TXH 18.4 "UP/DOWN" 4 m - 320 A 100% (DC) - water cooled				
	For torches with 8 m long cable see tig accessories				
	TROLLEY				
	Trolley VT 101 with 2 rolls for power source, cooling equipment and cylinder	•	≋	•	≋
	Trolley CT 401 with 4 rolls for power source, cooling equipment and cylinder				
	WATER COOLING				
	Water cooling equipment HRX 20 230 V		≋		
	Water cooling equipment HRX 30 400 V				≋
402275A	Cea CL-1100 cooling liquid - 5 I Tank		≋		≋
	GROUND CABLES				
239601	35 mm ² / 4 m Ground cable with clamp	•	≋	٠	≋
	GAS REDUCERS				
020916	Reducer with flowmeter and 1 manometer	•	≋	٠	≋
(OPTIONAL				
031118	TSA1 TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V)				
	DFX1 Dust Filter for MATRIX X				
236243	CD 6/8 8 m remote control with geared down potentiometer				
020919	PSR 7 5 m foot remote control				
460056	Adapter for simultaneous connection of Torch and PSR 7				
460005	A6 Connection kit for non-standard Torch				
	MATRIX X 220 HF Suggested air cooled version with torch	•			
	MATRIX X 220 HF Suggested water cooled version with torch		≋		
	MATRIX X 300 HF Suggested air cooled version with torch			۲	
	MATRIX X 300 HF Suggested water 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

TIG RCT - Running coldTACK

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

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



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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
- 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



PULSE

ULTRA FAST

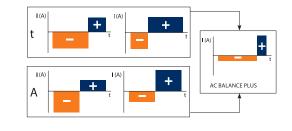
HIGH PULSE FREQUENCY IN DC Adjust frequency up to 2000 Hz

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



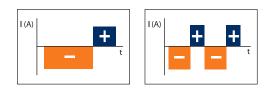
COLD

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.



			MAT	FRIX		
TECHNICAL DATA		2200	AC/DC	3000 AC/DC		
		TIG	MMA	TIG	MMA	
Single phase input 50/60 Hz	V	230	+/- 20%		-	
Three phase input 50/60 Hz	V		-	400	+/- 20%	
Input Power @ I2 Max	kVA	5,6	6,2	9,0	9,6	
Delayed Fuse (I eff)	A	16	16	10	10	
Power Factor / cos φ		0,99/0,99	0,99/0,99	0,93/0,99	0,94/0,99	
Efficiency Degree		0,	81	0,	83	
Open circuit voltage	V	8	5	8	35	
Current range	A	1 - 220	10 - 180	1 - 300	10 - 250	
	A 100 %	140	120	210	190	
Duty cycle at (40°C)	A 60 %	180	150	250	220	
	A X %	220 (30%)	180 (30%)	300 (35%)	250 (40%)	
Standards			EN 60974-1 • EN 60974	4-3 • EN 60974-10 S		
Protection Class	IP	23 S	23 S	23 S	23 S	
Dimensions (L x W x H)	mm	465 x 185 x 390 495 x 185 x 390			85 x 390	
Weight	Kg	15	15,5 19			

ORDER INFORMATION

			MA	RIX	
CODE	DESCRIPTION	2200	AC/DC	3000	AC/DC
		AIR	WATER	AIR	WATER
	POWER SOURCE				
004510	Power source MATRIX 2200 AC/DC 230V 1 Phase	•	≋		
004535	Power source MATRIX 3000 AC/DC 400V 3 Phase			•	≋
	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		≋	\leq	≋
020677	CEA Torch TXH 18.4 "UP/DOWN" 4 m 320 A 100% (DC) - water cooled			\leq	
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				
	TROLLEYS				
234929	Trolley VT 101 for power source, cooling equipment and cylinder	٠	≋		≋
234931	Trolley CT 401 for power source, cooling equipment and cylinder				
	WATER COOLING				
032065	Water cooling equipment HR 22 230 V		≋	\leq	
032060	Water cooling equipment HR 23 400 V			\leq	≋
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		≋
	GROUND CABLES				
239601	35 mm ² / 4 m Ground cable with clamp	•	≋	•	≋
	GAS REDUCERS				
020916	Reducer with flowmeter and 1 manometer	•	≋		≋
	OPTIONAL				
236243	CD 6/8 8 m remote control with geared down potentiometer				
020919	PSR 7 5 m foot remote control				
460056	Adapter for simultaneous connection of Torch and PSR 7				
460005	A6 Connection kit for non-standard Torch				
	MATRIX 2200 AC DC Suggested air cooled version with torch	•			
	MATRIX 2200 AC DC Suggested water cooled version with torch		≋		
	MATRIX 3000 AC DC Suggested air cooled version with torch				
	MATRIX 3000 AC DC Suggested water cooled version with torch				≋



VT 101

CT 401



MATRIX X AC/DC

THE ULTIMATE SOLUTION FOR AC/DC TIG



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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 materials 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

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User friendly interface

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

Welding mode "cycle"

Personalized welding program storing and recalling

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

Advanced setting infographic

WELDING MODE



WELDING SETTING MODE





ADVANCED JOB MANAGEMENT

4 SAVED JOE PRESS KNOB TO LOAD	S	PRESS KNOB 2 sec TO EDIT
J-01 JOB 01		
J-02 JOB 02	150A	
J-03 JOB 03		
J-04 JOB 04		

PULSE DC MODE



SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current



FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz



ULTRA FAST HIGH PULSE FREQUENCY IN DC

Adjust frequency up to 2000 Hz



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.







DYNAMIC

Square wave: high arc dynamics for all applications



SOFT

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

		MATRIX X							
TECHNICAL DATA		220 A	C/DC	300 A	AC/DC	400 A	C/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	40	00
Input Power @ I2 Max	kVA	5,6	6,2	9,0	9,6	19,0	24,7	26,0	31,0
Delayed Fuse (I eff)	A	16	16	10	10	32	32	40	50
Power Factor / cos φ		0,99/0,99	0,99/0,99	0,93/0,99	0,94/0,99	0,65/0,99	0,67/0,99	0,73/0,99	0,73/0,99
Efficiency Degree		0,	81	0,	83	3 0,86		0,	87
Open circuit voltage	V	8	5	8	5	8	5	8	5
Current range	А	1 - 220	10 - 180	1 - 300	10 - 250	1 - 400	10 - 400	1 - 500	10 - 500
	A 100 %	140	120	210	190	350	350	400	400
Duty cycle at (40°C)	A 60%	180	150	250	220	400	400	500	500
	A X %	220 (30%)	180 (30%)	300 (35%)	250 (40%)	-	-	-	-
Standards				EN 60974-1 · EN 60974-3 · EN 60974-10 S					
Protection Class	IP	23	3 S	23	3 S	23	S	23	3 S
Dimensions (L x W x H)	mm	530 x 2	15 x 410	530 x 215 x 410		710 x 290 x 530		710 x 29	90 x 530
Weight	Kg	2	0	21,5		53		5	4

