



Arc welding catalogue

2026

SINCE 1950



WELDING TOGETHER



CEA

arc welding catalogue

2026



[www.ceaweld.com](http://www.ceaweld.com)

PROUD OF  
OUR HISTORY



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.

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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:



made in italy  
SINCE 1950



## MEMBER OF:



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## 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 and Regulations:

2014/35/EU (LVD)  
2014/30/EU (EMC) - (CISPR 11) A Class.  
2011/65/EU (RoHS)  
2019/1784 (Eco-Design)  
2014/53/UE (if applicable)



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	EN 60974-10	Electromagnetic compatibility (EMC).



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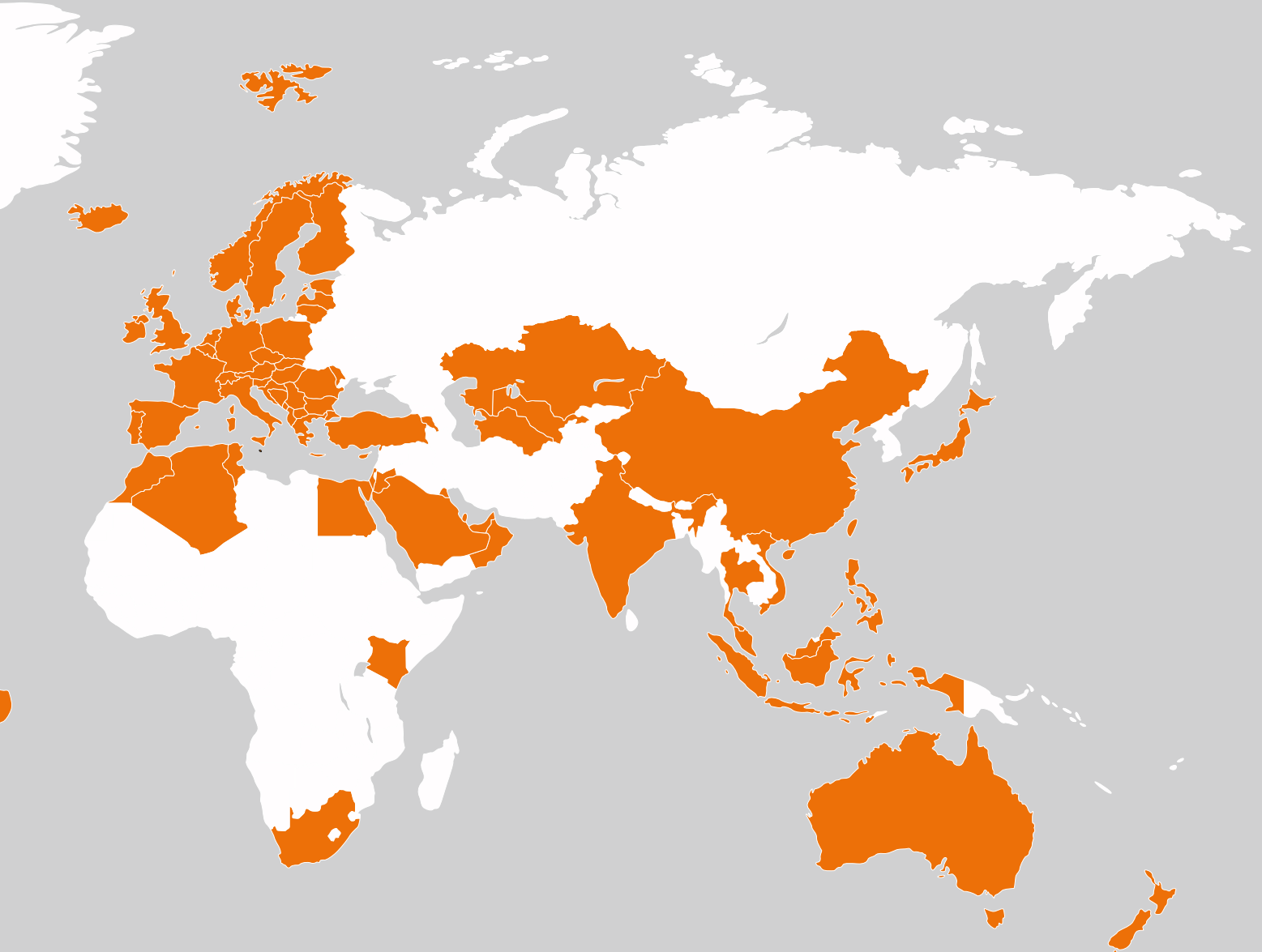
## A Global Presence

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 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 ECODSIGN directive. In particular, the use of the new special welding processes "vision." enables welding to be carried out more quickly with lower heat input than traditional processes, guaranteeing energy savings often not considered.

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

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



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

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



# Innovation and Technology

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





# Bridge 4 Companies

A COMMON SPIRIT



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

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

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



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

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

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

[www.bridge4companies.com](http://www.bridge4companies.com)







# MIG MAG

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# ARC CONTROL SOFTWARE

## VISION.ARC

### vision.ARC

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

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

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

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

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

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

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

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

## VISION.ARC2

### vision.ARC2

**vision.COLD**  
**vision.ULTRASPEED**  
**vision.POWER**  
**vision.PIPE**  
**vision.PULSE-POWER**  
**vision.PULSE-RUN**  
**vision.PULSE-UP**

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

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

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

The main advantages of vision.ARC2 versus the previous version are the following:

- improved arc stability
- optimization of the impulse characteristics
- quick and precise control of the short-circuits, whenever welding with a very short arc
- faster welding speed
- further reduced heat input



#### vision.PULSE

### vision.PULSE

vision.PULSE allows a constantly controlled short arc pulse welding, by optimizing the results of traditional pulse welding.

This enables to reduce the high heat input, typical in pulse welding, with a consequent reduction in distortions, an improvement off the puddle and considerable increase in welding speed too.

#### dual.PULSE

### dual.PULSE

dual.PULSE favours a further reduction in the heat transfer to the workpiece by minimizing its deformation and it produces premium quality aesthetic beads similar to TIG finishing. dual.PULSE is extremely useful when welding Aluminium and stainless steel.

# SPECIAL WELDING PROCESSES

## MIG/MAG WELDING



**vision.COLD**  
for low heat transfer MIG/MAG welding



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



**vision.SPEEDCOLD**  
for low heat transfer with high speed welding



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



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

## PULSED MIG WELDING



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



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



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

## 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.



# vision.COLD

## LOW HEAT TRANSFER MIG/MAG WELDING

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

Thanks to supplied synergic programs, vision.COLD allows very high quality welding of thin sheets and its optimized arc ensures no deformation with minimal modification of the metallurgical characteristics of the joints.

vision.COLD software is also an excellent solution for welding open gap joints.

### ADVANTAGES

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

### APPLICATIONS

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



# vision.ULTRASPEED

## HIGH SPEED MIG/MAG WELDING

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

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

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

### ADVANTAGES

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

### APPLICATIONS

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





# vision.SPEEDCOLD NEW /

## LOW HEAT TRANSFER WITH HIGH SPEED MIG/MAG WELDING

vision.SPEEDCOLD is an innovative MIG/MAG process developed by CEA for welding steel sheet materials which allows a low heat transfer and high speed weld, thanks to the extreme concentration of the arc. This process grants a drastic reduction of overheating and welding time compared to other welding processes with also less shrinkage tension and reduction of workpiece reworking and finishing job.

### ADVANTAGES

- Significant reduction of heat input in welding joints
- Very high welding speed versus traditional short arc MIG/MAG
- Welding of thin thickness carbon and stainless steel in all welding positions.
- Very contained damage to zinc coated layer in Mig Brazing
- Narrower welding beads with less filler material and shielding gas
- Lack of spatters and projections in wire deposition

### APPLICATIONS

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



# vision.POWER

## HIGH PENETRATION MIG/MAG WELDING

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

### ADVANTAGES

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

### APPLICATIONS

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





# 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.PULSE-UP

## VERTICAL UP PULSED WELDING

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

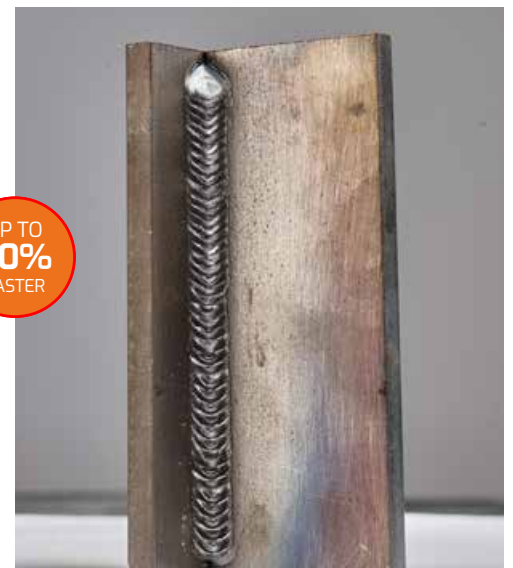
By using vision.PULSE-UP special process, MIG Pulse grants the perfect melting of the material without any spatter or short circuits, whilst MIG process, thanks to its low heat input, allows to properly solidify and smoothly shape deposited material. Final result consists of a narrower, well-dimensioned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