CODE DESCRIPTION 220 AC/DC AR 300 AC/DC AR 500 AC/DC AR						MAT	RIX X			
PUVER SOURCE PVVER SOURCE<	CODE	DESCRIPTION	220 /	AC/DC	300	AC/DC	400 AC/DC		500 AC/DC	
04452 Power source MATRIX X200 AC/DC 2000 Phase X Vision control 			AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
04955 Power source MATRIX X300 AC/DC 400V 3 Phase X Vision control 04003 Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control 04003 Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control 04003 Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control 05052 CA Toro TXA 25.4 4 m - 250 A 60% (DC) • <td< td=""><td></td><td>POWER SOURCE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		POWER SOURCE								
040433 Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control 040697 Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control 040697 Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control 020562 CCA Torch TXA 28.4 4 m - 250 A 60% (DC) • • • 020562 CCA Torch TXA 28.4 4 m - 250 A 100% (DC) - water cooled # • • • 020562 CCA Torch TXA 18.4 4 m - 250 A 100% (DC) - water cooled # # • <td>004512</td> <td>Power source MATRIX X220 AC/DC 230V 1 Phase X Vision control</td> <td>٠</td> <td>≋</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	004512	Power source MATRIX X220 AC/DC 230V 1 Phase X Vision control	٠	≋						
004097 Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control 00562 CA forch XA 28.4 4m - 250 A 60% (DC) • • • 02656 CA forch XA 28.4 4m - 250 A 60% (DC) • • • • 02656 CA forch XA 28.4 4m - 250 A 60% (DC) • • • • • 02656 CA forch XA 28.4 4m - 250 A 100% (DC) - water cooled • <t< td=""><td>004565</td><td>Power source MATRIX X300 AC/DC 400V 3 Phase X Vision control</td><td></td><td></td><td>•</td><td>≋</td><td></td><td></td><td></td><td></td></t<>	004565	Power source MATRIX X300 AC/DC 400V 3 Phase X Vision control			•	≋				
TIG TORCHES Image: CEA Torch TXA 28.4 4m - 280.A 60% (DC) 020562 CEA Torch TXA 28.4 "UP/DOWN" 4m - 280.A 60% (DC) 020567 CEA Torch Mini TXA 20.4 "UP/DOWN" 4m - 280.A 00% (DC) - water cooled 020567 CEA Torch Mini TXA 20.4 "UP/DOWN" 4m - 280.A 100% (DC) - water cooled 02057 CEA Torch TXH 18.4 4m - 280.A 100% (DC) - water cooled Image: CEA Torch TXH 18.4 4m - 280.A 100% (DC) - water cooled 02057 CEA Torch TXH 18.4 4m - 280.A 100% (DC) - water cooled Image: CEA Torch TXH 18.4 Image: CEA Torch	004093	Power source MATRIX X400 AC/DC 400V 3 Phase X Vision control					٠	≋		
202562 CEA Torch TXA 26.4 4 m - 250 A 60% (DC) 020662 CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled 020667 CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled 02067 CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled 02067 CEA Torch Mini TXH 20.4 4 m - 250 A 100% (DC) - water cooled 02067 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 02067 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 02067 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled 23492 Trolley T0 tor power source, cooling equipment and cylinder 23492 Trolley CT 30 with 4 rolls for power source, cooling equipment and cylinder 23492 Trolley CT 30 with 4 rolls for power source, cooling equipment and cylinder 23492 Trolley CT 30 with 4 rolls for power source, cooling equipment and cylinder 23492 trolley CT 30 with 4 rolls for power source, cooling equipment and cylinder 23492 trolley CT 30 with 4 rolls for power source, cooling equipment and cylinder <td>004097</td> <td>Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>≋</td>	004097	Power source MATRIX X500 AC/DC 400V 3 Phase X Vision control								≋
020650 CEA Torch TXA 28.4 "UP/DOWN" 4 m - 250.4 60% (DC) 020667 CEA Torch Mini TXH 20.4 "m - 250.4 100% (DC) - water cooled # 020680 CEA Torch Mini TXH 20.4 "m - 250.4 100% (DC) - water cooled # # 020670 CEA Torch Mini TXH 20.4 "m - 250.4 100% (DC) - water cooled # # # 020670 CEA Torch XIH 18.4 "m - 320.4 100% (DC) - water cooled # <td></td> <td>TIG TORCHES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		TIG TORCHES								
Q20667 CEA Torch Mini TXH 20.4 4 m - 280 A 100% (DC) - water cooled m Q20808 CEA Torch Mini TXH 20.4 4 m - 320 A 100% (DC) - water cooled m <td< td=""><td>020562</td><td>CEA Torch TXA 26.4 4 m - 250 A 60% (DC)</td><td></td><td></td><td></td><td></td><td></td><td>\nearrow</td><td></td><td></td></td<>	020562	CEA Torch TXA 26.4 4 m - 250 A 60% (DC)						\nearrow		
20580 CA Torch Mini TXH 20.4 "UP/DOWN" 4 m - 250 A 100% (DC) - water cooled # # 20507 CA Torch TXH 18.4 UP/DOWN" 4 m - 220 A 100% (DC) - water cooled # # 20507 CA Torch TXH 18.4 UP/DOWN" 4 m - 320 A 100% (DC) - water cooled # # 20507 CA Torches with 8 m long cable see tig accessories Image: Cooled	020662	CEA Torch TXA 26.4 "UP/DOWN" 4 m - 250 A 60% (DC)								
20072 CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled Image: Cear Torch TXH 18.4 "Proforch TXH 18.4" UP/DOWN" 4 m - 320 A 100% (DC) - water cooled Image: Cear Torch TXH 18.4 "Proforch TXH 18.4" UP/DOWN" 4 m - 320 A 100% (DC) - water cooled Image: Cear Torch TXH 18.4 "Proforch TXH 18.4" UP/DOWN" Image: Cear Torch TXH 18.4 "Proforch TXH 18.4" UP/DOWN" Image: Cear Torch TXH 18.4 "Proforch TXH 18.4" UP/DOWN" Image: Cear Torch TXH 18.4 "Proforch TXH 18.4" UP/DOWN" Image: Cear Torch TXH 18.4 Image: Cear Torch TXH 18.4 "Proforch TXH	020667			*						
020677 CEA Tarch TXH 18.4 "UP/DOWN" 4 m - 320 A 100% (DC) - water cooled Por torches with 8 m long cable see tig accessories Image: Coole and Cool	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 TROLLEYS TROLLEYS 24493 Tolley CT 10 in power source, cooling equipment and cylinder 24493 Tolley CT 70 with 4 rolls for power source, cooling equipment and cylinder 24493 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 24492 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder Water cooling equipment HRX 20 24492 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder Water cooling equipment HRX 20 000 V 282 Water cooling equipment HRX 20 200 V 282 Coling equipment HRX 20 Coling equipment HRX 20 Colong equipment HRX 20 2400 V 282 200 V 282 200 V 282 <	020672	CEA Torch TXH 18.4 4 m - 320 A 100% (DC) - water cooled				≋		≋		≋
TROLEYS Image: Constraint of the prover source, cooling equipment and cylinder 23493 Tolley CT 401 for power source, cooling equipment and cylinder 234941 Tolley CT 75 with 4 rolls for power source, cooling equipment and cylinder 234932 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 234932 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 234932 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 234932 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 234932 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 234932 Tolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 234930 Water cooling equipment HRX 50 200 V # 032150 Water cooling equipment HRX 52 400 V # 032150 Water cooling liquid - 51 Tank # 03070 Tomm? / 4 m Ground cable with clamp # # 239607 35 mm² / 4 m Ground cable with clamp # # 02016 Reducer with 10wmeter and 1 manometer # # # 02018 RS1 - 116 Simple Automation KIT - (Torch trigger - Arc 0n - Current Adj, 0-	020677	CEA Torch TXH 18.4 "UP/DOWN" 4 m - 320 A 100% (DC) - water cooled								
234329 Trolley VT 101 for power source, cooling equipment and cylinder 23431 Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder 234324 Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder 234325 Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder 234325 Trolley CT 80 with 4 rolls for power source, cooling equipment and cylinder 234325 Trolley CT 80 with 4 rolls for power source, cooling equipment and cylinder 23432 Trolley CT 80 with 4 rolls for power source, cooling equipment and cylinder 23432 Water cooling equipment HRX 20 230 V 32130 Water cooling equipment HRX 20 400 V 32300 35 mm² / 4 m Ground cable with clamp 239607 70 mm² / 4 m Ground cable with clamp 329608 R8 Umantion KIT - (Drch trigger - Arc 0n - Current Adj 0-10V) 3318 TiSL Simple Automation KIT - (Drch trigger - Arc 0n - Current Adj 0-10V) 3318 TiSL Simple		For torches with 8 m long cable see tig accessories								
23431 Trolley CT 401 for power source, cooling equipment and cylinder 234931 Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder 234932 Trolley PTT5 with 4 rolls for power source, cooling equipment and cylinder 234932 Trolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 234932 Trolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder 23200 Water cooling equipment HRX 20 230 V 032115 Water cooling equipment HRX 20 200 V 032103 Water cooling equipment HRX 20 200 V 032103 Water cooling equipment HRX 20 200 V 03210 Water cooling equipment HRX 20 200 V 03210 Water cooling equipment HRX 200 V 200 * 03210 Water cooling equipment HRX 200 V 200 * 03210 Yater Ground cable with clamp 200 * 200 * 020916 Reducer with flowmeter and 1 manometer 200 * 200 * 200 * 200 * <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 equipment and cylinder 234923 Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder 234932 Trolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder WATER COOLING water cooling equipment HRX 20 230 V 032120 Water cooling equipment HRX 20 200 V 032130 Water cooling equipment HRX 20 400 V 032130 Water cooling equipment HRX 50 400 V 032130 Stale To for und cable with clamp 200 V 239600 30 mm² / 4 m Ground cable with clamp 200 V 200 V 239601 70 mm² / 4 m Ground cable with clamp 200 V 200 V 200 V 239601 71 m Ground cable with clamp 200 V	234929	Trolley VT 101 for power source, cooling equipment and cylinder		≈		≈			\nearrow	
234928 Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder 234928 Trolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder WATER COOLING Image: Cooling equipment HRX 20 230 V 032120 Water cooling equipment HRX 20 230 V 032130 Water cooling equipment HRX 20 400 V 032130 Water cooling iquid - 51 Tank GROUND CABLES Image: Cooling Cooling Iquid - 51 Tank 0402275A Cea CL-1100 cooling liquid - 51 Tank GROUND CABLES Image: Cooling Cooling Iquid - 51 Tank 032900 38 me? / Am Ground cable with clamp 239607 70 mm? / A m Ground cable with clamp Case REDUCERS Image: Cooling Cooling Iquid - 51 Tank 020916 Reducer with flowmeter and 1 manometer 021917 Omm? / A m Ground cable with clamp 353485 DFX1 - Dust Filter for MATRX X200 / X300 353486 DFX1 - Dust Filter for MATRX X400 / X 500 23643 CD 6/8 m remote control with gaered down potentiometer 20390 AB m remote control with gaered down potentiometer 203919 PSR 7 5 m foot remote control with torch MATRIX X200 AC/DC Suggested air cooled version with torch	234931	Trolley CT 401 for power source, cooling equipment and cylinder								
234932 Trolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder WATER COOLING Image: Cooling equipment HRX 20 230 V 03210 Water cooling equipment HRX 20 400 V 03213 Water cooling equipment HRX 52 400 V 03214 Water cooling equipment HRX 52 400 V 03213 Water cooling equipment HRX 52 400 V 03214 Water cooling equipment HRX 52 400 V 03215 Water cooling equipment HRX 52 400 V 03216 Water cooling equipment HRX 52 400 V 03216 Reducer with flowmeter and 1 manometer 100 020916 Reducer with flowmeter and 1 manometer 100 100 020916 Reducer with flowmeter and 1 manometer 100 100 100 03119 TSA5 TIG Simple Automation KIT - (forch trigger - Arc On - Current Adj. 0-10V) 100 100 03119 TSA5 Dust Filter for MATRIX 2400 / X 500 100	234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder						≈		≋
WATER COOLING Water cooling equipment HRX 20 230 V 032115 Water cooling equipment HRX 30 400 V 032130 Water cooling equipment HRX 52 400 V 032130 Water cooling equipment HRX 52 400 V 402275A Cea CL-1100 cooling liquid - 51 Tank # # GROUND CABLES # # # 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 #	234928	Trolley CT 75 with 4 rolls for power source, cooling equipment and cylinder								
032120 Water cooling equipment HRX 20 20 V 20	234932	Trolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder								
032115 Water cooling equipment HRX 30 400 V 032130 Water cooling equipment HRX 52 400 V 402275A Cea CL-1100 cooling liquid - 5 I Tank # GROUND CABLES # # 239601 35 mm² / 4 m Ground cable with clamp # # 239607 70 mm² / 4 m Ground cable with clamp # # 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 #		WATER COOLING								
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GROUND CABLES Image: Constraint of the constraint of th	032130	Water cooling equipment HRX 52 400 V						≋		≋
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239607 70 mm² / 4 m Ground cable with clamp ● ≈ ● ∞ > > > > ><		GROUND CABLES								
GAS REDUCERS ■ <	239601	35 mm ² / 4 m Ground cable with clamp	٠	≋	٠	≈				
020916 Reducer with flowmeter and 1 manometer ● ≈ ● >	239607	70 mm ² / 4 m Ground cable with clamp					٠	≋		≋
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 DFX1 - Dust Filter for MATRIX X 220 / X 300 353486 DFX5 - Dust Filter for MATRIX X 400 / X 500 236243 CD 6/8 8 m remote control with geared down potentiometer 020919 PSR 7 5 m foot remote control 4600056 Adapter for simultaneous connection of Torch and PSR 7 460005 A6 Connection kit for non-standard Torch MATRIX X 220 AC/DC Suggested air cooled version with torch MATRIX X 200 AC/DC Suggested air cooled version with torch MATRIX X 300 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC		GAS REDUCERS								
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353486 DFX5 - Dust Filter for MATRIX X 400 / X 500	031119	TSA5 - TIG Simple Automation KIT - (Torch trigger - Arc On - Current Adj. 0-10V)								
236243 CD 6/8 8 m remote control with geared down potentiometer 020919 PSR 7 5 m foot remote control 460056 Adapter for simultaneous connection of Torch and PSR 7 460005 A6 Connection kit for non-standard Torch MATRIX X 220 AC/DC Suggested air cooled version with torch MATRIX X 220 AC/DC Suggested air cooled version with torch MATRIX X 300 AC/DC Suggested air cooled version with torch MATRIX X 300 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested air cooled version with torch MATRIX X 400 AC/DC Suggested water cooled version with torch <td>353485</td> <td>DFX1 - Dust Filter for MATRIX X 220 / X 300</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	353485	DFX1 - Dust Filter for MATRIX X 220 / X 300								
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460056 Adapter for simultaneous connection of Torch and PSR 7 Image: Connection kit for non-standard Torch Im	236243	CD 6/8 8 m remote control with geared down potentiometer								
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MATRIX X 220 AC/DC Suggested air cooled version with torch ● <td>460056</td> <td>Adapter for simultaneous connection of Torch and PSR 7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	460056	Adapter for simultaneous connection of Torch and PSR 7								
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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 MATRIX E

MMA CONVENTIONAL

- 90 ARC TRIARC
- 91 ARCTRONIC

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



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

ROCK FEATURES

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

ROCK 210 PRO













ROCK PACKAGE

ROCK FIBER CASE KIT

ROCK 200

ROCK 210 PRO

			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)	А	16	20	25
Power Factor / cos φ		0,63/0,99	0,67/0,99	0,66/0,99
Efficiency Degree		0,82	0,81	0,81
Open circuit voltage	V	72	72	90 - 12 (VRD)
Current range	A	10 - 160	10 - 200	10 - 200
	A 100 %	95	105	110
Duty cycle at (40°C)	A 60 %	105	110	145
	A X %	160 (20%)	200 (10%)	200 (30%)
Standards			EN 60974-1 • EN 60974-10 • S	·
Protection Class	IP	23 S	23 S	23 S
Dimensions (L x W x H)	mm	315 x 135 x 260	315 x 135 x 260	355 x 135 x 260
Weight	Kg	4,3	4,6	6,1



CODE	DESCRIPTION	ROCK 160	ROCK 200	ROCK 210 pro
	POWER SOURCES			
003835	ROCK 160 230 V with 3+3 m 16mm ² cables, electrode-holder pincer, ground clamp and belt	•		
003840	ROCK 200 230 V with 3+3 m 16mm ² cables, electrode-holder pincer, ground clamp and belt			
003845	ROCK 210 PRO 230 V - CELL and VRD with 4+3 m 25mm ² cables, electrode-holder pincer, ground clamp and belt			•
	POWER SOURCES IN FIBER CARRY-CASE WITH ACCESSORIES			
033835	ROCK 160 230V FIBER CASE KIT complete with 3+3 m 16mm ² cables with electrode-holder pincer, ground clamp and belt	•	1	
033840	ROCK 200 230V FIBER CASE KIT complete with 3+3 m 16mm ² cables with electrode-holder pincer, ground clamp and belt		٠	
	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%	•	٠	
	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	٠	٠	
460286	4+3 m 25 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens			•



MATRIX E PROFESSIONAL ALL-ROUNDER FOR MMA WELDING



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

MATRIXE powersources, are recommended for the 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		MATRIX						
TECHNICAL DATA		2200 E 2700 E SV		3000 E	4200 E			
Single Phase Input V 50/60 Hz	+15% -15%	230	-	-	-	-		
Three Phase Input V 50/60 Hz	+15% -15%	-	230	400	400	400		
Input Power @ I2 max	kVA	5.7	8,0	10,5	12,4	19,4		
Delayed Fuse (@ I ₂ 100%)	А	16	16	10	16	20		
Power Factor / cos Φ		0.97/0.99	0,90	/0,99	0,88/0,99	0,83/0,99		
Efficiency Degree V		0,85	0,	80	0,86	0,88		
Open Circuit Voltage	V	100	10	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 18	35 x 390	465 x 185 x 390	500 x 220 x 425		
Weight	kg	12	16	<u>ì,5</u>	15	20		

CONTROL DISPLAY

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



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				
004525	MATRIX 2700 E SV 230 / 400 V - 3 Ph with digital V/A meter TO BE DISCOUNTINUED				
004515	MATRIX 3000 E 400 V - 3 Ph with digital V/A meter				
004548	MATRIX 4200 E 400 V - 3 Ph with digital Ammeter / Voltmeter				
	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	•		•	
236244	CD 6/25 25 m manual remote control	•	•	•	
236249	CD 6/50 50 m manual remote control	•			
	OTHER OPTION[S]				
234912	Transport Trolley CT 10				
031150	Roll bar protection kit				٠
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



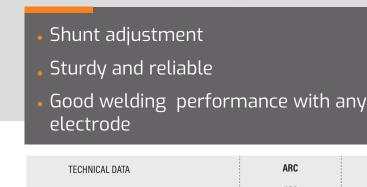
Excellent arc characteristic, product sturdiness and reliability are the main features of **ARC** and **TRIARC** models. Suitable for heavy duty application in maintenance, fabrication works, shipyards and steel construction, these machines ensure a great welding arc stability.

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 maneuverability
- Easy changeover of mains supply voltage by switch
- Welding current and electrode indicator





TECHNICAL DATA		ARC	TRIARC
		453	406/L
Three phase input 50/60 Hz	V + 10% /- 10%	230/400	230/400
Input Power @ I2 Max	kVA	32,5	29,8
Delayed Fuse (I eff)	A	63/35	50/32
Power Factor / cos φ		0,99	0,99
Efficiency Degree		0,68	0,66
Open circuit voltage	V	75	75
Current range	A	70 - 450	60 - 400
	A 100 %	230	230
Duty cycle at (40°C)	A 60 %	300	300
	A 35 %	400	400
Standards		EN 60974-1 • E	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

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ORDER INFORMATION

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%	•	•

(*) To be discontinued

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 electrode

TECHNICAL DATA		ARCTRONIC
		626
Three phase input 50/60 Hz	V +10% /- 10%	230/400
Input Power @ I2 Max	kVA	47,4
Delayed Fuse (I eff)	А	80/45
Power Factor / cos Φ		0,75/0,80
Efficiency Degree		0,65
Open circuit voltage	V	64
Current range	А	5 - 600
	A 100 %	330
Duty cycle at (40°C)	A 60 %	430
	A 35 %	600
Standards		EN 60974-1 • EN 60974-10 • 🗵
Protection Class	IP	23 S
Dimensions (L x W x H)	mm	1260 x 730 x 615
Weight	Kg	196

CODE	DESCRIPTION	ARCTRONIC 626
	POWER SOURCES	
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 (**)	•
	TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE	
020568	Torch RTX 26.4 4 m - 180 A 35%	•

(*) To be discontinued

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





- 94 30 YEARS ROBOTIC EXPERIENCE
- 95 WELDING & ROBOTICS
- 96 ROBOT SOLUTION DIGITEC
- 99 COBOT SOLUTION DIGITEC
- 100 ROBOT TIG DC SOLUTION
- 101 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.



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

RI-A1



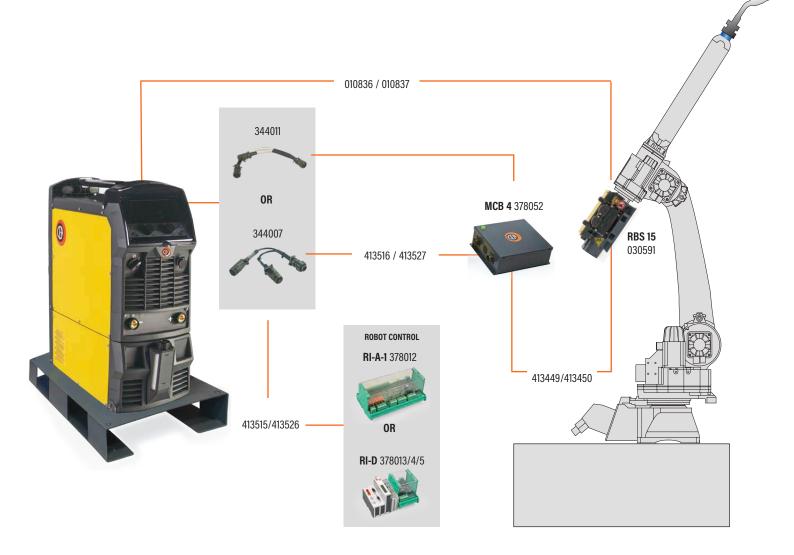
MCB4

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

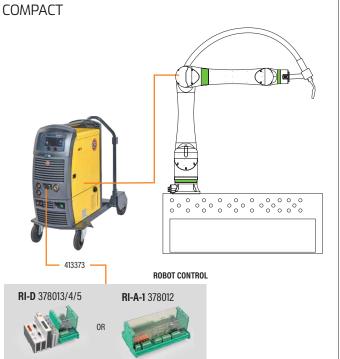




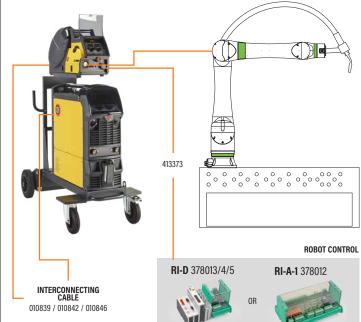


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030593 Robot Wire Feeder RBS 15 with "L" Connect. 4 rolls (Ø 1,0/1,2) Image: Connect Connecon Connecon Connect Connect Connecon Connect Connect	030591	Robot Wire Feeder RBS 15 with Euro Connect. 4 rolls (Ø 1,0/1,2)	≈	≋
ROBOT INTERFACE Analogic/Digital Analogic Analogic 378012 Robot Interface RI-A1 Analogic/Digital Analogic Analogic 378013 Robot Interface RI-DD DeviceNet DeviceNet DeviceNet 378014 Robot Interface RI-DD EtherNet/IP EtherNet/IP EtherNet/IP 378015 Robot Interface RI-DD ProfiNet Profi ROBOTICS PACKAGE ProfiNet Profi 378052 MCB 4 - Motor Control Box ≈ ≈ ≈ 378055 MCB 4 - Motor Control Box ≈ ≈ ≈ ≈ 413449 5 m Interconnecting cable Wire Feeder - MCB 4 ∞ ∞ ≈ ≈ 413449 5 m Interconnecting cable Wire Feeder - MCB 4 ∞ ∞ ≈	030593			
378013 Robot Interface RI-DD DeviceNet Devic 378014 Robot Interface RI-DE EtherNet/IP EtherNet/IP 378015 Robot Interface RI-DP ProfiNet Profi 378016 ROBOTICS PACKAGE ProfiNet Profi 378015 Robot Interface RI-DP ProfiNet Profi R0BOTICS PACKAGE INTERCONNECTING CABLES KIT AND CONNECTOR KIT INTERCONNECTING CABLES KIT AND CONNECTOR KIT INTERCONNECTING cable Wire Feeder - MCB 4 Image: Cable Wire Feeder - MCB 4<				
378013 Robot Interface RI-DD DeviceNet Devic 378014 Robot Interface RI-DE EtherNet/IP EtherNet/IP 378015 Robot Interface RI-DP ProfiNet Profi 378016 ROBOTICS PACKAGE ProfiNet Profi 378015 Robot Interface RI-DP ProfiNet Profi R0BOTICS PACKAGE INTERCONNECTING CABLES KIT AND CONNECTOR KIT INTERCONNECTING CABLES KIT AND CONNECTOR KIT INTERCONNECTING cable Wire Feeder - MCB 4 Image: Cable Wire Feeder - MCB 4<	378012		Analogic	Analogic
378015 Robot Interface RI-DP ProfiNet Profi ROBOTICS PACKAGE 378052 MCB 4 - Motor Control Box ≈ ≈ ≈ INTERCONNECTING CABLES KIT AND CONNECTOR KIT 413449 5 m Interconnecting cable Wire Feeder - MCB 4 ≈ ≈ ≈ 413450 10 m Interconnecting cable Wire Feeder - MCB 4 344007 Connector cable kit to link Power source with MCB 4 - interface(R1) to be used with 413516 or 413527 344001 Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (R1) ≈ ≈ ≈ ≈ 413526 5 m Interconnecting cable Power source - Robot Interface			v	DeviceNet
378015 Robot Interface RI-DP ProfiNet Profi ROBOTICS PACKAGE ≈ ≈ ≈ 378052 MCB 4 - Motor Control Box ≈ ≈ ≈ INTERCONNECTING CABLES KIT AND CONNECTOR KIT 413449 5 m Interconnecting cable Wire Feeder - MCB 4 ≈ ≈ ≈ 344007 Connector cable kit to link Power source with MCB 4 - interface(RI) to be used with 413516 or 413527 344007 Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI) ≈ ≈ ≈ 413526 5 m Interconnecting cable Power source - Robot Interface ≈ ≈ ≈ ≈ 413515 10 m Interconnecting cable Power source - Robot Interface 413515 10 m Interconnecting cable Power source - MCB 4 413515 10 m Interconnecting cable Power source - MCB 4 413516 10 m Interconnecting cable Power source - MCB 4 413516 10 m Interconnecting cable Power source - MCB 4	378014	Robot Interface RI-DE EtherNet/IP	EtherNet/IP	EtherNet/IP
378052 MCB 4 - Motor Control Box ≈ ≈ ≈ INTERCONNECTING CABLES KIT AND CONNECTOR KIT 10 113449 5 m Interconnecting cable Wire Feeder - MCB 4 ≈ ≈ ≈ 413450 10 m Interconnecting cable Wire Feeder - MCB 4 ≈ ≈ ≈ ≈ 344007 Connector cable kit to link Power source with MCB 4 - interface(R1) to be used with 413516 or 413527 10 10 11 Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI) ≈				ProfilNet
INTERCONNECTING CABLES KIT AND CONNECTOR KIT ■ 413449 5 m Interconnecting cable Wire Feeder - MCB 4 ■ 413450 10 m Interconnecting cable Wire Feeder - MCB 4 ■ 344007 Connector cable kit to link Power source with MCB 4 - interface(R1) to be used with 413516 or 413527 ■ 344011 Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI) ■ ■ 413526 5 m Interconnecting cable Power source - Robot Interface ■ ■ 413515 10 m Interconnecting cable Power source - Robot Interface ■ ■ 413527 2 m Interconnecting cable Power source - MCB 4 ■ ■ 413515 10 m Interconnecting cable Power source - MCB 4 ■ ■ 413516 10 m Interconnecting cable Power source - MCB 4 ■ ■ 032125 Water cooling equipment HRX 51 400 V ■ ■ ■ 032125 Water cooling equipment HRX 51 400 V ■ ■ ■ 032125 Water cooling equipment HRX 51 400 V ■ ■ ■ 032125 Water cooling liquid - 5 I Tank ■ ■ ■ ■ 08007 70 mm		ROBOTICS PACKAGE		
413449 5 m Interconnecting cable Wire Feeder - MCB 4 ≈ ≈ ≈ 413450 10 m Interconnecting cable Wire Feeder - MCB 4 344007 Connector cable kit to link Power source with MCB 4 - interface(RI) to be used with 413516 or 413527 344011 Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI) ≈ ≈ ≈ 413526 5 m Interconnecting cable Power source - Robot Interface ≈ ≈ ≈ ≈ 413515 10 m Interconnecting cable Power source - Robot Interface ≈	378052	MCB 4 - Motor Control Box	*	≋
413450 10 m Interconnecting cable Wire Feeder - MCB 4 344007 Connector cable kit to link Power source with MCB 4 - interface(RI) to be used with 413516 or 413527 344011 Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI) ≈		INTERCONNECTING CABLES KIT AND CONNECTOR KIT		0 1 1
344007 Connector cable kit to link Power source with MCB 4 - interface(RI) to be used with 413516 or 413527 344011 Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI) ≈	413449	5 m Interconnecting cable Wire Feeder - MCB 4	*	≋
344011 Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI) ≈ ≈ ≈ 413526 5 m Interconnecting cable Power source - Robot Interface ≈ ≈ ≈ ≈ 413515 10 m Interconnecting cable Power source - Robot Interface ∞ ∞ ≈ ≈ 413517 2 m Interconnecting cable Power source - MCB 4 ∞ ∞ ∞ ∞ 413516 10 m Interconnecting cable Power source - MCB 4 ∞ ∞ ∞ ∞ WATER COOLING ∞ ∞ ∞ ∞ ∞ ∞ ∞ 032125 Water cooling equipment HRX 51 400 V ∞	413450	10 m Interconnecting cable Wire Feeder - MCB 4		
413526 5 m Interconnecting cable Power source - Robot Interface ≈ ≈ 413515 10 m Interconnecting cable Power source - Robot Interface 413527 2 m Interconnecting cable Power source - MCB 4 413516 10 m Interconnecting cable Power source - MCB 4 413516 10 m Interconnecting cable Power source - MCB 4 WATER COOLING 032125 Water cooling equipment HRX 51 400 V ≈ ≈ 402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ ≈ GROUND CABLES 239607 70 mm2 / 4 m Ground cable with clamp ≈ ≈	344007	Connector cable kit to link Power source with MCB 4 - interface(R1) to be used with 413516 or 413527		
413515 10 m Interconnecting cable Power source - Robot Interface 10 413527 2 m Interconnecting cable Power source - MCB 4 10 413516 10 m Interconnecting cable Power source - MCB 4 10 WATER COOLING 10 032125 Water cooling equipment HRX 51 400 V ≈ 402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ GROUND CABLES 239607 70 mm2 / 4 m Ground cable with clamp ≈	344011	Connector cable kit to link Power source with MCB 4 (fixed on power source) - interface (RI)	≋	≋
413527 2 m Interconnecting cable Power source - MCB 4 413516 10 m Interconnecting cable Power source - MCB 4 WATER COOLING 032125 Water cooling equipment HRX 51 400 V ≈ ≈ 402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ ≈ GROUND CABLES 239607 70 mm2 / 4 m Ground cable with clamp ≈ ≈	413526	5 m Interconnecting cable Power source - Robot Interface	≋	≋
413516 10 m Interconnecting cable Power source - MCB 4	413515	10 m Interconnecting cable Power source - Robot Interface		
WATER COOLING Image: Colored	413527	2 m Interconnecting cable Power source - MCB 4		
032125 Water cooling equipment HRX 51 400 V ≈ ≈ 402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ ≈ GROUND CABLES ≈ 239607 70 mm2 / 4 m Ground cable with clamp ≈ ≈	413516	10 m Interconnecting cable Power source - MCB 4		
402275A Cea CL-1100 cooling liquid - 5 I Tank ≈ <td></td> <td></td> <td></td> <td></td>				
GROUND CABLES Ground cable with clamp ≈ ≈	032125	Water cooling equipment HRX 51 400 V	≋	≋
239607 70 mm2 / 4 m Ground cable with clamp ≈ ≈	402275A	Cea CL-1100 cooling liquid - 5 l Tank	≋	≋
		GROUND CABLES		
TOOL EV AND CUDDODT DACE	239607	70 mm2 / 4 m Ground cable with clamp	≈	≋
		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)	234914			
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	030949			
DIGITECH 4003 VP3 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version EtherNet/IP			EtherNet/IP	
DIGITECH 5003 VP3 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version Ethern		DIGITECH 5003 VP3 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version		EtherNet/IP