### ADVANTAGES

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

### APPLICATIONS

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





# vision.PULSE-RUN

## HIGH SPEED PULSED WELDING

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

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

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

### ADVANTAGES

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

### APPLICATIONS

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



# vision.PULSE-POWER

## HIGH PENETRATION PULSED WELDING

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

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

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

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

### ADVANTAGES

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

### APPLICATIONS

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





# TREO / TREOSTAR PULSE

## WELDING PERFORMANCE OVER THE EXPECTATION



**TREO**



**TREOSTAR PULSE**

**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)



TREOSTAR PULSE



TECHNICAL DATA		TREO 181			TREOSTAR 2000 PULSE		
		MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA
Single phase input 50/60 Hz	V +10% -10%		230		230		
Input Power @ I <sub>2</sub> 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
Duty cycle at (40°C)	A 100 %	75	75	75	100	100	90
	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]		
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 and cylinder



TREO 181



TREOSTAR PULSE

## ORDER INFORMATION

CODE	DESCRIPTION	TREO 181	TREOSTAR 2000 PULSE
POWER SOURCES WITH TORCH			
003852	Power Source <b>TREO 181</b> 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; complete with: C 15 3m CEA torch, 16 mm <sup>2</sup> / 3 m Ground cable and rolls for wire Ø 0,6/0,8 mm	●	
003876	Power Source <b>TREOSTAR 2000 PULSE</b> 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; complete with: C 25 3m CEA torch, 16 mm <sup>2</sup> /3 m Ground cable and roll for wire Ø 0,6/0,8 mm		●
POWER SOURCES WITHOUT TORCH			
003851	Power Source <b>TREO 181</b> 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; 16 mm <sup>2</sup> / 3 m Ground cable and rolls for wire Ø 0,6/0,8 mm		
003875	Power Source <b>TREOSTAR 2000 PULSE</b> 230V-1 ph for Ø 200 mm wire spool; interchangeable polarity; 16 mm <sup>2</sup> / 3 m Ground cable and rolls for wire Ø 0,6/0,8 mm		
ALUMINIUM KIT			
031145	<b>Aluminium Welding Kit</b> for C 25 3m composed by Carbon-Teflon Liner - 1 roll for wire Ø 0,8-1,0		
MIG MAG WELDING TORCHES			
020458	CEA Torch <b>CX 251/3</b> 3 m wire Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%		
020459	CEA Torch <b>CX 251/4</b> 4 m wire Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%		
020421	CEA Torch <b>C 25/3</b> 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 <b>RTX 17.4</b> 4 m - 140 A 35%		
TROLLEY			
234929	Trolley <b>VT 101</b> for power source and cylinder		
GAS REDUCERS			
020855	Reducer with 2 manometers	●	●
RETROFIT FOR Ø 300 MM WIRE SPOOL			
031162	Retrofit kit adaptor for Ø 300 mm wire spool		
420430	Complete spool cover		
236590	Metallic spool adaptor		
OTHER OPTION[S]			
460281	3+2m 16 mm <sup>2</sup> cables with electrodeholder pincer, ground clamp, 50mm <sup>2</sup> connections brush/hammer, shield with lens		
201752	Kit of 2 male 50 mm <sup>2</sup> 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



SMARTCAR PULSE

**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



SMARTCAR PULSE



TECHNICAL DATA	SMART			SMARTCAR PULSE					
	200 MIG/MAG	300 MIG/MAG	MIG/MAG	205 TIG	MMA	MIG/MAG	305 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 <sub>2</sub> Max	kVA	10,1	13,3	10,1	6,3	9,4	13,3 / 11,9 PULSE	11,6	11,9
Delayed Fuse (I <sub>eff</sub> )	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
Duty cycle at (40°C)	A 100 %	100	180	100	100	90	180	180	180
	A 60 %	115	200	115	115	110	200	200	200
	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 60974-5 - EN 60974-10- [S]							
Protection Class	IP	23 S	23 S	23 S	-	-	-	23 S	-
Dimensions (L x W x H)	mm	960 x 420 x 885			960 x 420 x 885			960 x 420 x 885	
Weight	Kg	38,5	40	38,5	-	-	-	40	-



SMART



SMARTCAR PULSE



Professional double groove feeding mechanism with 4 rolls



## ORDER INFORMATION

CODE	DESCRIPTION	SMART		SMARTCAR PULSE	
		200	300	205	305
POWER SOURCES					
007251	Power Source <b>SMART 200</b> 230V - 1 ph 4 rolls for Ø 300 mm wire spool	●			
007260	Power Source <b>SMART 300</b> 400V - 3 ph 4 rolls for Ø 300 mm wire spool		●		
007253	Power Source <b>SMARTCAR 205 PULSE</b> 230V - 1 ph 4 rolls for Ø 300 mm wire spool			●	
007265	Power Source <b>SMARTCAR 305 PULSE</b> 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 <b>CX 251/3</b> 3 m wire Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%	●	●	●	●
020459	CEA Torch <b>CX 251/4</b> 4 m wire Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%	●	●	●	●
021016	CEA <b>Digitorch DX 353/4-D</b> 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 <b>RTX 26.4</b> 4 m - 180 A 35% (suitable for 50 / 70 mm <sup>2</sup> safety connections)				
GROUND CABLES					
239618	25 mm <sup>2</sup> / 3 m <b>Ground cable</b> with clamp	●		●	
239601	35 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp		●		●
GAS REDUCERS					
020855	Reducer with 2 manometers	●	●	●	●
OTHER OPTION[S]					
236590	Metallic spool adaptor				
031124	TS1 - Torch support KIT				
460286	4+3 m 25 mm <sup>2</sup> cables, electrodeholder pincer, ground clamp 50mm <sup>2</sup> safety connections - brush/hammer - shield with lens				
460292	4+3 m 35 mm <sup>2</sup> cables, electrodeholder pincer, ground clamp 50mm <sup>2</sup> 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				●



# COLDMASTER NEW

## THE MASTER CHOICE TO WELD LIGHT STEEL STRUCTURES

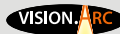


**COLDMASTER** is a new multiprocess synergic power source for welding in MIG/MAG, MMA and TIG with "Lift" mode characterized by an impressive arc stability on low thermal input application.

**COLDMASTER** combines ergonomics and a stunning arc stability in each position. This makes COLDMASTER unbeatable for any steel and stainless-steel weld whenever an extreme control of the cold arc is necessary.

Some of the most common applications for this new welding solution are small thickness, vertical down gap and low thermal input weld.

**COLDMASTER** is perfect for all qualified welding applications, especially in metal sheet working, car body repair sector, agriculture and maintenance.



- High speed welding performance
- Extreme low thermal heat transfer
- Excellent welding quality on gap welding

## COLDMASTER FEATURES

- 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
- Fast access to 16 preset welding programs (JOB-P)
- 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

### SPECIAL WELDING PROCESSES

Standard included



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



**vision.SPEEDCOLD**  
For low heat transfer with high speed welding



TECHNICAL DATA		COLDMASTER		
		MIG/MAG	301 TIG	MMA
Three phase input 50/60 Hz	V +15% -15%		400	
Input Power @ I <sub>2</sub> Max	kVA	13,3	11,6	11,9
Delayed Fuse (I <sub>eff</sub> )	A		16	
Power Factor / cos Φ		0,75/0,99	0,69/0,99	0,75/0,99
Efficiency Degree			0,86	
Open circuit voltage	V	60	60	60
Current range	A	10 - 300	5 - 300	10 - 250
Duty cycle at (40°C)	A 100 %	180	180	180
	A 60 %	200	200	200
	A X %	300 (30%)	300 (30%)	250 (35%)
Wires	Ø mm	0,6 - 1,2	-	-
Coil	Ø mm	300	-	-
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10- [S]		
Protection Class	IP	23 S		
Dimensions (L x W x H)	mm	960 x 420 x 885		
Weight	Kg	40		



CEA COLDMASTER interface



Professional double groove feeding mechanism with 4 rolls



## ORDER INFORMATION

CODE	DESCRIPTION	COLDMASTER 301
POWER SOURCES		
007270	Power Source <b>COLDMASTER 301</b> 400 V - 3 Phase 4 rolls for Ø 300 mm wire spool; (*) (*) <i>vision.COLD, vision.SPEEDCOLD process and ECP integrated as a standard in the COLDMASTER 301</i> <i>Supplied with 4 rolls for wire Ø 0,8/1,0 mm</i>	●
MIG MAG WELDING TORCHES		
020458	CEA Torch <b>CX 251/3</b> 3 m wire Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%	●
020459	CEA Torch <b>CX 251/4</b> 4 m wire Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%	
021016	CEA <b>Digitorch DX 353/4-D</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	
TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE		
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35% (suitable for 50 / 70 mm <sup>2</sup> safety connections)	
GROUND CABLES		
239601	35 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●
GAS REDUCERS		
020855	Reducer with 2 manometers	●
OTHER OPTION[S]		
236590	Metallic spool adaptor	
031124	<b>TS1</b> - Torch support KIT	
460292	4+3 m 35 mm <sup>2</sup> cables, electrodeholder pincer, ground clamp 50mm <sup>2</sup> safety connections - brush/hammer - shield with lens	
	COLDMASTER 301 Suggested air cooled version with torch	●



# YARD MOBILE PULSE

NEW

## A STEP FORWARD IN YARD WELDING



**YARD MOBILE PULSE** represents the ideal solution to weld in the yard industry where portability and operator manoeuvrability are essential to cover the entire work area.

**YARD MOBILE PULSE** are a range of compact, lightweight, and portable multi-process welding power sources, standard equipped with the X VISION interface for the total control of all welding parameters.

**YARD MOBILE PULSE** thanks to Pulse and Dual Pulse, guarantee excellent performance when welding stainless steel, aluminium, and galvanized metal sheet, greatly minimizing any reworking job caused by spatters.

**YARD MOBILE PULSE** are suitable for shipyards, building construction, maintenance, repair and light fabrication work.



TOTAL WEIGHT  
**<25kg**  
SPOOL INCLUDED



- X Vision LCD panel interface
- Ultra-compact, light and powerful
- Perfect for Yard welding
- Multi-process and synergic control

## YARD MOBILE PULSE FEATURES

- Multi-process power sources: MMA - TIG LIFT - MIG/MAG Synergic & Manual - PULSED MIG - DUAL PULSE
- X Vision control display with "TWO CLICK KNOB" encoders
- Digital control with synergic curves preset according to used type of material, gas and wire
- Built-in polarity changeover feature for most common gas and gasless wires
- Suitable for Ø 200 mm wire spools
- Professional single 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 and Digtorch with display
- Ability to partially or totally lock the equipment with access key by Password
- LED LIGHT in the feeder compartment

### SPECIAL WELDING PROCESS Standard included



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



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



TECHNICAL DATA		YARD MOBILE 206 PULSE XV			YARD MOBILE 306 PULSE XV		
		MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA
Single phase input 50/60 Hz	V +15% -15%		230			-	
Three phase input 50/60 Hz	V +15% -15%		-			400	
Input Power @ I <sub>2</sub> Max	kVA	6	4,6	7,1	13,3/11,9 PULSE	11,6	11,9
Delayed Fuse (I <sub>eff</sub> )	A		16			16	
Power Factor / cos φ		0,98/0,99	0,98/0,99	0,98/0,99	0,75/0,99 0,73/0,99 PULSE	0,69/0,99	0,75/0,99
Efficiency Degree			0,84			0,86	
Open circuit voltage	V	45	45	45	60	60	60
Current range	A	10 - 200	5 - 200	10 - 200	10 - 300 10 - 270 PULSE	5 - 300	10 - 250
Duty cycle at (40°C)	A 100 %	105	105	105	180	180	180
	A 60 %	140	140	140	200	200	200
	A X %	200 (25%)	200 (25%)	200 (25%)	300 (30%) 270 (30%) PULSE	300 (30%)	250 (35%)
Wires	∅ mm	0,6 - 1,2	-	-	0,6 - 1,2	-	-
Coil	∅ mm	200	-	-	200	-	-
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		625 x 305 x 360			625 x 305 x 360	
Weight	Kg		19			19,5	



Professional double groove feeding mechanism with 4 rolls



Ultra compact design for 200mm spools



X VISION control display

## ORDER INFORMATION

CODE	DESCRIPTION	YARD MOBILE	
		206 PULSE XV	306 PULSE XV
<b>POWER SOURCES</b>			
005008	Power Source <b>YARD MOBILE 206 PULSE XV</b> 230V - 1 Phase for ∅ 200 mm wire spool, 4 rolls ∅ 0,8 - 1,0	●	
004788	Power Source <b>YARD MOBILE 306 PULSE XV</b> 400V - 3 Phase for ∅ 200 mm wire spool, 4 rolls ∅ 0,8 - 1,0 vision.COLD, vision.ULTRASPEED process and ECP integrated as a standard		●
<b>ALUMINIUM WIRE ROLL KIT</b>			
030866	<b>Aluminium Kit</b> of Single grooved TWIN rolls (∅ 1,0) and gears kit for Al wires		
030867	<b>Aluminium Kit</b> of Single grooved TWIN rolls (∅ 1,2) and gears kit for Al wires		
<b>FLUX CORED WIRE ROLL KIT</b>			
030826	<b>Flux Cored Kit</b> of Single grooved TWIN rolls (∅ 1,0) and gears kit for flux cored wires		
030827	<b>Flux Cored Kit</b> of Single grooved TWIN rolls (∅ 1,2) and gears kit for flux cored wires		
<b>MIG MAG WELDING TORCHES</b>			
020458	CEA Torch <b>CX 251/3</b> 3 m wire ∅ 0,6/1,2 CO2 260A @60% / Mix 200A @60%	●	●
021016	CEA <b>Digitorch DX 353/4-D</b> 4 m wire ∅ 0,8/1,2 CO2 340A @60% / Mix 290A @60%		
<b>TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE</b>			
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35% (suitable for 50 / 70 mm <sup>2</sup> safety connections )		
<b>TROLLEY</b>			
234929	Trolley <b>VT 101</b> for power source, cooling equipment and cylinder	●	●
031177	<b>Adaptor support plate</b> for MOBILE with trolley VT 101	●	●
234931	Trolley <b>CT 401</b> for power source and cylinder		
449466	<b>Adaptor support plate</b> for MOBILE with trolley CT 401		
031007	<b>WK 2</b> extra-large wheels kit		
<b>GROUND CABLES</b>			
239601	35 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	●
<b>GAS REDUCERS</b>			
020855	Reducer with 2 manometers	●	●
020916	Reducer with flowmeter and 1 manometer		
<b>RETROFIT FOR ∅ 300mm WIRE SPOOL</b>			
031176	Retrofit kit adaptor for ∅ 300 mm wire spool		
420430	Complete spool cover		
236590	Metallic spool adaptor		
<b>OTHER OPTION[S]</b>			
460292	4+3 m 35 mm <sup>2</sup> cables, electrodeholder pincer, ground clamp 50mm <sup>2</sup> safety connections - brush/hammer - shield with lens		
201752	Kit of 2 male 50 mm <sup>2</sup> safety connections		
	<b>YARD MOBILE 206 PULSE XV</b> Suggested air cooled version with torch	●	
	<b>YARD MOBILE 306 PULSE XV</b> Suggested air cooled version with torch		●



# MOBILE / MOBILE PULSE

NEW

## THE CUTTING EDGE OF MULTIPROCESS PORTABLE ALL-ROUNDER



**MOBILE**



**MOBILE PULSE**

Powerful welding equipment in the size of just one wire feeder unit: this is the main peculiarity of **MOBILE / MOBILE PULSE** series.

These are innovative multi-process synergic power sources for welding in MIG/MAG, MMA and TIG with "Lift" mode. **MOBILE PULSE**, because of their Pulse and Dual Pulse processes, grant high quality performance on all materials, particularly on stainless steel, zinc coated and aluminium. This greatly minimizes any reworking caused by spatters.

Versatile, easy-to-carry and user friendly, **MOBILE PULSE** equipment are standard equipped with the X VISION interface for the total control of all welding parameters.

**MOBILE / MOBILE PULSE** equipment thanks to their high technological conception and high welding performance are ideal for on-site work, maintenance job, car body repair and light fabrication work.



VISION.ARC

vision.PULSE

dual.PULSE

- X Vision LCD panel interface (MOBILE PULSE)
- Ultra-compact, light and powerful
- Excellent welding performance
- Multi-process and synergic control

## MOBILE PULSE FEATURES

- Multi-process power sources: MMA - TIG LIFT - MIG/MAG (MOBILE) - Pulse MIG - DUAL Pulse MIG (MOBILE PULSE)
- Digital control with synergic curves preset according to used type of material, gas and wire
- X Vision LCD control display with "TWO CLICK KNOB" encoders (MOBILE PULSE)
- 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
- Lodging for wire spool up to Ø 300 mm
- Professional single 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 and Digitorch with display
- Ability to partially or totally lock the equipment with access key by Password
- LED LIGHT in the feeder compartment

### SPECIAL WELDING PROCESSES

Standard included in  
MOBILE 206 / 306 PULSE XV  
MOBILE 301



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



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



TECHNICAL DATA	MOBILE 201 / MOBILE 206 PULSE XV			MOBILE 301 / MOBILE 306 PULSE XV			
	MIG/MAG	TIG	MMA	MIG/MAG	TIG	MMA	
Single phase input 50/60 Hz	V +15% -15%	230	-	-	-	-	
Three phase input 50/60 Hz	V +15% -15%	-	400	-	-	-	
Input Power @ I <sub>2</sub> Max	kVA	6	4,6	7,1	13,3/11,9 PULSE	11,6	
Delayed Fuse (I <sub>eff</sub> )	A	16	16	16	16	16	
Power Factor / cos φ		0,98/0,99	0,98/0,99	0,98/0,99	0,75/0,99 0,73/0,99 PULSE	0,69/0,99	
Efficiency Degree		0,84	0,84	0,84	0,86	0,86	
Open circuit voltage	V	45	45	45	60	60	
Current range	A	10 - 200	5 - 200	10 - 200	10 - 300 10 - 270 PULSE	5 - 300	
Duty cycle at (40°C)	A 100 %	105	105	105	180	180	
	A 60 %	140	140	140	200	200	
	A X %	200 (25%)	200 (25%)	200 (25%)	300 (30%) 270 (30%) PULSE	300 (30%)	
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	640 x 325 x 400				640 x 325 x 400	
Weight	Kg	19,5				20	