SEPARATED WIRE FEEDER



CODE	DESCRIPTION	DIGITECH 3200
	POWER SOURCES	
004700	Power Source DIGITECH 3200 VP2 400 V (4 rolls for wire Ø 0,8/1,0 mm)	≋
	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 (SP2)	
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 (Ø: 1,0/1,2) and gears kit for Al wires	
	WATER COOLING	
032098	Water cooling equipment HR 32 400 V	≋
402275A	Cea CL-1100 cooling liquid - 5 l Tank	≋
	ROBOTICS PACKAGE	
378012	Robot Interface RI-A 1 Analogic/Digital	Analog
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	≋
	GROUND CABLES	
239603	50 mm ² / 4 m Ground cable with clamp	≋
	TROLLEY AND SUPPORT BASE	
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)	
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 - ETHERNET/IP Interface COMPLETE PACKAGE Suggested version	EtherNet

ORDER INFORMATION

	DESCRIPTION	DIGITECH 4003 VP3	DIGITECH 5003 VP3
	POWER SOURCES		
004708	Power Source DIGITECH 4003 VP3 400 V	≋	
004713	Power Source DIGITECH 5003 VP3 400 V		≋
	SPECIAL VERSIONS - POWER SOURCE FITTED WITH SOFTWARE		
004708PR	Power source DIGITECH 4003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket		
004713PR	Power source DIGITECH 5003 VP3 PREMIUM 400 V with vision.FULL PACKAGE and Ethernet socket		
	SOFTWARE FOR SPECIAL MIG/MAG PROCESS		
050002	SMI - 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. (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		
	INTERCONNECTING CABLES		
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	≈	≋
010842	5 m Air / Water cooled Interconnecting cable		
010846	10 m Air / Water cooled Interconnecting cable		
	WIRE FEEDER		
030716	Wire Feeder HT 6 PRO DRIVE with Euro Connection 4 rolls (Ø 1,0/1,2)	≈	≋
031116	WK 4 standard wheels kit for HT 6 PRO DRIVE feeder		
031007	WK 2 extra-large wheels kit for HT 6 PRO DRIVE feeder		
	WATER COOLING		
032125	Water cooling equipment HRX 51 400 V	≈	≈
402275A	Cea CL-1100 cooling liquid - 5 Tank	≋	≋
	ROBOTICS PACKAGE		
378012	Robot Interface RI-A1 Analogic/Digital	Analog	Analog
on demand	Robot Interface RI-DM Modbus	Modbus	Modbus
378013 378014	Robot Interface RI-DD DeviceNet Robot Interface RI-DE EtherNet/IP	DeviceNet EtherNet	DeviceNet EtherNet
378014	Robot Interface RI-DP ProfiNet	ProfiNet	ProfiNet
413373	2 m Interconnecting cable Power source - Robot Interface	≈	≈
10070	GROUND CABLES	~	~
239607	70 mm2 / 4 m Ground cable with clamp	≈	≈
200001	TROLLEY AND SUPPORT BASE		
031165	Support Base SB1 for Power source		
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment 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 (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		
	DIGITECH 4003 VP3 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version	EtherNet	
	DIGITECH 5003 PV3 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version		EtherNet

(**) On request

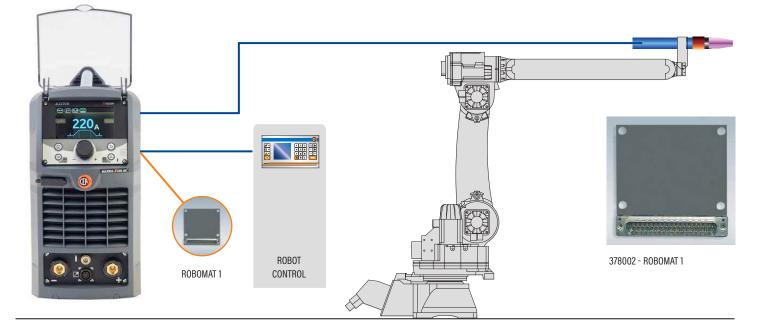






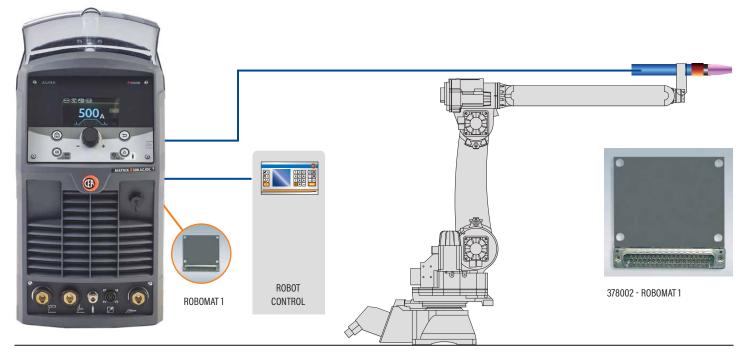
ROBOT TIG DC SOLUTION

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 the start/stop signals of the process and main welding parameter adjustments.



CODE	DESCRIPTION		TRIX HF-R		TRIX HF-R		TRIX) HF-R		TRIX) HF-R
		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		≋						\sim
032098	Water cooling equipment HR 32 400 V				≋				
032120	Water cooling equipment HRX 20 230 V						≋		
032115	Water cooling equipment HRX 30 400 V								≋
031166	Adaptor Plate Kit for Matrix 4200 if used with CT 401 and HR 32				≋				
402275A	Cea CL-1100 cooling liquid - 5 l Tank		≋		≋		≋		_ ≈
	ROBOTICS PACKAGES			-					
413508	5 m Interconnecting cable ROBOMAT 1 / automatic equipment	•	≋		≋		≋		≋
378002	Robot Interface ROBOMAT 1	٠	≋		≋		≋		≋
	GROUND CABLES								
239601	35 mm² / 4 m Ground cable with clamp	٠	≋				≋		≋
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 equipment and cylinder				≋				
	OTHER OPTION								
460005	A6 Connection kit for non-standard Torch		≋		≋		≋		≈
	MATRIX 3000 HF-R robot use complete package Suggested air cooled version	•							
	MATRIX 3000 HF-R robot use complete package Suggested water cooled version		≋						
	MATRIX 4200 HF-R robot use complete package Suggested air cooled version								
	MATRIX 4200 HF-R robot use complete package Suggested water cooled version				≋				
	MATRIX X 220 HF-R robot use complete package Suggested air cooled version								
	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/DC SOLUTION



CODE	DESCRIPTION	AC/DC-R			MATRIX X 220 AC/DC-R		X X 300 DC-R		X X 400 DC-R	MATRIX X 500 AC/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		≋		≋		≋		≋		≈
	ROBOTICS PACKAGES	1		-			1				
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	1					1				
234914	Trolley CT 70 with 4 rolls for power source, cooling equipment and cylinder								≋		≈
234932	Trolley PRIME CT 80 with 4 rolls for power source, cooling equipment and cylinder										
	OTHER OPTION										
460005	A6 Connection kit for non-standard Torch		≋		≋		≈		≋		≋
	MATRIX 3000 AC/DC-R complete package air cooled										
	MATRIX 3000 AC/DC-R complete package water cooled		≋								
	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 strong industry REVOLUTION stre stem Adaptability effectiveness CPPS FERNET OF THINGS QUALIT Any time GATEWAY Any Device

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CEA NETWORK Anything WELDING NETWORK AND CLOUD COMPUTER RED

> APPLIC III APPLIC III APPLIC III APPLIC III Artificial rules based intelligence Rea ERAMEWORK ANY COMREEX SYSTEM STANDARDIZED ANY time CHOOSE Basis Individualize PRO Basis Individualize PRO Basis Individualize PRO Basis Individualize PRO Basis

ROBOTS BINARY DECODES technology ortal Everything-0101PH ATIC CO104



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NDUSTRY

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).



- Domoto auto, diagnostio system
- Remote auto-diagnostic system.



CQM CEA QUALITY MANAGER



QUALITY CONTROL AND PARAMETER PRINTING

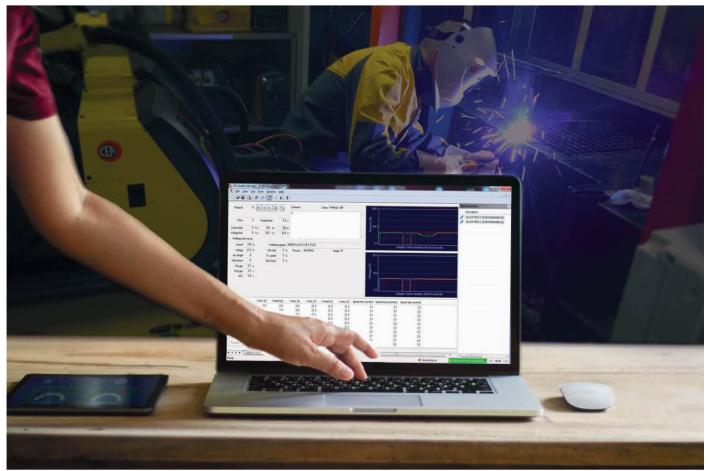
CQM "CEA QUALITY MANAGER" software has been developed by CEA to enable welding data recording, monitoring and printing by means of an external computer connected to one or more power sources of DIGITECH series.