Professional double groove feeding mechanism with 4 rolls



CT 401 trolley for power source and gas cylinder.  
Watercooling equipment only for MOBILE 3Ph



MOBILE 201 / 301 interface



X VISION control display  
(MOBILE PULSE)

#### ORDER INFORMATION

CODE	DESCRIPTION	MOBILE 201	MOBILE 206 PULSE XV	MOBILE 301	MOBILE 306 PULSE XV
		AIR	AIR	AIR WATER	AIR WATER
POWER SOURCES					
005001	Power Source <b>MOBILE 201</b> 230V - 1 Phase for Ø 300 mm wire spool, 4 rolls Ø 0,8 - 1,0	●			
005006	Power Source <b>MOBILE 206 PULSE XV</b> 230V - 1 Phase for Ø 300 mm wire spool, 4 rolls Ø 0,8 - 1,0(*)		●		
004786	Power Source <b>MOBILE 301</b> 400V - 3 Phase for Ø 300 mm wire spool, 4 rolls Ø 0,8 - 1,0(*)			●	≈
004781	Power Source <b>MOBILE 306 PULSE XV</b> 400V - 3 Phase for Ø 300 mm wire spool, 4 rolls Ø 0,8 - 1,0(*) (* vision.COLD, vision.ULTRASPEED process and ECP integrated as a standard)				● ≈
ALUMINIUM WIRE ROLL KIT					
030866	<b>Aluminium Kit</b> of Single grooved TWIN rolls (Ø 1,0) and gears kit for Al wires				
030867	<b>Aluminium Kit</b> of Single grooved TWIN rolls (Ø 1,2) and gears kit for Al wires				
FLUX CORED WIRE ROLL KIT					
030826	<b>Flux Cored Kit</b> of Single grooved TWIN rolls (Ø 1,0) and gears kit for flux cored wires				
030827	<b>Flux Cored Kit</b> of Single grooved TWIN rolls (Ø 1,2) and gears kit for flux cored wires				
030828	<b>Flux Cored Kit</b> of Single grooved TWIN rolls (Ø 1,6) and gears kit for flux cored wires				
MIG MAG WELDING TORCHES					
020458	CEA Torch <b>CX 251/3</b> 3 m wire Ø 0,6/1,2 C02 260A @60% / Mix 200A @60%	●	●	●	●
020472	CEA Torch <b>CXH 302/4</b> 4 m wire Ø 0,8/1,2 water cooled C02 300A @100% / Mix 250A @100%			≈	≈
021016	CEA <b>Digitorch DX 353/4-D</b> 4 m wire Ø 0,8/1,2 C02 340A @60% / Mix 290A @60%				
021015	CEA <b>Digitorch DXH 302/4-D</b> 4 m wire Ø 0,8/1,2 water cooled C02 300A @100% / Mix 250A @ 100%				
TIG TORCH WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE					
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35% (suitable for 50 / 70 mm <sup>2</sup> safety connections)				
WATER COOLING					
032130	Water cooling equipment <b>HRX 52</b> 400 V			≈	≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank			≈	≈
TROLLEY					
234929	Trolley <b>VT 101</b> for power source, cooling equipment and cylinder	●	●	●	●
031177	<b>Adaptor support plate</b> for MOBILE with trolley VT 101	●	●	●	●
234931	Trolley <b>CT 401</b> for power source and cylinder			≈	≈
449466	<b>Adaptor support plate</b> for MOBILE with trolley CT 401			≈	≈
031168	<b>Adaptor support plate</b> HRX 52 for CT 401			≈	≈
344013	Accessory <b>BOX</b> kit for MOBILE ( To be ordered only with HRX 52 )			≈	≈
031007	<b>WK 2</b> extra-large wheels kit				
GROUND CABLES					
239601	35 mm <sup>2</sup> / 4 m <b>Ground cable</b> 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 <sup>2</sup> cables, electrodeholder pincer, ground clamp 50mm <sup>2</sup> safety connections - brush/hammer - shield with lens				
236590	<b>Metallic spool adaptor</b>				
201752	Kit of 2 male 50 mm <sup>2</sup> safety connections				
	<b>MOBILE 201</b> Suggested air cooled version with torch	●			
	<b>MOBILE 206 PULSE XV</b> Suggested air cooled version with torch		●		
	<b>MOBILE 301</b> Suggested air cooled version with torch			●	
	<b>MOBILE 301</b> Suggested water cooled version with torch			≈	
	<b>MOBILE 306 PULSE XV</b> Suggested air cooled version with torch				●
	<b>MOBILE 306 PULSE XV</b> Suggested water cooled version with torch				≈



# CONVEX / CONVEX PULSE NEW

GREAT WELDING EQUIPMENT FOR PROFESSIONAL WELDERS



**CONVEX**



**CONVEX PULSE**

**CONVEX** and **CONVEX PULSE** are multiprocess compact power sources for welding in MIG/MAG, 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.



vision.PULSE

dual.PULSE

- 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
- High position of the torch connector with inclined exit to optimize the welding wire's flow
- 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
- Inspection windows in the spool cover



### BURN-BACK CONTROL

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



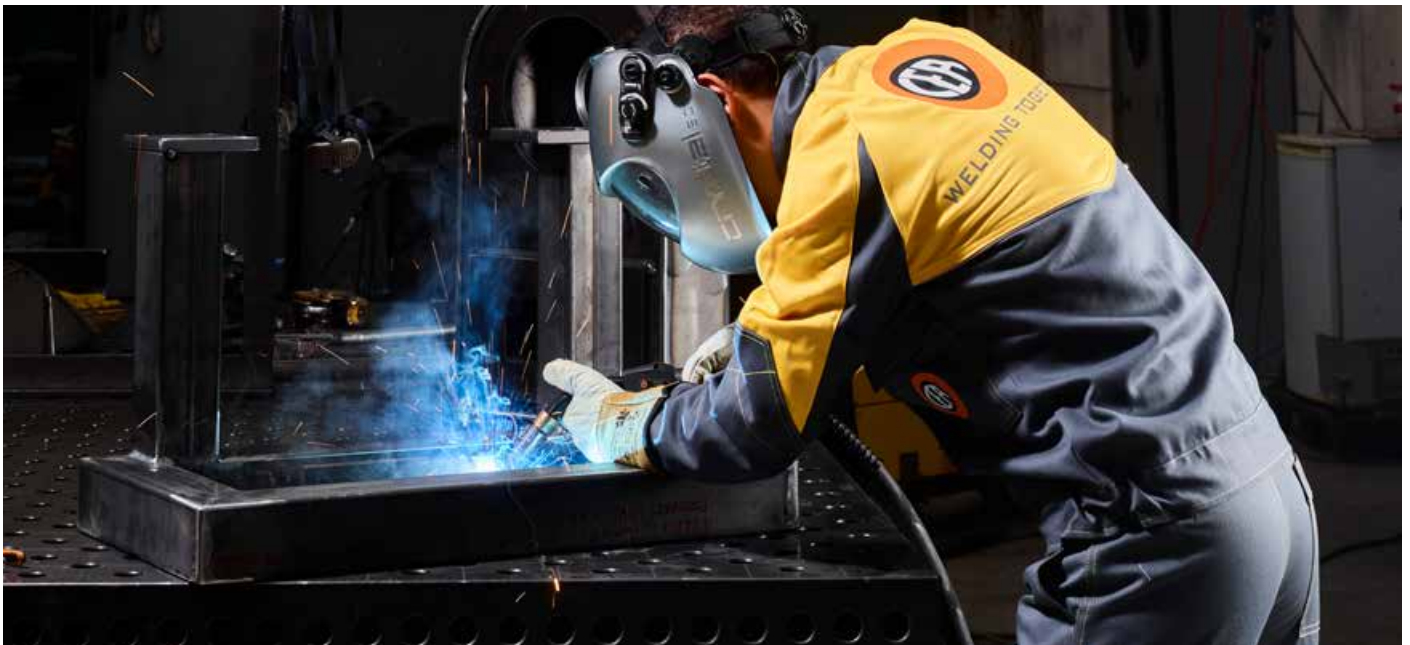
### WSC - WIRE START CONTROL

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

### DUAL-PULSED (CONVEX PULSE)

Dual Pulse favours a further reduction in the heat transfer to the workpiece by minimizing its deformation and produces premium quality aesthetic beads similar to TIG finishing. Dual Pulse is extremely useful mostly when welding Aluminium and stainless steel.