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

CEA QUALITY MANAGER is a very useful tool for:

- satisfying welding documentation requirements as prescribed by the buyers and by international norms such as EN 1090
- checking and monitoring the welding process
- creating sheets and work procedures from laboratory to be transferred to production
- generating welding job printout sheets

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







RECORDING

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



PRINTING

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



WELDING PARAMETER CONTROL

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



BAR CODE READER

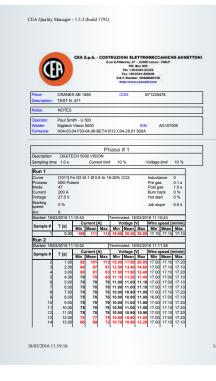
Get the workflow of your company even faster. Don't want to waste time in creating the registration setting on the PC? Add the BAR CODE READER option to your DIGITECH and create a more detailed recording file in an extremely fast and easy way, directly from the machine.



ETHERNET CONNECTION

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





Sample #	T [s]		irrent [ltage			peed [
		Min	Mean			Mean			Mean	
189	16.00	185					25.10		10.00	
190	17.00						25.00		10.00	
191 192	18.00						25.00		9.90	10.00
192	19.00 20.00						25.00 25.00			10.10
193	21.00						25.00			10.00
194	21.00						25.00			10.00
195	22.00						25.00		10.00	
197	24.00			186	24.00	25.00	25.00	9.90	10.00	
198	25.00						25.00			10.00
199	26.00						25.00		10.00	
200	27.00						25.00			10.00
201	27.40		185				25.00		10.00	
tun 11										
Started: 18	03/2016 11	:15:05		ľ	Fermina	ated: 18	3/03/20	16 11:1	5:11	
Sample #	W (-1	C	irrent [A]	Vo	ltage	M	Wire s	peed [n/min]
	T [s]	Min	Mean	Max	Min	Mean	Max		Mean	
202	1.00	89	93	97		16.60			10.00	
203	2.00									
		88	90	100		20.80			10.00	
204	3.00	108	134	153	25.80	26.40	27.10	9.90	9.90	10.00
204 205	3.00 4.00	108 156	134 166	153 173	25.80 25.30	26.40 25.50	27.10 25.80	9.90 9.90	9.90 10.00	10.00 10.00
204 205 206	3.00 4.00 5.00	108 156 174	134 166 178	153 173 181	25.80 25.30 25.10	26.40 25.50 25.20	27.10 25.80 25.30	9.90 9.90 9.90	9.90 10.00 10.00	10.00 10.00 10.00
204 205 206 207	3.00 4.00 5.00 6.00	108 156 174 181	134 166 178 183	153 173 181 184	25.80 25.30 25.10 25.00	26.40 25.50 25.20 25.10	27.10 25.80 25.30 25.10	9.90 9.90 9.90 9.90	9.90 10.00 10.00 10.00	10.00 10.00 10.00 10.00
204 205 206 207 208	3.00 4.00 5.00	108 156 174	134 166 178	153 173 181	25.80 25.30 25.10 25.00	26.40 25.50 25.20 25.10	27.10 25.80 25.30 25.10	9.90 9.90 9.90 9.90	9.90 10.00 10.00 10.00	10.00 10.00 10.00
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8/03/2016 11:19:16



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CWM CEA WELDER MANAGER

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WELDER STATUS CONTROL AND WELDING JOB DUPLICATION

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

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

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



WELDING MONITORING

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



PROBLEM CHECKING

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



JOB CLONE

Don't waste time for replicating the same job on any additional DIGITECH power source. Just clone one setting from one machine to another directly from 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 the exact same parameters into other power sources, with the risk of making involuntary mistakes.

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

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

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



CEA CALIBRATION SERVICE

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

WHAT IS CALIBRATION?

In arc welding processes, 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.

WHY TO CALIBRATE?

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

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

CEA CALIBRATION

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

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

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

C.so Emar 23900 Lec Tel. +39 0	CEA Cso Emanuele Filberto, 27 23900 Lecco • Italia Tel. + 39 0341 22322 Fax + 39 0341 422646 Calibration certificate No: CEA 2015 001									2	27/10/2015 27/10/2015 27/10/2015 27/10/2016		
Calibration certit	ficate No	: C	EA 2	015 001									
Customer:													
Addresses:	Addresses:												
BASIC INFORMA	TIONS						_						
Type of unit:		М	IG /	MAG welding	g mach	ine wi	ith se	eparate	e wire	e feeder			
Power source:	DIGITE	CH 500	0 VIS	ION PULSE	Seria	l num	ber:	: YI	YB 107 011				
Control panel:	DH 50				Serial number:				FX 00206104080100				
Wire feeder:	HT 5			Serial number: YD 251 02					1 020)			
General notes:	Wire Fe	e d=1.	0mm	n – Connectio	on cabl	e 10m	1t – 1	Forch (C350	4mt			
CALIBRATION S	PECIFIC	CATIO	NS										
Equipment funct	ion und	er tes	t:	VOLTAGE	CURF	RENT WIRE SPEED DISPLAYS							
Validation metho	od:			Convention	Conventional load resistor – MIG/MAG (CV) / rotary transducer								
Validation type:	Accu	iracy	x	Consistenc	у								
Validation grade	: Stan	dard	x	Precision		ĺ		Valid	atio	n range:	Full r	ange	
Power source ra max current:	ted	500A		Power sou current:	rce ra	ted m	in	10A		Power so voltage:	ource no	_load	70V
Max allowed error display A (±2.5 %		± 12.	5 A	Max allowe display V (± 1.7	5 V				
Wire feed speed min value:	rated	0.6 m/m					25 'min		x allowed e wire feed s		± 10 % value	of set	
TEST CONDITIO	NS												
Ambient tempera	ature:	25	°C	Input volta	ge:	400	V	Input	volta	age freque	ncy:	4	50Hz

SET PO	DINTS			VC	LTMET	ER				AMMETE	ર	
V ₂	l ₂		MEASURED VOLTAGE	AVERAGE MEASURED VOLT	DISPLAY V IND	AVERAG DISP INI		MEASURED	AVERAGE MEASUED CURRENT	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	13.15	5 0.04	9,34	9.27	9	9,0	-0,27
14,0	10	MEAS 1,2	12,87	13,11	13,0	13,10	5 0,04	9,20	9,27	9		
20.25	125	MEAS 2,1	20,82	20.82	20,8	20,80	0,02	125,80	125.67	125	125,0	-0,67
20,25	125	MEAS 2,2	20,82	20,02	20,8			125,54	125,67	125		
26.5	250	MEAS 3,1	27,33	27,24	27,3	27,25	5 0.01	251,20	251,00	250	250,0	-1,00
20,5	250	MEAS 3,2	27,15	21,24	27,2	21,23	5 0,01	250,80	251,00	250		
20.75	375	MEAS 4,1	33,00	32,90 32,9 3		22.00	5 -0.05	375,80	275 50	375	375,0	-0,50
32,75	375	MEAS 4,2	32,80	32,90	32,8	32,85	-0,05	375,20	375,50	375		
00.0	500	MEAS 5,1	40,40	40,40 40.15 40,5 40		40.25	5 0.10	499,60	499.50	500	500.0	0.50
39,0	500	MEAS 5,2	39,90	40,15	40,0	40,23	5 0,10	499,40	499,50	500	500,0	0,50
SET PC	INTS				WIR	E SPEI	ED METE	R				
WIRE S	PEED		MEASURE WIRE SPEE			SPLAY E SPEED	AVERAGE DISP IND	MAX ALLOWED ERROR) ERRO	DR		
[m/m	in]		[m/min] [m/m	nin] [m	/min]	[m/min]	[m/min] [m/m	in]		
		MEAS 1,1	0,5	0.5	<u> </u>	0,6				<i>c</i>		
0,6)	MEAS 1,2	0,5	0,5	0	0,5	0,6	± 0,06	0,0	5		
	,	MEAS 2,1	6,6	0.00		6,60 6,6			0,0	0		
6,7		MEAS 2,2	6,6	0,0	0	6,6	6,6	± 0,67				
10	<u>_</u>	MEAS 3,1	12,5	40.0	1	2,8	40.0			<u>_</u>		
12,	8	MEAS 3,2	12,7	12,6	1	2,8	12,8	± 1,28	0,2	U		
10	<u>^</u>	MEAS 4,1	18,3	10	1	8,9	18.9	. 1.00	0.5	0		
18,	9	MEAS 4,2	18,5	18,4	10	8,9	18,9	± 1,89	0,5	0		
		MEAS 5,1	24,3		2	25,0				-		
25,	0	MEAS 5,2	24,3	24,3	30 2	24,9	25,0	± 2,50	0,6	5		
CALIBR	ATION	EQUIPMEN	T									
RE	F			D	ESCRIF	TION				CAL D	ATE EX	PIRE
CEA E	153	SMP 1286	- LOAD	RESIST	OR AN	D ROT	ARY TRA	NSDUC	ER	J.	AN 2016	
CEA N	ID39	FLUKE 77	- MULT	IMETER	FOR W	VELDIN	NG VOLT	AGE		0	CT 2016	
CEA E	138	CURRENT	SENSC	R – 100	00A 5V 1	1%				J.	AN 2016	
CEA N	ID47	METRAHI	rpro –	MULTIN	IETER F	OR W	ELDING	CURREN	T	J.	AN 2016	
		RESULT		-		-	_ 0			Homeccanici IBERTO, 27		i S.p.A
RESULT		Passed	х	Faile	d							
WORK F	PERFOR	RMED BY:	R. \	/ALSEC	СНІ	SIC	SIGNATURE: Rom Vilu					



With effect from 1st July 2014 it is compulsory to comply with the 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 8g/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 stores.

EXC 3:

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

EXC 4:

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

HOW CEA CAN HELP YOU

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

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

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



CODE	DESCRIPTION
	CWM&CQM for DIGITECH
031108	CWM - CEA WELDER MANAGER Software tools to be installed on PC (No license for power source required)
031105	CQM - CEA QUALITY MANAGER Software tools complete with CWM - CEA WELDER MANAGER Software tools to be installed on PC. (License for Power source must be ordered separately) (***)
050062	Unitary License for any single power source to be connected and used with CQM
031106	Ethernet Adaptor KIT for power source
	Technical support on site for training and first set up of the system
	(***) To exploit the maximum potential of the CQM system with a QR/Barcode reader, it is necessary to use the CQM with the special DIGITECH PREMIUM 4.0 power sources (see below). These equipments are already prepared by CEA before delivery to be connected to the QR reader/Barcodes. It is also possible - if needed - to connect these special

power sources to a WiFi NETWORK by adding the part no. 031101. Note: this feature cannot be implemented afterwards on any equipment different from version DIGITECH 4.0.