## CONVEX PULSE AVAILABLE IN TWO 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  
MIG/MAG welding



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



ECP  
Extra Curve Package

TECHNICAL DATA		CONVEX		CONVEX PULSE	
		351		355	
Three Phase input 50/60 Hz	V +10% -10%	400	400	400	400
Input Power @ I <sub>2</sub> Max	kVA	19,7	19,7	19,7	19,7
Delayed Fuse (I eff)	A	20	20	20	20
Power Factor / cos φ		0,64/0,99	0,64/0,99	0,64/0,99	0,64/0,99
Efficiency Degree		0,88	0,88	0,88	0,88
Open circuit voltage	V	63	63	63	63
Current range	A	10 - 350	10 - 350	10 - 350	10 - 350
Duty cycle at (40°C)	A 100 %	250	250	250	250
	A 60 %	280	280	280	280
	A 30 %	350	350	350	350
Wires	∅ mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6
Coil	∅ mm	300	300	300	300
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10 			
Protection Class	IP	23 S	23 S	23 S	23 S
Dimensions (L x W x H)	mm	725 x 310 x 525	725 x 310 x 525	725 x 310 x 525	725 x 310 x 525
Weight	Kg	43	43	43	43

ORDER INFORMATION

CODE	DESCRIPTION	CONVEX 351		CONVEX 355 PULSE	
		AIR	WATER	AIR	WATER
POWER SOURCES					
004641	Power Source <b>CONVEX 351</b> 400V (4 rolls for wire Ø 1,0 / 1,2 mm)	●	≈		
004826	Power Source <b>CONVEX 355 PULSE</b> 400V (4 rolls for wire Ø 1,0 / 1,2 mm)			●	≈
<i>STANDARD MODELS include Programs for Fe - CrNi - Al and TIG / MMA functions</i>					
PREMIUM VERSION - POWER SOURCES					
004826PR	Power source <b>CONVEX 355 PULSE PREMIUM</b> 400V (4 rolls for wire Ø 1,0 / 1,2 mm)				
<i>PREMIUM MODELS include already install vision.COLD - vision.ULTRASPEED and ECP</i>					
ALUMINIUM WIRE ROLL KIT					
030895	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 0,8 / 1,0) and gears kit for Al wires				
030897	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,0 / 1,2) and gears kit for Al wires				
030899	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,2 / 1,6) and gears kit for Al wires				
FLUX CORED WIRE ROLL KIT					
030829	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,0 / 1,2) and gears kit for flux cored wires				
030821	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,2 / 1,6) and gears kit for flux cored wires				
MIG MAG WELDING TORCHES					
020466	CEA Torch <b>CX 353/4</b> 4 m wire Ø 0,8/1,2 C02 340A@60%/Mix 290A @60%	●	/	●	/
021006	CEA Torch <b>CX 353/4</b> Up/Down-17p 4 m wire Ø 0,8/1,2 C02 340A @60%/Mix 290A @60%		/		/
020472	CEA Torch <b>CXH 302/4</b> 4 m wire Ø 0,8/1,2 water cooled C02 300A@100%/Mix 250A @100%	/	≈	/	≈
020479	CEA Torch <b>CXH 402/4</b> 4 m wire Ø 0,8/1,6 water cooled C02 500A@100%/Mix 450A @100%	/	/	/	/
021005	CEA Torch <b>CXH 302/4 Up/Down-17p</b> 4 m wire Ø 0,8/1,2 water cooled C02 300A @100%/Mix 250A @100%	/	/	/	/
TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE					
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35%				
WATER COOLING					
032130	Water cooling equipment <b>HRX 52</b> 400 V	/	≈	/	≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank	/	≈	/	≈
TROLLEY					
031008	<b>WK 3</b> extra-large wheels kit for power sources (without gas bottle)				
234907	Trolley <b>CT 46</b> for power source, cylinder	●	≈	●	≈
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)				
234932	Trolley <b>PRIME CT 80</b> for power source, cylinder ( and autotransformer )				
344015	<b>BK 1</b> Accessory BOX kit		/		/
GROUND CABLE					
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈	●	≈
GAS REDUCERS					
020855	Reducer with 2 manometers	●	≈	●	≈
020916	Reducer with flowmeter and 1 manometer				
OTHER OPTION[S]					
031132	TS2 - Torch support KIT				
353486	<b>DFX5</b> - Dust Filter for DIGITECH and MATRIX X 400 / X 500				
236590	Metallic spool adaptor				
020340	Autotransformer <b>A 13-H</b> 220V/400V-50/60Hz - 3 Phase (to be ordered with CT 70)				
460262	4+3 m 50 mm <sup>2</sup> cables with electrodeholder pincer, ground clamp and 50 mm <sup>2</sup> safety connections brush/hammer - shield with lens				
CONVEX 351	Suggested air cooled version with torch	●			
CONVEX 351	Suggested water cooled version with torch		≈		
CONVEX 355 PULSE	Suggested air cooled version with torch			●	
CONVEX 355 PULSE	Suggested water cooled version with torch				≈



Convex / Convex Pulse with CT46 trolley and BK1 accessory box kit



# 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.



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



**PATENT:**  
102023000015741



## 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)



**EASY-TO-LOAD  
WIRE COIL**



**INCLINED TORCH  
CONNECTION**



**GREAT FRONTAL  
VISIBILITY**



**REDUCED FLOOR  
OCCUPATION**



## DOGMA FEATURES

- Multi-process power sources: MMA - TIG LIFT - MIG/MAG Synergic & Manual and for DOGMA PULSE: PULSED MIG and DUAL PULSE
- Digital control of the welding parameters with preset synergic curves
- Feeding mechanism with 4 rolls of large diameter for a precise and constant wire driving
- Double groove rolls replaceable without any tool
- "Energy saving" function to operate the power source cooling fan and torch water cooling only when necessary
- Excellent arc striking always precise and efficient
- Ability to partially or totally lock the equipment with access key by password
- Built-in polarity changeover feature for most common gas and gasless wires (DOGMA 272 /276)





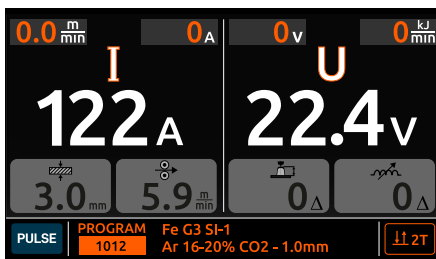
## X VISION CONTROL DISPLAY

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

MATERIAL	Fe G3 SI-1
DIAMETER	1.2 mm
GAS	Ar 16-20% CO2
PROCESS	MIG PULSE
PROGRAM	013
PULSE PROGRAM Fe G3 SI-1 Ar 16-20% CO2 - 1.2mm	
PROGRAM 1013	

### ADVANCE JOB MANAGEMENT

COPY JOB			
J01	SYNERGIC 1	0.5 s	122A
J01	DOUBLE PULSE	0.3 s	155A
DOUBLE PULSE	PROGRAM Fe G3 SI-1 Ar 16-20% CO2 - 0.8mm		PROGRAM 2011
J07	MANUAL	0.0 s	12.0 m/min