(**) On request

INDUSTRY 4.0

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

(**) On request

	Ethernet Socket	USB socket for QR reader	USB socket for WIFI	CWM	СQМ	Wireless QR reader	WIFI Connection kit
Digitech	0			0	0		
Digitech PREMIUM	Х			0	0		
Digitech 4.0	Х	Х	Х	0	0	0	0
Digitech 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 CONVEX/DIGITECH Range - Italian
051005	Collection of WPQR & WPS for CONVEX/DIGITECH Range - English
051010	Collection of WPQR & WPS for CONVEX/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

- 112 WIRE FEEDERS
- 113 WIRE FEEDER ACCESSORIES
- 114 FEEDING ROLLS TABLE
- 116 MIG TORCHES
- 121 WATER COOLERS
- 121 INTERCONNECTING CABLES
- 122 TROLLEYS
- 122 GROUND CABLES
- 123 GAS REDUCERS
- 123 OTHER ACCESSORIES

TIG ACCESSORIES

- 124 TIG TORCHES
- 126 TROLLEYS
- 126 GROUND CABLES
- 126 GAS REDUCERS
- 127 WATER COOLERS
- 127 OTHER ACCESSORIES

MMA ACCESSORIES

- 128 MMA TORCHES
- 128 OTHER ACCESSORIES



WIRE FEEDERS

MIG ACCESSORIES







MF4





ORDER INFORMATION

MINI MF4



WF6



QF7 W PRO DRIVE



WF7



HT6 PRO DRIVE



YARD 4

MF4 YARD

SWF

CODE	DESCRIPTIONS	MAXII	MAXIQ	QYARD	QUBOX	DIGITECH	MAXI
	WIRE FEEDERS						
030635	Closed Wire Feeder WF 5 with 4 rolls (Ø 1,0 / 1.2)	•					•
030755	Closed Wire Feeder SWF STRONG FEEDER with 4 rolls (Ø 1,0 / 1.2)	•					•
030636	Wire Feeder WF 6 with 4 rolls (Ø: 1,0 / 1,2)	•		1			٠
030637	Wire Feeder WF 7 with 4 rolls (0: 1,0 / 1,2) with V adjustment	٠		1			
030730	Wire Feeder MF 4 Hybrid Synergic [®] with 4 rolls (0: 1,0 / 1,2) Air cooled version		٠				
030735	Wire Feeder MF 4 W Hybrid Synergic ^R with 4 rolls (0: 1,0 / 1,2) Water cooled version		٠			-	
030731	Wire Feeder MF 4 yard with 4 rolls (0: 1,0 / 1,2) Air cooled			٠			
030736	Wire Feeder MF 4 W yard with 4 rolls (0: 1,0 / 1,2) Water cooled			٠			
030726	Wire Feeder QF 7 W PRO DRIVE with 4 rolls (Ø: 1,0 / 1,2)				٠		
030716	Wire Feeder HT 6 PRO DRVE with 4 rolls (Ø 1,0 / 1.2)					٠	
	YARD WIRE FEEDERS - 200 mm SPOOL						
030727	Wire Feeder Mini MF 4 yard with A/V and Flowmeter 4 rolls (0: 1,0 / 1,2) Air cooled			٠			
030728	Wire Feeder Mini MF 4 W yard with A/V and Flowmeter 4 rolls (0: 1,0 / 1,2) Water cooled			٠		1	
030724	Wire Feeder YARD 4 with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Air cooled				٠		
030729	Wire Feeder YARD 4 W with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Water cooled				٠	0 	

WIRE FEEDER ACCESSORIES

MIG ACCESSORIES







HK1 / HK2



TS1 - TORCH SUPPORT KIT



WK4



ADAPTOR SOCKET FOR MMA



SPOOL COVER TR2 TR4



WF WHEELS KIT W. FASTENING PLATE



DOUBLE FEEDER SUPPORT HT6



FASTENING PLATE FOR WF5



MXi

CODE	DESCRIPTIONS	MF4	MF4W	MF4 YARD	MF4 W YARD	QF7 W PRO DRIVE	YARD 4	YARD 4 W	HT6 PR0 DRIVE	WF5	SWF	WF6 / WF7
	WHEELS KIT											
031007	WK 2 extra-large wheels kit	•		٠	٠	•						٠
031116	WK 4 standard wheels kit	•	٠	٠	٠	•			•			
030927	WF 5 WHEELS KIT with fastening plate (030887)									٠		
	OTHER ACCESORIES											
031117	HK 1 - Hanging Kit	•	٠	٠	٠	٠			٠			
031122	HK 2 - Hanging Kit											٠
400034	ADAPTOR socket for MMA			٠	٠							
030873	Support and connection kit for double HT6 wire feeder for Digitech VP2								•			
031120	Support and connection kit for double HT6 wire feeder for Digitech VP3								٠			
030887	Fastening plate to fix interconnective cable to WF5									٠		
031009	"MXi" to connect water cooled interconnecting cable to wire feeder											•
031124	TS1 - Torch support KIT											٠
420430	Complete spool cover for TR2 and TR4		1		1		1			1		



FEEDING ROLLS TABLE

FEEDER MECHANISMS IN PRODUCTION



A



COMPACT 270 COMPACT 310 COMPACT 240M



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



WF 4 DF 4 TA 4 ES 4 - ES 5 DIGITECH 300 MAXICOMPACT 324 - 404 MCS 324 Synergic MCS 404 Synergic





* The machine models in bold are in production

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



CODE	Ø WIRE mm	MATERIAL	TYPE OF ROLL	Quantity per FEEDER										
CODE	WINE IIIII	WATENIAL	I TPE OF HULL	А	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	1								
459174	1,0 - 1,2	Steel	Motor			1								
458930	0,8 - 1,0	Aluminium	Motor		2									
458935	1,0 - 1,2	Aluminium	Motor		2									
458945	1,2 - 1,6	Aluminium	Motor		2									
458950	1,0 - 1,2	Flux cored	Motor		2		2	2						
458955	1,2 - 1,6	Flux cored	Motor		2		2	2						
458965	1,6 - (2,0) - 2,4	Flux cored	Motor		2		2	2						
458979	0,8 twin	Aluminium	Idle					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		1 1 1		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		1 1 1				2					
422923	All	All	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				
459003	1,0 - 1,2	Steel	Motor	 					2	2				
459004	1,0 - 1,2	Steel	Motor	 					2					
459000	1,2 - 1,8	Aluminium	Idle	 					2					
			Idle	 					2					
459011	1,2 twin	Aluminium		 										
459013	1,0 twin	Aluminium	Motor	 					2					
459014	1,2 twin	Aluminium	Motor						2	2				
459055	0,8 - 1,0	Aluminium	Motor							2				
459056	1,2 - 1,6	Aluminium	Motor	 					0					
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					
459023	1,2 twin	Flux cored	Motor	 					2					
459024	1,6 twin	Flux cored	Motor						2					

FEEDER MECHANISMS OF EQUIPMENT OUT OF PRODUCTION



SMARTMIG M20 SMARTMIG T21









TR 50 MONOFIL EUROFIL EUROCOMPACT 320



Μ

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

ODE	Ø WIRE mm	nm MATERIAL	TYPE OF ROLL		Quantity per FEEDER									
			· · · · · · · · · · · · · · · · · · ·	Н	1	L	М	N	0					
59250	0,6 - 0,8	Steel / FCW	Motor	1										
59251	0,8 - 1,0	Steel / FCW	Motor	1										
59261	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						
159244	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						
459080	1,0	Aluminium	Idle				1	4						
459087	1,0	Aluminium	Idle				1	4						
								4						
459089	1,6	Aluminium	Idle				1	4	0					
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 ORDER INFORMATION

CEA C TORCH



UP/DOWN TORCH

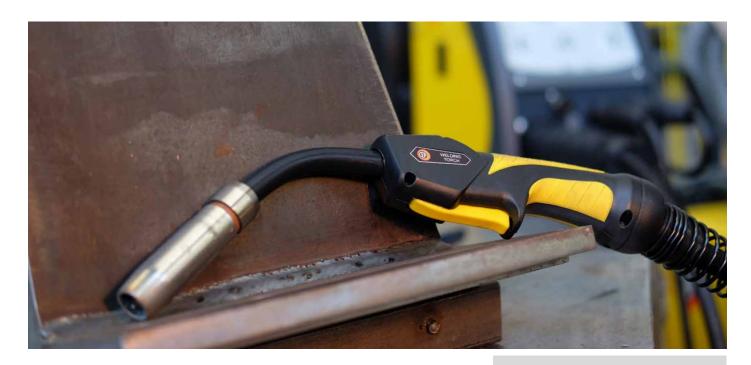


DIGITORCH

CODE			DES	SCRIPTION
	CEA MIG TORCHES CX and CXH series			
020458	CEA Torch CX 251/3	3 m	wire Ø 0,6/1,0	CO2 260A @60% / Mix 200A @60%
020459	CEA Torch CX 251/4	4 m	wire Ø 0,6/1,0	CO2 260A @60% / Mix 200A @60%
020463	CEA Torch CX 351/4	4 m	wire Ø 0,8/1,2	CO2 300A @60% / Mix 220A @60%
020465	CEA Torch CX 351/A	3 m	wire Ø 1,0/1,2	for Aluminium CO2 300A @60% / Mix 220A @60%
020466	CEA Torch CX 353/4	4 m	wire Ø 0,8/1,2	CO2 340A @60% / Mix 290A @60%
020471	CEA Torch CX 451/4	4 m	wire Ø 0,8/1,6	C02 400A @60% / Mix 300A @60%
021002	CEA Torch CX 353/4 Up/Down-6p	4 m	wire Ø 0,8/1,2	CO2 340A @60% / Mix 290A @60%
021006	CEA Torch CX 353/4 Up/Down-17p	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%
020473	CEA Torch CXH 302/A	3 m	wire Ø 0,8/1,2	water cooled for Aluminium CO2 300A @100% / Mix 250A @100%
020479	CEA Torch CXH 402/4	4 m	wire Ø 0,8/1,6	water cooled CO2 500A @100% / Mix 450A @100%
020480	CEA Torch CXH 402/A	3 m	wire Ø 1,0/1,6	water cooled for Aluminium CO2 500A @100% / Mix 450A @100%
020481	CEA Torch CXH 502/4	4 m	wire Ø 1,0/1,6	water cooled CO2 500A @100% / Mix 500A @100%
021001	CEA Torch CXH 302/4 Up/Down-6p	4 m	wire Ø 0,8/1,2	water cooled CO2 300A @100% / Mix 250A @100%
021005	CEA Torch CXH 302/4 Up/Down-17p	4 m	wire Ø 0,8/1,2	water cooled CO2 300A @100% / Mix 250A @100%
021007	CEA Torch CXH 402/4 Up/Down-17p	4 m	wire Ø 0,8/1,6	water cooled CO2 500A @100% / Mix 450A @100%
	DIGITORCH			
021021	CEA Digitorch DX 353/4-17p	4 m	wire Ø 0,8/1,2	CO2 340A @60% / Mix 290A @60%
021016	CEA Digitorch DX 353/4-D	4 m	wire Ø 0,8/1,2	CO2 340A @60% / Mix 290A @60%
021020	CEA Digitorch DXH 302/4-17p	4 m	wire Ø 0,8/1,2	water cooled CO2 300A @100% / Mix 250A @100%
021015	CEA Digitorch DXH 302/4-D	4 m	wire Ø 0,8/1,2	water cooled CO2 300A @100% / Mix 250A @100%
021022	CEA Digitorch DXH 402/4-17p	4 m	wire Ø 0,8/1,6	water cooled CO2 500A @100% / Mix 450A @100%
021017	CEA Digitorch DXH 402/4-D	4 m	wire Ø 0,8/1,6	water cooled CO2 500A @100% / Mix 450A @100%
	CEA MIG TORCHES WITH CONSUMABLE	S SIMILA	R TO BINZEL	
020420	CEA Torch C 15/3	3 m	wire Ø 0,6/1,0	
020421	CEA Torch C 25/3	3 m	wire Ø 0,6/1,0	
020422	CEA Torch C 25/4	4 m	wire Ø 0,6/1,0	
020424	CEA Torch C 36/4	4 m	wire Ø 0,8/1,2	
	ABICOR BINZEL PUSH PULL			
020488	Push Pull Torch PP 401 D			vater cooled (to be ordered w. 031107 or 031113)
031107	Push Pull synchronizer PC Board KIT (to	be order	ed with the Push pu	ll torch)
031113	Push Pull synchronizer PC Board KIT 24	/ 42 V (to	be ordered with the	e Push pull torch)
031123	Push Pull synchronizer PC Board KIT 24	/ 42 V (to	be ordered with the	e Push pull torch)
	TORCH ACCESSORIES			
460369	WPE1 Water Hoses Extension Kit for no	n-standa	rd water cooled CEA	Torch

UP DOWN TORCHES / DIGITORCH / PUSH PULL MATCHING

CODE	DESCRIPTION	TRE0 / TREOSTAR	CONVEX MOBILE	SMART	SMARTCAR	CONVEX	DOGMA	MAXI i	MAXIQ	Q-YARD	QUBOX / QUBOX PULSE	DIGITECH
021002	CEA Torch CX 353/4 Up/Down-6p 4m wire Ø 0,8/1,2 - CO2 340A @60% / Mix 290A @60%		٠									
021006	CEA Torch CX 353/4 Up/Down-17p 4m wire Ø 0,8/1,2 - CO2 340A @60% / Mix 290A @60%						٠		•	•	•	•
021001	CEA Torch CXH 302/4 Up/Down-6p 4m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%		≋									
021005	CEA Torch CXH 302/4 Up/Down-17p 4m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%					≋	≋		≋	≋	≋	≋
021007	CEA Torch CXH 402/4 Up/Down-17p 4m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%					≋	≋		≋	≋	≋	≋
	DIGITORCH											
021021	CEA Digitorch DX 353/4-17p 4m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%								•	•	•	•
021016	CEA Digitorch DX 353/4-D 4m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%						٠					
021020	CEA Digitorch DXH 302/4-17p 4m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%								≈	≋	≈	≋
021015	CEA Digitorch DXH 302/4-D 4m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%						≋					
021022	CEA Digitorch DXH 402/4-17p 4m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%								≋	≋	≈	≋
021017	CEA Digitorch DXH 402/4-D 4m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%						≋					
	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. Push Pull KIT)						≋**		≋	≋	≋	≋
031107	Push Pull Synchronizer PC Board KIT										≋	≋*
031113	Push Pull Synchronizer PC Board KIT 24/42 V								≋	≋	≋	≋
031123	Push Pull Synchronizer PC Board KIT 24/42 V						≋**					



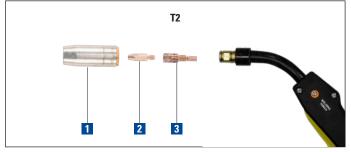
DOWNLOAD THE FULL TORCHES CATALOGUE

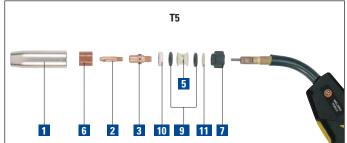


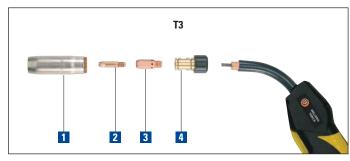


CONSUMABLES FOR MIG/MAG TORCHES









		T1	T2			1	[3				_ T 4		T4		T5	
CODE	DESCRIPTION	C 15	C 25	C 36 - MB 36 KD U/D	C 250 - CX 251	C 350 - CX 351 - CX 353 - DX 353	C 350/A - CX 351/A	D 361	C 450 - CX 451	CH 301 - CXH 302 - DXH 302	CH 401 - CXH 402 - DXH 402	DH 411	CH 501 - CXH 502	SET / Q.TY		
1	GAS NOZZLES															
486120	Gas Nozzle				•			٠						1		
486121	Gas Nozzle					•	٠							1		
486137	Gas Nozzle									•				1		
486122	Gas Nozzle											•		1		
486127	Gas Nozzle													1		
486035	Gas Nozzle													1		
486137	Gas Nozzle													1		
486128	Cone shaped Gas Nozzle							•						1		
486151	Cone shaped Gas Nozzle					•	٠							1		
486138	Cone shaped Gas Nozzle									•				1		
486182	Cone shaped Gas Nozzle	٠												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													1		
486184	Narrow Cone shaped Gas Nozzle	٠												1		
486210	Narrow Cone shaped Gas Nozzle		٠											1		
486030	Narrow Cone shaped Gas Nozzle													1		
486033	Narrow Cone shaped Gas Nozzle													1		

		T1	T2			1	[3				T4		T5	
				-		33								
					1	C 350 - CX 351 - CX 353 - DX 353	1			5	5			
				1		â				30	4			
0005	DECODIDEION			e		353				- CXH 302 - DXH 302	CH 401 - CXH 402 - DXH 402			
CODE	DESCRIPTION			- MB 36 kd U/d		ŭ	1/A			2-1	5		2	SET / Q.TY
				6 KI	21	21-	C 350/A - CX 351/A		2	130	40		CH 501 - CXH 502	
				B 3	- CX 251	Х3	ŝ		C 450 - CX 451	Ś	Ś		Ś	
				2		÷	A/O	_	-	÷	÷	=	÷	
		C 15	C 25	36	C 250	35(35(D 361	45(CH 301-	H 4	DH 411	H 5	
-		S	5	ပ	3	3	3	•	3	<u>с</u>	3	-	3	
2	CONTACT TIPS													
486171	Ø 0,6 mm Contact Tip			-										10
486177	Ø 0,6 mm Contact Tip - Cu-Cr-Zr			1										10
486173	Ø 0,8 mm Contact Tip													10
454808	Ø 0,8 mm Contact Tip			-			1							10
454798	Ø 0,8 mm Contact Tip			-	1									10
486189	Ø 0,8 mm Contact Tip													10
454820	Ø 0,8 mm Contact Tip													10
486179	Ø 0,8 mm Contact Tip - Cu-Cr-Zr	•		-										10
486195	0 0,8 mm Contact Tip - Cu-Cr-Zr		•											10
454810	Ø 0,8 mm Contact Tip - Cu-Cr-Zr				•			•						5
454797	Ø 0,8 mm Contact Tip - Cu-Cr-Zr													5
454824	Ø 0,8 mm Contact Tip - Cu-Cr-Zr													10
454838	Ø 1,0 mm Contact Tip		-											10
486175	Ø 1,0 mm Contact Tip													10
454878	Ø 1,0 mm Contact Tip													10
486191	Ø 1,0 mm Contact Tip			-	1		1							10
454821	Ø 1,0 mm Contact Tip													10
486181	Ø 1,0 mm Contact Tip - Cu-Cr-Zr													10
454876	Ø 1,0 mm Contact Tip - Cu-Cr-Zr	-				•	•		•	•		•	•	5
454844	Ø 1,0 mm Contact Tip - Cu-Cr-Zr				•	-	-	•	-		-	-		5
486197	Ø 1,0 mm Contact Tip - Cu-Cr-Zr		•		•			•						10
			•											
454825	Ø 1,0 mm Contact Tip - Cu-Cr-Zr		-											10
486203	Ø 1,0 mm Contact Tip for Al				-									10
454851	Ø 1,0 mm Contact Tip for Al													10
454958	Ø 1,2 mm Contact Tip													10
454845	Ø 1,2 mm Contact Tip			-										10
486193	Ø 1,2 mm Contact Tip			-										10
454822	Ø 1,2 mm Contact Tip													10
486199	Ø 1,2 mm Contact Tip - Cu-Cr-Zr				1		1							10
454957	Ø 1,2 mm Contact Tip - Cu-Cr-Zr													5
454846	Ø 1,2 mm Contact Tip - Cu-Cr-Zr													5
454826	Ø 1,2 mm Contact Tip - Cu-Cr-Zr													10
486205	Ø 1,2 mm Contact Tip for Al		•	-										10
454852	Ø 1,2 mm Contact Tip for Al		-	•										10
454998	,			-					•					10
	01,6 mm Contact Tip								-			•	•	
454823	Ø 1,6 mm Contact Tip										-			10
454997	Ø 1,6 mm Contact Tip - Cu-Cr-Zr								•					5
454827	Ø 1,6 mm Contact Tip - Cu-Cr-Zr													10
454853	Ø 1,6 mm Contact Tip for Al													10
455168	Ø 2,0 mm Contact Tip			1										10
455167	Ø 2,0 mm Contact Tip - Cu-Cr-Zr													5
3	GAS DIFFUSERS						1							
423220	Gas Diffuser													1
423221	Gas Diffuser					•	•							1
423422	Gas Diffuser					-	-							1
423218	Gas Diffuser								-	•				1
423218	Gas Diffuser									-				1
												•		
455445	Gas Diffuser													1
423217	Gas Diffuser		•	-				-						1
423423	Ceramic Gas Diffuser			•										1
423421	Gas Diffuser													1
423420	Gas Diffuser													1
4	GAZ NOZZLE SUPPORTS													
452220	Gas nozzle support													1
452221	Gas nozzle support													1
452222	Gas nozzle support													1
452224	Gas nozzle support													1
452223	Gas nozzle support									-		•		1
452226	Gas nozzle support			•										1
452225	Gas nozzle support													1
			:	:	:		:	: !				:		•

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				T1	T2			T	3				T4		T5	
CODE	DESCF	IPTION		2	5	C 36 - MB 36 KD U/D	C 250 - CX 251	C 350 - CX 351 - CX 353 - DX 353	C 350/A - CX 351/A	161	C 450 - CX 451	CH 301 - CXH 302 - DXH 302	CH 401 - CXH 402 - DXH 402	DH 411	CH 501 - CXH 502	SET / Q.TY
				 C 15	C 25	ວິ	C 2	с З	с З	D 361	C 4	S	공	E	공	
5	OTHER															
424391	Spacer			 											•	1
6	OTHER			 												
407516	Insulation bush			 											•	1
7	OTHER			 												
430788	Locknut			 											•	1
8	OTHER															
458327	Insulating washer			 			 		 				•			1
400462	Insulating washer											•				1
9	OTHER			 												1
433599	Seal OTHER														•	1
10 458304																1
436304 11	Insulating washer OTHER														•	1
458305	Pressure washer			 											•	1
400000	LINER AND LINER LOCKIN	6 001	IETO												-	1
454704	Liner locking collet					•	•					•	•	•		1
415620	Liner locking collet Ø 4.0			 -		-	-		-		-	•	-	-		1
415621	Liner locking collet Ø 4.7			 												1
432345	Liner	3 m	for wire Ø 0,6/0,8	 •	•	•	 		 							1
432405	Liner	3 m	for wire Ø 1,0/1,2	 -	-	-			•							1
432350	Liner	3 m	for wire Ø 1,0/1,2	 •	•				-							1
432401	Liner	3 m	for wire Ø 1,0/1,2	 -												1
432419	Liner	3 m	for wire Ø 1,0/1,2						•							1
432394	Liner	3 m	for wire Ø 1,0/1,2	 					-				•			1
432430	Carbon teflon / Bronze liner	3 m	for wire Ø 1,0/1,2	 	•											1
432395	Liner	3 m	for wire Ø 1.2/1,6													1
432421	Liner	3 m	for wire Ø 1.2/1,6													1
432425	Liner	3 m	for wire Ø 1.4/1,6													1
432428	Carbon teflon liner	3 m	for wire Ø 1,6 Al													1
432396	Liner	3 m	for wire Ø 2.0/2.4													1
432355	Liner	4 m	for wire Ø 0,6/0,8						1							1
432402	Liner	4 m	for wire Ø 0,6/1,0													1
432360	Liner	4 m	for wire Ø 1,0/1,2													1
432406	Liner	4 m	for wire Ø 1,0/1,2													1
432390	Liner	4 m	for wire Ø 1,0/1,2													1
432431	Carbon teflon / Bronze liner	4 m	for wire Ø 1,0/1,2													1
432407	Liner	4 m	for wire Ø 1.2/1,6													1
432391	Liner	4 m	for wire Ø 1.2/1,6													1
432426	Liner	4 m	for wire Ø 1.4/1,6						 							1
432429	Carbon teflon liner	4 m	for wire Ø 1.6 Al													1
432393	Liner	4 m	for wire Ø 1.6/2.4	 												1
432418	Carbon teflon / Bronze	4 m	for wire Ø 0,8/1,0 Al													1
432416	Carbon teflon / Bronze	4 m	for wire Ø 1.2/1,6 Al													1



WATER COOLERS

MIG ACCESSORIES



IR 14



HR 32, HR 30



HRX 51 HRX 61-LC Reinforced Pump



HRX 52 HRX 62-LC Reinforced Pump



Kit for Retrofit IR 14

CODE	DESCRIPTION	CONVEX MOBILE	CONVEX	MAXI I	Q YARD	DIGITECH 3200 VP2	DIGITECH VP3 4003 / 5003	COMPACT 410	MAXI
032050	Water cooling equipment IR 14 400 V			≋				≋	≋
032055	Water cooling equipment IR 14 230 V							≋	≋
030938	IR Accessories type : "J"								≋
030939	IR Accessories type: "L"							≋	
032090	Water cooling equipment HR 30 400 V	≋	≋	1	≋	≋			
032098	Water cooling equipment HR 32 400 V	≋	≋	1	≋	≋			
032125	Water cooling equipment HRX 51 400 V			1		1	≋		
032130	Water cooling equipment HRX 52 400 V		1		≋	: : :			
032126	Water cooling equipment HRX 61-LC 400 V reinforced pump 4,5 bar, con. over 20 m		: : :	0 1 1	1	 	≋		
032131	Water cooling equipment HRX 62-LC 400 V reinforced pump 4,5 bar, con. over 20 m			1	≋				
031012	Kit for Retrofit IR 14		1	≋	1	1			