## DOGMA PACKAGE

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

### DOGMA PULSE XV

Standard fitted with:  
SYNERGIC PROGRAMS Fe - CrNi - AlMg - AlSi

### DOGMA XV / DOGMA PULSE XV PREMIUM

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




vision.COLD  
for low heat transfer  
MIG/MAG welding

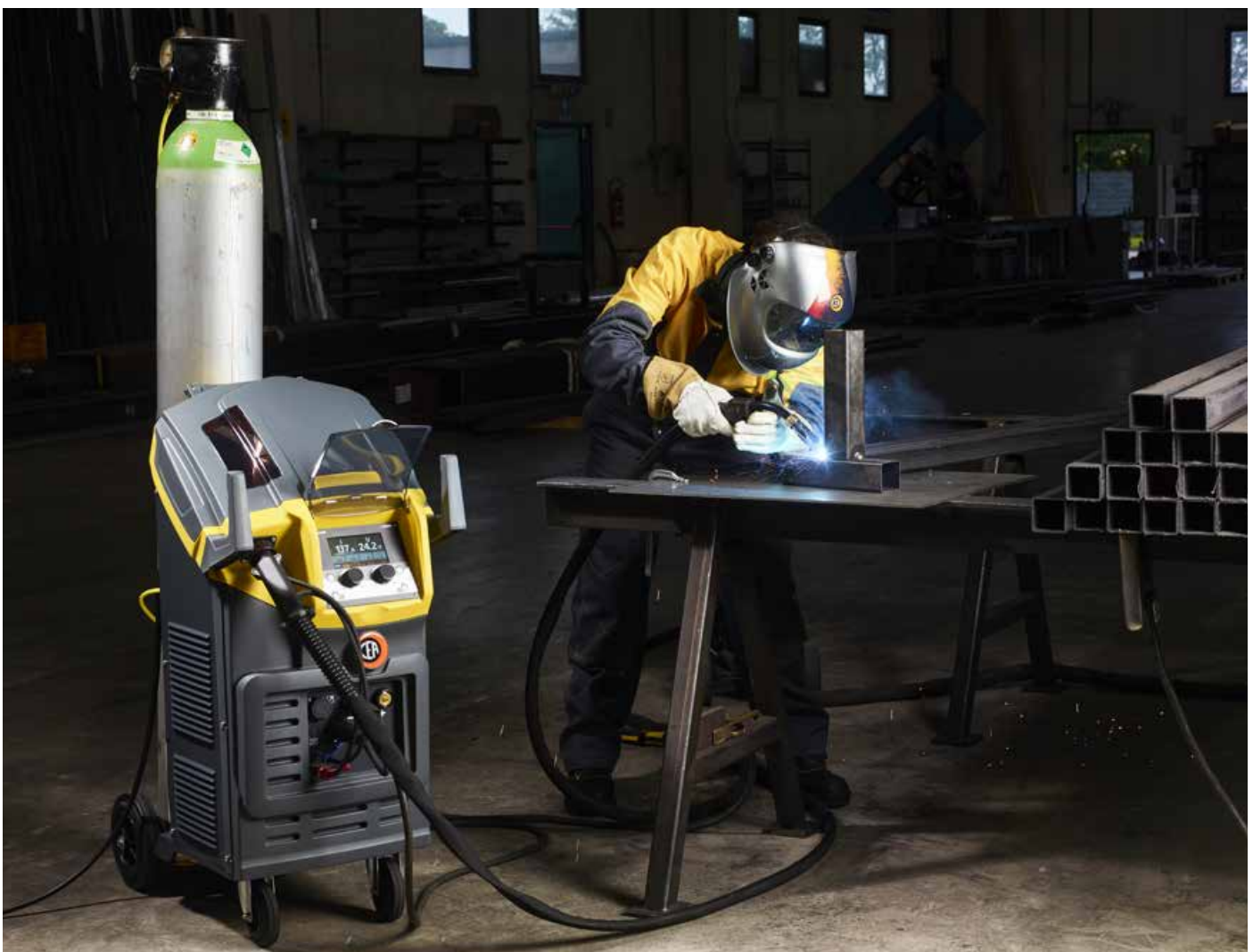


vision.ULTRASPEED  
to weld small and medium  
thickness at a far higher speed



ECP  
Extra Curve Package

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 @ I <sub>2</sub> Max	kVA	12,8	16,1	22,5	12,8	16,1	22,5
Delayed Fuse (I <sub>eff</sub> )	A	16	20	25	16	20	25
Power Factor / cos φ		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
Duty cycle at (40°C)	A 100 %	180	240	300	180	240	300
	A 60 %	200	270	340	200	270	340
	A X %	270 (30%)	320 (35%)	400 (35%)	270 (30%)	320 (35%)	400 (35%)
Wire	Ø mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10 • 					
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

CODE	DESCRIPTION	DOGMA XV					
		272 AIR	272 W WATER	322 AIR	322 W WATER	402 AIR	402 W WATER
POWER SOURCES							
004621	Power Source <b>DOGMA 272 XV</b> 400V (4 rolls for wire Ø 0,8/1,0 mm)	●					
004622	Power Source <b>DOGMA 322 XV</b> 400V (4 rolls for wire Ø 0,8/1,0 mm)			●			
004623	Power Source <b>DOGMA 402 XV</b> 400V (4 rolls for wire Ø 1,0/1,2 mm)					●	
004626	Power Source <b>DOGMA 272 W XV</b> water cooled 400V (4 rolls for wire Ø 0,8/1,0 mm)		≈				
004627	Power Source <b>DOGMA 322 W XV</b> water cooled 400V (4 rolls for wire Ø 0,8/1,0 mm)				≈		
004628	Power Source <b>DOGMA 402 W XV</b> water cooled 400V (4 rolls for wire Ø 1,0/1,2 mm)						≈
<b>PREMIUM</b> (vision.COLD, vision.ULTRASPEED and ECP) integrated as a standard in all DOGMA 272/322/402							
ALUMINIUM KIT							
030866	<b>Aluminium Kit</b> of Single grooved TWIN rolls (Ø: 1,0)						
030867	<b>Aluminium Kit</b> of Single grooved TWIN rolls (Ø: 1,2)						
MIG MAG WELDING TORCHES							
020458	CEA Torch <b>CX 251/3</b> 3m - wire: Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%	●					
020466	CEA Torch <b>CX 353/4</b> 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%			●		●	
021006	CEA Torch <b>CX 353/4 Up/Down-17p</b> 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%						
020472	CEA Torch <b>CXH 302/4</b> 4m - wire: Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%		≈		≈		
020479	CEA Torch <b>CXH 402/4</b> 4m - wire: Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%						≈
021005	CEA Torch <b>CXH 302/4 Up/Down-17p</b> 4m - wire: Ø 0,8/1,2 CO2 300A @100% / Mix 250A @ 100%						
021007	CEA Torch <b>CXH 402/4 Up/Down-17p</b> 4m - wire: Ø 0,8/1,6 CO2 500A @100% / Mix 450A @ 100%						
021016	CEA <b>Digitorch DX 353/4-D</b> 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%						
021015	CEA <b>Digitorch DXH 302/4-D</b> 4m - wire: Ø 0,8/1,2 CO2 300A @100% / Mix 250A @ 100%						
021017	CEA <b>Digitorch DXH 402/4-D</b> 4m - wire: Ø 0,8/1,6 CO2 500A @100% / Mix 450A @ 100%						
020488	Push Pull Torch <b>PP 401 D</b> 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)						
<i>For other torches see mig/mag accessories page</i>							
TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE							
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35%						
GROUND CABLES							
239601	<b>35 mm<sup>2</sup> / 4 m Ground cable</b> with clamp	●	≈				
239603	<b>50 mm<sup>2</sup> / 4 m Ground cable</b> 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 <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈		≈
	DOGMA 272 XV Suggested air cooled version with torch	●					
	DOGMA 272 W XV Suggested water cooled version with torch		≈				
	DOGMA 322 XV Suggested air cooled version with torch			●			
	DOGMA 322 W XV Suggested water cooled version with torch				≈		
	DOGMA 402 XV Suggested air cooled version with torch					●	
	DOGMA 402 W XV Suggested water cooled version with torch						≈

ORDER INFORMATION

CODE	DESCRIPTION	DOGMA PULSE XV					
		276 AIR	276 W WATER	326 AIR	326 W WATER	406 AIR	406 W WATER
<b>POWER SOURCES</b>							
004855	Power Source <b>DOGMA 276 PULSE XV</b> 400V (4 rolls for wire Ø 0,8/1,0 mm)	●					
004860	Power Source <b>DOGMA 326 PULSE XV</b> 400V (4 rolls for wire Ø 0,8/1,0 mm)			●			
004865	Power Source <b>DOGMA 406 PULSE XV</b> 400V (4 rolls for wire Ø 1,0/1,2 mm)					●	
004870	Power Source <b>DOGMA 276 W PULSE XV</b> water cooled 400V (4 rolls for wire Ø 0,8/1,0 mm)		≈				
004875	Power Source <b>DOGMA 326 W PULSE XV</b> water cooled 400V (4 rolls for wire Ø 0,8/1,0 mm)				≈		
004880	Power Source <b>DOGMA 406 W PULSE XV</b> water cooled 400V (4 rolls for wire Ø 1,0/1,2 mm)						≈
<b>STANDARD MODELS</b> include Programs for Fe - CrNi - Al and TIG / MMA functions							
<b>PREMIUM VERSION - POWER SOURCES</b>							
004855PR	Power Source <b>DOGMA 276 PULSE XV</b> <b>PREMIUM</b> 400V (4 rolls for wire Ø 0,8/1,0 mm)						
004860PR	Power Source <b>DOGMA 326 PULSE XV</b> <b>PREMIUM</b> 400V (4 rolls for wire Ø 0,8/1,0 mm)						
004865PR	Power Source <b>DOGMA 406 PULSE XV</b> <b>PREMIUM</b> 400V (4 rolls for wire Ø 1,0/1,2 mm)						
004870PR	Power Source <b>DOGMA 276 W PULSE XV</b> <b>PREMIUM</b> water cooled 400V (4 rolls for wire Ø 0,8/1,0 mm)						
004875PR	Power Source <b>DOGMA 326 W PULSE XV</b> <b>PREMIUM</b> water cooled 400V (4 rolls for wire Ø 0,8/1,0 mm)						
004880PR	Power Source <b>DOGMA 406 W PULSE XV</b> <b>PREMIUM</b> water cooled 400V (4 rolls for wire Ø 1,0/1,2 mm)						
<b>PREMIUM MODELS</b> included already install - vision.COLD, vision.ULTRASPEED process and ECP							
<b>ALUMINIUM KIT</b>							
030866	<b>Aluminium Kit</b> of Single grooved TWIN rolls (Ø: 1,0)						
030867	<b>Aluminium Kit</b> of Single grooved TWIN rolls (Ø: 1,2)						
<b>MIG MAG WELDING TORCHES</b>							
020458	CEA Torch <b>CX 251/3</b> 3m - wire: Ø 0,6/1,0 CO2 260A @60% / Mix 200A @60%	●					
020466	CEA Torch <b>CX 353/4</b> 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%			●		●	
021006	CEA Torch <b>CX 353/4 Up/Down-17p</b> 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%						
020472	CEA Torch <b>CXH 302/4</b> 4m - wire: Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%		≈		≈		
020479	CEA Torch <b>CXH 402/4</b> 4m - wire: Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%						≈
021005	CEA Torch <b>CXH 302/4 Up/Down-17p</b> 4m - wire: Ø 0,8/1,2 CO2 300A @100% / Mix 250A @ 100%						
021007	CEA Torch <b>CXH 402/4 Up/Down-17p</b> 4m - wire: Ø 0,8/1,6 CO2 500A @100% / Mix 450A @ 100%						
021016	CEA <b>Digitorch DX 353/4-D</b> 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%						
021015	CEA <b>Digitorch DXH 302/4-D</b> 4m - wire: Ø 0,8/1,2 CO2 300A @100% / Mix 250A @ 100%						
021017	CEA <b>Digitorch DXH 402/4-D</b> 4m - wire: Ø 0,8/1,6 CO2 500A @100% / Mix 450A @ 100%						
020488	Push Pull Torch <b>PP 401 D</b> 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)						
<i>For other torches see mig/mag accessories page</i>							
<b>TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE</b>							
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35%						
<b>GROUND CABLES</b>							
239601	35 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈				
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp			●	≈	●	≈
<b>GAS REDUCERS</b>							
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈	●	≈
<b>OTHER OPTION[S]</b>							
236590	Metallic spool adaptor						
460369	WPE 1 Water Hoses Extension Kit for non-standard water cooled CEA						
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈		≈
	DOGMA 276 PULSE XV Suggested air cooled version with torch	●					
	DOGMA 276 W PULSE XV Suggested water cooled version with torch		≈				
	DOGMA 326 PULSE XV Suggested air cooled version with torch			●			
	DOGMA 326 W PULSE XV Suggested water cooled version with torch				≈		
	DOGMA 406 PULSE XV Suggested air cooled version with torch					●	
	DOGMA 406 W PULSE XV Suggested water cooled version with torch						≈



# MAXI i

THE BEST SOLUTION FOR THE MOST COMMON WELDING CHALLENGES



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

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

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



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



## MAXI i FEATURES

- Very good arc characteristics, optimized for most common materials.
- Great robustness due to solid metallic main structure
- "Energy saving" function to operate the power source cooling fan and torch water cooling only when necessary
- Excellent arc striking always precise and efficient
- Reduced energy consumption
- 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 up to 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  $\varnothing$  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  $\varnothing$  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.



## TWO VERSION

To adapt MAXI i for any possible application, CEA proposes 2 version of the generator: MAXI i air cooled and MAXI i W water cooled. The same feeder can work in water cooled mode just by adding the MXi accessory kit.



MAXI i air cooled

MAXI i W water cooled

TECHNICAL DATA		MAXI i			
		406	406 W	506	506 W
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400
Input Power @ I <sub>2</sub> Max	kVA	17	17,5	23,5	24
Delayed Fuse (I <sub>eff</sub> )	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
Duty cycle at (40°C)	A 100 %	280	280	330	330
	A 60 %	320	320	400	400
	A 35 %	400	400	500	500
Wire	Ø mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10 •			
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 AIR	MAXI i 406 W WATER	MAXI i 506 AIR	MAXI i 506 W WATER
<b>POWER SOURCES</b>					
006170	Power source <b>MAXI 406 i</b> 400 V 3 phase	●			
006175	Power source <b>MAXI 406 i W</b> 400 V 3 phase		≈		
006180	Power source <b>MAXI 506 i</b> 400 V 3 phase			●	
006185	Power source <b>MAXI 506 i W</b> 400 V 3 phase				≈
<b>INTERCONNECTING CABLES FOR WF 5 / WF 6</b>					
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				
<b>INTERCONNECTING CABLES FOR WF 7</b>					
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 WF 7				
<b>WIRE FEEDERS</b>					
030637	Wire Feeder <b>WF 7</b> 4 rolls (Ø: 1,0 / 1,2) with V adjustment				
030636	Wire Feeder <b>WF 6</b> 4 rolls (Ø: 1,0 / 1,2)	●	≈	●	≈
030635	Closed Wire Feeder WF 5 4 rolls (Ø: 1,0 / 1,2)				
031122	<b>HK 2</b> Hanging Kit				
031009	Accessories type: <b>"MXI"</b> to connect water cooled interconnecting cable to the wire feeder		≈		≈
031116	<b>WK 4</b> standard wheels kit				
031007	<b>WK 2</b> extra-large wheels kit				
030927	<b>Wheels Kit</b> for WF 5 with additional fastening plate (code 030887) to fix interconnecting cable				
030887	<b>Fastening plate</b> to fix interconnecting cable to WF 5 (already included into 030927 wheels kit)				
030755	Wire Feeder <b>SWF STRONG FEEDER</b> with Euro Connect. 4 rolls (Ø: 1,0 / 1,2)				
<b>ALUMINIUM KIT</b>					
030895	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø: 0,8 / 1,0) and gears kit for Al wires				
030897	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø: 1,0 / 1,2) and gears kit for Al wires				
030899	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø: 1,2 / 1,6) and gears kit for Al wires				
<b>MIG MAG WELDING TORCHES</b>					
020466	CEA Torch CX <b>353/4</b> 4m - wire: Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	●		●	
020471	CEA Torch CX <b>451/4</b> 4m - wire: Ø 0,8/1,6 CO2 400A @60% / Mix 300A @60%				
020472	CEA Torch CXH <b>302/4</b> 4m - wire: Ø 0,8/1,2 water cooled - CO2 300A @100% / Mix 250A @100%				
020479	CEA Torch CXH <b>402/4</b> 4m - wire: Ø 0,8/1,6 water cooled - CO2 500A @100% / Mix 450A @100%		≈		≈
<i>For other torches see mig/mag accessories page</i>					
<b>GROUND CABLES</b>					
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈	●	≈
<b>GAS REDUCERS</b>					
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈
<b>OTHER OPTION[S]</b>					
031126	<b>DHS</b> - Double Hook Support for winding cables				
031124	TS1 - Torch support KIT (WF6 - WF7)				
030903	Extention cable for changeover polarity				
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈
236590	Metallic spool adaptor				
	MAXI 406 i Suggested air cooled version with torch	●			
	MAXI 406 i W Suggested water cooled version with torch		≈		
	MAXI 506 i Suggested air cooled version with torch			●	
	MAXI 506 i W Suggested water cooled version with torch				≈

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
<b>KIT RETROFIT FOR WATER</b>					
031012	Kit for Retrofit <b>IR 14</b>	≈		≈	
031009	Accessories type: <b>"MXI"</b> to connect water cooled interconnecting cable to the wire feeder				
<b>WATER COOLING</b>					
032050	Water cooling equipment <b>IR 14</b> 400 V	≈		≈	



# MAXI i SYNERGIC NEW

SIMPLE, STRONG, MULTIPROCESS AND SYNERGIC



**MAXI i SYNERGIC** are multi-process equipment 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 MIG-MAG, MMA, TIG with "Lift" mode.

The user-friendly interface makes **MAXI i SYNERGIC** easy to operate without any advanced training. 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.

**MAXI i SYNERGIC** 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.



- Full synergic control
- Multi-Process
- Simple, strong and reliable
- Great welding performance

#### STANDARD INCLUDED



## MAXI i SYNERGIC 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 JOB" key to quickly recall 3 favourite JOBS
- "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) or retrofittable thanks to the dedicated water cooling retrofit kit

## WIRE FEEDER WF710 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  $\varnothing$  300 mm
- **INSPECTION WINDOW** in the spool cover
- **HK2** Hanging Kit (optional)
- **LONG INTERCONNECTING CABLE** are available for MAXI i SYNERGIC equipment in the air cooled version over 50 m



## FSC - Fast Start Control

It is the innovative arc striking control that reduces drastically the ignition time. With 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, MAXI i SYNERGIC power sources can be easily integrated into automated welding equipment without any expensive and sophisticated external interfaces usually necessarily supplied for robotics.




## TWO VERSIONS

To adapt MAXI i SYNERGIC for any possible application, CEA proposes 2 versions of the generator: MAXI i SYNERGIC air cooled and MAXI i SYNERGIC W water cooled. The same feeder can work in water cooled mode just by adding the MXi SYN accessory kit.