INTERCONNECTING CABLES

MIG ACCESSORIES

CODE	DESCRIPTION	MAXII	MAXI Q	QYARD	QUBOX	DIGITECH	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	٠					٠
010940	10 m Air cooled Interconnecting cable Power source-Wire feeder	٠					
020894	20 m / 70 mm ² Air cooled	٠					٠
020845	30 m / 70 mm² 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	≋					≋
010960	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	٠					
010965	5 m Air cooled Interconnecting cable Power source-Wire feeder	٠					
010970	10 m Air cooled Interconnecting cable Power source-Wire feeder	٠					
010975	1,2 m Water cooled Interconnecting cable Power source-Wire feeder	≋					
010980	5 m Water cooled Interconnecting cable Power source-Wire feeder	≋					
010985	10 m Water cooled Interconnecting cable Power source-Wire feeder	≋					
010971	20 m / 70 mm ² Air cooled Interconnecting cable Power source-Wire feeder	٠					
010972	30 m / 70 mm ² Air cooled Interconnecting cable Power source-Wire feeder						
010990	20 m / 70 mm ² Water cooled Interconnecting cable Power source-Wire feeder	≋					
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder					۲	
010864	4 m Air cooled Interconnecting cable Power source-Wire feeder					۲	
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder					۲	
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						
010872	40 m / 70 mm ² Air cooled						
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋	≋	≋	
010841	4 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋	≋	≋	
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋	≋	≋	
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder		≋	≋	≋	≋	
010859	15 m / 70 mm² 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



GROUND CABLES

Adaptor support plate for CONVEX MOBILE mounted on CT401

MIG ACCESSORIES

449478



25 mm² / 3 m Ground cable

CODE



 $35\ mm^2$ / $4\ m$ Ground cable



50 mm² / 4 m Ground cable

O

70 mm² / 4 m Ground cable

DESCRIPTION

239618	25 mm² / 3 m Ground cable with clamp
239601	35 mm² / 4 m Ground cable with clamp
239603	50 mm² / 4 m Ground cable with clamp
239607	70 mm² / 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

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





CL-1100 cooling liquid 5l

Anti spatter Spray





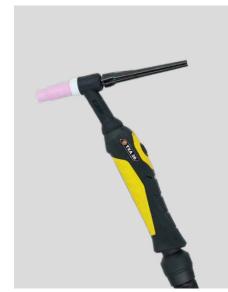
Autotransformer A13-H

Cable winding kit

CODE	DESCRIPTION
031126	Cable winding kit (Maxi I/Maxiq/Qubox)
460369	WPE 1 Water Hoses Extension Kit for non-standard water cooled CEA Torch
031124	Torcha support KIT
439230	UltraLUX infinite shade adjustment from DIN 9/13 by potentiometer
020340	Autotransformer A13-H 220/400 V 50/60 Hz 3 phase
402275A	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



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





0005	DESCRIPTION	49	6 X.I	TX 17	(A 17	TX 26	:	G TORO		H 19	H 18		H 20		
CODE	DESCRIPTION	TXA 9	RTA 9/ RTX 9	RIA 17/RTX 17	TA 17/TXA 17	RTA 26/ RTX 26	TA 26-TXA 26	TG 26	TA 27-TXA 27	TH 19-TXH 19	TH 18-TXH 18	TW 18	TH 20-TXH 20	TW 20	SET / Q.TY
		₽	E	Ę.	TA	Ð	₽1	2	₽	₽	₽	Ę	₹	₽	
1	CERAMIC NOZZLES														
486091	Ceramic nozzle Gr.4 - int. Ø 6,5 mm	٠													1
486068	Ceramic nozzle Gr.4 - int. Ø 6,5 mm					٠	٠	٠	•	٠	•				1
486092	Ceramic nozzle Gr.5 - int. Ø 8 mm	٠	٠											•	1
486069	Ceramic nozzle Gr.5 - int. Ø 8 mm							•	•		•				1
486093	Ceramic nozzle Gr.6 - int. Ø 10 mm	•	٠											•	1
486070	Ceramic nozzle Gr.6 - int. Ø 10 mm			٠	٠	٠	٠	٠	•	٠	•	•			1
486094	Ceramic nozzle Gr.7 - int. Ø 11 mm	•	٠										•		1
486071	Ceramic nozzle Gr.7 - int. Ø 11 mm			•			٠	٠	•	٠	•	•		<u> </u>	1
486072	Ceramic nozzle Gr.8 - int. Ø 12 mm			•	•					•	•	•			1
2	COLLET HOLDERS														1
451985	Collet holder Ø 1,0 mm	•	•												1
426025	Collet holder Ø 1,0 mm	-													1
451986	Collet holder Ø 1,6 mm	•	•			-	-			-				•	1
426021	Collet holder Ø 1,6 mm	-							•	•		•	_		1
451987	Collet holder Ø 2,4 mm	•	•							-				•	1
426022	Collet holder Ø 2,4 mm			•	•	•					-	•			1
426023	Collet holder Ø 3,2 mm					•	•			•		•			1
451988	Collet holder Ø 3,2 mm												•	•	1
426024	Collet holder Ø 4,0 mm									•	•	•			1
3	COLLETS														
450785	Collet Ø 1,0 mm	•	٠										•	•	1
450793	Collet Ø 1,0 mm	-											-		1
450786	Collet Ø 1,6 mm	•	٠												1
450794	Collet Ø 1,6 mm	-					•					•	-		1
450787	Collet Ø 2,4 mm	•	•		-	-	-			-				•	1
450795	Collet Ø 2,4 mm			٠	٠		•	•	•		•	•		<u> </u>	1
450796	Collet Ø 3,2 mm						•	٠	•	•	•	•			1
450788	Collet Ø 3,2 mm													•	
450797	Collet Ø 4,0 mm									•	•	•			1
4	NOZZLES SIDE INSULATION RINGS														1
436141	Insulating ring	•	•										•		1
436148	Insulating ring			•	•	•	•	•	•	•	•	•			1
5	SEALS														1
433480	Seal	•												•	1
433482	Seal			•	•		•	•	•	•	•	•			1
6	CAPS														1
410556	Short cap	•	٠			-	-			-			•	•	1
410570	Short cap			٠			٠	٠	•	•	٠	•			1
410557	Long cap	•	•											•	1
410560				•	٠		•		•	•	•	•			1
400000	GAS LENS CERAMIC NOZZLES														1
486096	GAS LENS Ceramic nozzle Gr. 5 - int.0 8 mm	-											•	•	1
486097	GAS LENS Ceramic nozzle Gr. 6 - int.Ø 10 mm	•	٠			-	-							•	1
486064	GAS LENS Ceramic nozzle Gr. 6 - int.Ø 10 mm	-		•					•			•	-		1
486098	GAS LENS Ceramic nozzle Gr. 7 - int.Ø 11 mm	•	•	-	-	-	-	-	-	-	-	-	•		1
486065	GAS LENS Ceramic nozzle Gr. 7 - int.Ø 11 mm								•		-	•		<u> </u>	1
486066	GAS LENS Ceramic nozzle Gr. 8 - int.Ø 12 mm			•	•		•	•	•	•	•	•			1
4510.05	GAS LENS COLLET HOLDERS		-										6	-	1
451995	GAS LENS Collet holder Ø 1,6 mm	•	٠		-	-	-		-	-	-				1
451998	GAS LENS Collet holder Ø 1,6 mm	-		•			•	٠	•	•	٠	•	6		1
451996	GAS LENS Collet holder Ø 2,4 mm	•	•	-	-	-	-	-	-	-	-	-	•		1
451999	GAS LENS Collet holder Ø 2,4 mm				٠				•		-	•		<u> </u>	1
451994	GAS LENS Collet holder Ø 3,2 mm						•		•	•		•	-		1
451997	GAS LENS Collet holder Ø 3,2 mm									-	-	_	•	•	1
451989	GAS LENS Collet holder Ø 4,0 mm						i	i							1



TROLLEYS FOR TIG EQUIPMENT

TIG ACCESSORIES



GROL	JND	CAE	BLES

CT 75 with 4 rolls for power source, cooling equipment, cylinder

CT 80 with 4 rolls for power source, cooling equipment, cylinder

Adaptor support plate for MATRIX 4200 HF in used with CT 401 and HR 30/32



234928

234932

031166

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 mm² / 4 m Ground cable with clamp

GAS REDUCERS



Reducer with 2 manometers ("MINI" Type)



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

n

Reducer with flowmeter and 1 manometer



TIG ACCESSORIES



HR 22 / HR 23



HRX 20 / HRX 30





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 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			1	1	≈				≈	
032130	Water cooling equipment HRX 52 400 V										≋
414363	Input cable Adapter to connect HR 23 with MATRIX 4200 HF			≈	1						

OTHER ACCESSORIES

TIG ACCESSORIES



PSR7

CODE



Adapter for simultaneous connection of Torch and PSR 7



DFX1 / DFX5 Dust Filter





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					
460005	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					
439230	UltraLUX 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





Roll bar protection kit

DESCRIPTION



Carrying Belt Kit



Rainbow Bag

Remote control

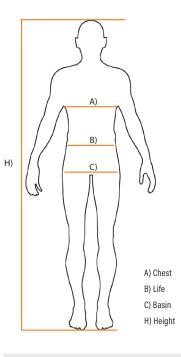
ORDER INFORMATION

CODE

	ACCESSORY KIT							
460281	3+2 m 16 mm ² cables with electrodeholder pincer, ground clamp and 50 mm ²							
460286	4+3 m 25 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens						
460292	4+3 m 35 mm ²	cables with electrodeholder pincer, ground clamp and 50 mm ² safety connections - brush/hammer - shield with lens						
460262	4+3 m 50 mm ²	cables with electrodeholder pincer, ground clamp and 50 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 CONTROL	S						
236243	CD 6/8	8 m manual remote control						
236244	CD 6/25	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	n kit						
201752	Kit of 2 male 50 mm ² safety connections							
031100	CB 2 carrying Belt Kit							
030963	Rainbow Bag							

PROFESSIONAL WELDING APPAREL





DESCRIPTION

CODE

CODE





STANDARDS	UNI EN ISO 11611:2008 (Protective clothing for use in welding and allied processes) UNI EN ISO 11612:2009 (Protective clothing against heat and flame)			
Material type	100% flame retardant cotton			
Rugged fabric	330 g /m2			
Extra protection	highly wear-prone points are double-layered			
Colour	Grey / Yellow			

MEASURES cm







SIZES

CODE	DE DESCRIPTION			SIZ	ZES		MEASURES cm				
	TROUSERS	I	UK	E	F	DE	USA	В	А	Н	
100760	Welder's Trousers	48	16	46	44	48	М	88/92	98/102	172/174	
100761	Welder's Trousers		18	48	46	50	М	92/96	104/106	174/178	
100762	Welder's Trousers	52	20	50	48	52	L	96/100	107/110	176/180	
100763	Welder's Trousers	54	22	52	50	54	L	102/106	112/116	176/182	
100764	Welder's Trousers		24	54	52	56	XL	108/112	118/122	180/184	



CODE	DESCRIPTION			SIZ	ZES			MEASURES cm
	WELDER'S COAT	I	UK	E	F	DE	USA	A H
100820	Welder's Coat	50	18	48	46	50	L	98/102 172/178
100821	Welder's Coat	52	20	50	48	52	L	102/106 174/180
100822	Welder's Coat	54	22	52	50	54	XL	106/110 174/180
100823	Welder's Coat	56	24	54	52	56	XL	110/116 176/182
100824	Welder's Coat	58	26	56	54	58	XXL	116/122 176/184

DESCRIZIONE



	ACCESSORIES
439230	ultraLUX infinite shade adjustment from DIN 9-13 by potentiometer

B			



SYMBOLS LIST

ТІG HF welding тід (wig)
TIG-Lift welding
MMA welding with stick electrode
Ability to store personalized welding parameters up to 99 Jobs
Energy Saving function to operate the power source cooling fan and torch water cooling only when necessary
High Resolution digital display
Step adjustment
TIG pulsation
Alternative and direct current output
Shunt Adjustment
Products not for the European market as do not meet the requirements of the Directive 2009/125/EC (Ecodesign)



CEA Costruzioni Elettromeccaniche Annettoni S.p.A. C.so E. Filiberto, 27 23900 LECCO - ITALY Cas. Post. (P.O. BOX) 205 Tel. +39 0341 22322 Fax +39 0341 422646 export@ceaweld.com www.ceaweld.com

Technical characteristics might change without notice.

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