MAXI i SYNERGIC air cooled

MAXI i SYNERGIC W water cooled



TECHNICAL DATA		MAXI i SYNERGIC			
		410	410 W	510	510 W
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400
Input Power @ I <sub>2</sub> 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
Duty cycle at (40°C)	A 100 %	280	280	330	330
	A 60 %	320	320	400	400
	A 35 %	400	400	500	500
Wire	∅ mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10 • 			
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 SYNERGIC			
		410 AIR	410 W WATER	510 AIR	510 W WATER
POWER SOURCES					
006174	Power Source <b>MAXI 410 i SYNERGIC</b> 400V 3 Phase - ECP (Extra Curves Package) included	●			
006179	Power Source <b>MAXI 410 i W SYNERGIC</b> 400V 3 Phase - ECP (Extra Curves Package) included		≈		
006184	Power Source <b>MAXI 510 i SYNERGIC</b> 400V 3 Phase - ECP (Extra Curves Package) included			●	
006189	Power Source <b>MAXI 510 i W SYNERGIC</b> 400V 3 Phase - ECP (Extra Curves Package) included				≈
INTERCONNECTING CABLES					
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	●		●	
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder				
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder				
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≈		≈
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder				
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder				
WIRE FEEDERS					
030663	Wire Feeder <b>WF 710</b> air-cooled with Euro connect. 4 rolls (Ø 1,0 / 1,2)	●	≈	●	≈
031019	Accessories type: <b>"MXi SYN"</b> to connect water cooled interconnecting cable to the wire feeder		≈		≈
031124	TS1 - Torch support				
031122	<b>HK 2</b> Hanging Kit				
031116	<b>WK 4</b> standard wheels kit				
031007	<b>WK 2</b> extra-large wheels kit				
ALUMINIUM WIRE ROLL KIT					
030895	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 0,8 / 1,0) and gears kit for Al wires				
030897	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,0 / 1,2) and gears kit for Al wires				
030899	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,2 / 1,6) and gears kit for Al wires				
FLUX CORED WIRE ROLL KIT					
030829	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,0 / 1,2) and gears kit for flux cored wires				
030821	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,2 / 1,6) and gears kit for flux cored wires				
MIG MAG WELDING TORCHES					
020466	CEA Torch <b>CX 353/4</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	●			
020471	CEA Torch <b>CX 451/4</b> 4 m wire Ø 0,8/1,6 CO2 400A @60% / Mix 300A @60%			●	
021006	CEA Torch <b>CX 353/4</b> Up/Down-17p 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
020472	CEA Torch <b>CXH 302/4</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%				
020479	CEA Torch <b>CXH 402/4</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%		≈		≈
021005	CEA Torch <b>CXH 302/4</b> Up/Down-17p 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%				
021007	CEA Torch <b>CXH 402/4</b> Up/Down-17p 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%				
021021	CEA <b>Digitorch DX 353/4-17p</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
021020	CEA <b>Digitorch DXH 302/4-17p</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%				
021022	CEA <b>Digitorch DXH 402/4-17p</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%				
031113	Push Pull synchronizer PC Board KIT 24 / 42 V (to be ordered with the Push pull torch)				
GROUND CABLES					
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈	●	≈
GAS REDUCERS					
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈
OTHER OPTION[S]					
031126	<b>DHS</b> - Double Hook Support for winding cables				
030903	Extention cable for changeover polarity				
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈
236590	Metallic spool adaptor				
	<b>MAXI 410 i SYNERGIC</b> Suggested air cooled version with torch	●			
	<b>MAXI 410 i W SYNERGIC</b> Suggested water cooled version with torch		≈		
	<b>MAXI 510 i SYNERGIC</b> Suggested air cooled version with torch			●	
	<b>MAXI 510 i W SYNERGIC</b> Suggested water cooled version with torch				≈

OPTIONAL KIT TO RETROFIT MAXI i SYNERGIC AIR COOLED VERSION INTO MAXI i SYNERGIC WATER COOLED VERSION

CODE	DESCRIPTION	MAXI i SYNERGIC			
		410 AIR	410 W WATER	510 AIR	510 W WATER
KIT RETROFIT FOR WATER					
031012	Kit for Retrofit <b>IR 14</b>			≈	
031019	Accessories type: <b>"MXi SYN"</b> to connect water cooled interconnecting cable to the wire feeder				
WATER COOLING					
032050	Water cooling equipment <b>IR 14</b> 400 V			≈	



# QUBOX / QUBOX PULSE

## BACK TO WELD



**QUBOX**



**QUBOX PULSE**

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



vision.PULSE

- 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  $\varnothing$  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  $\varnothing$  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  
To weld thin thickness laminations with low heat transfer



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



vision.ULTRASPEED  
For high speed welding



ECP  
Extra curve package

### ON DEMAND



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

TECHNICAL DATA		QUBOX			QUBOX PULSE			
		400	400 W	500 W	335	335 W	405 W	505 W
Three phase input 50/60 Hz	V +/- 20%	400	400	400	400	400	400	400
Input Power @ I <sub>2</sub> 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 cycle at (40°C)	A 100 %	350	350	420	300	300	350	420
	A 60 %	400	400	500	330	330	400	500
Wire	∅ mm	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6	0,6 - 1,6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10. [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	1030 X 950 X 515	1030 X 950 X 515	1030 X 950 X 515
Weight	Kg	70	80	86	70	80	80	86

ORDER INFORMATION

CODE	DESCRIPTION	QUBOX			QUBOX PULSE			
		400 AIR	400W WATER	500W WATER	335 AIR	335W WATER	405W WATER	505W WATER
POWER SOURCES								
004730	Power Source <b>QUBOX 400</b> 400 V	●						
004740	Power Source <b>QUBOX 400 W</b> 400 V Water cooled		≈					
004745	Power Source <b>QUBOX 500 W</b> 400 V Water cooled			≈				
004766	Power Source <b>QUBOX 335 PULSE</b> 400 V				●			
004771	Power Source <b>QUBOX 335 W PULSE</b> 400 V Water cooled					≈		
004770	Power Source <b>QUBOX 405 W PULSE</b> 400 V Water cooled						≈	
004775	Power Source <b>QUBOX 505 W PULSE</b> 400 V Water cooled							≈
STANDARD MODELS include Programs for Fe - CrNi - Al and TIG / MMA functions								
PREMIUM VERSION - POWER SOURCES								
004730PR	Power Source <b>QUBOX 400</b> 400 V <b>PREMIUM</b>							
004740PR	Power Source <b>QUBOX 400 W</b> 400 V <b>PREMIUM</b> water cooled							
004745PR	Power Source <b>QUBOX 500 W</b> 400 V <b>PREMIUM</b> water cooled							
004766PR	Power Source <b>QUBOX 335 PULSE</b> 400 V <b>PREMIUM</b>							
004771PR	Power Source <b>QUBOX 335 W PULSE</b> 400 V <b>PREMIUM</b> water cooled							
004770PR	Power Source <b>QUBOX 405 W PULSE</b> 400 V <b>PREMIUM</b> water cooled							
004775PR	Power Source <b>QUBOX 505 W PULSE</b> 400 V <b>PREMIUM</b> water cooled							
PREMIUM MODELS include already install vision.COLD vision.ULTRASPEED vision.POWER and ECP								
SOFTWARE FOR SPECIAL MIG/MAG PROCESS								
050010	<b>vision.PIPE</b> for first root pass of pipes in MIG/MAG (*)							
050050	<b>ECP-Extra Curves Package</b> to meet special application (*)							
NOTE:	(*) TO BE INSTALLED ONLY IN CEA BEFORE DELIVERING THE EQUIPMENT							
INTERCONNECTING CABLES								
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	●			●			
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder							
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder							
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≈	≈		≈	≈	≈
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder							
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder							
WIRE FEEDERS								
030726	Wire Feeder <b>QF 7 W PRO DRIVE</b> w.4 rolls (Ø: 1,0/1,2) Water cooled	●	≈	≈	●	≈	≈	≈
031116	<b>WK 4</b> standard wheels kit							
031007	<b>WK 2</b> extra-large wheels kit							
031117	<b>HK 1</b> Hanging Kit							
465373	<b>WS1</b> - Balanced arm for Wire Feeder (not with with CT 70)							
YARD WIRE FEEDERS								
030724	Wire Feeder <b>YARD 4</b> with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Air cooled version							
030729	Wire Feeder <b>YARD 4 W</b> with A/V and Flowmeter 4 rolls (Ø: 1,0 / 1,2) Water cooled version							
ALUMINIUM KIT								
030895	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø: 0,8/1,0) and gears kit for Al wires							
030897	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø: 1,0/1,2) and gears kit for Al wires							
030899	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø: 1,2/1,6) and gears kit for Al wires							
MIG MAG WELDING TORCHES								
020466	CEA Torch <b>CX 353/4</b> 4 m wire Ø 0,8/1,2 C02 340A @60% / Mix 290A @60%	●			●			
020471	CEA Torch <b>CX 451/4</b> 4 m wire Ø 0,8/1,6 C02 400A @60% / Mix 300A @60%							
021006	CEA Torch <b>CX 353/4</b> Up/Down-17p 4m wire Ø 0,8/1,2 C02 340A @60% / Mix 290A @60%							
020472	CEA Torch <b>CXH 302/4</b> 4 m wire Ø 0,8/1,2 water cooled C02 300A @100% / Mix 250A @100%					≈		
020479	CEA Torch <b>CXH 402/4</b> 4 m wire Ø 0,8/1,6 water cooled C02 500A @100% / Mix 450A @100%		≈	≈			≈	≈
021007	CEA Torch <b>CXH 402/4</b> Up/Down-17p 4 m wire Ø 0,8/1,6 C02 500A @ 100% / Mix 450A @100%							
021021	CEA <b>Digitorch DX 353/4-17p</b> 4 m wire Ø 0,8/1,2 C02 340A @60% / Mix 290A @60%							
021022	CEA <b>Digitorch DXH 402/4-17p</b> 4 m wire Ø 0,8/1,6 C02 500A @100% / Mix 450A @100%							
For other torches see mig/mag accessories page								
TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE								
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35%							
GROUND CABLES								
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈		●	≈	≈	
239607	70 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp			≈				≈
GAS REDUCERS								
020916	Reducer with flowmeter and 1 manometer	●	≈	≈	●	≈	≈	≈
OTHER OPTION[S]								
031126	<b>DHS</b> - Double Hook Support for winding cables							
030903	Extention cable for changeover polarity							
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈	≈		≈	≈	≈
353473	Dust Air Filter (package of 4 pcs)							
236590	Metallic spool adaptor							
236234	<b>RC 178</b> remote control with 5 m cable							
460264	4+3 m 70 mm <sup>2</sup> cables with electrodeholder pincer, ground clamp - brush/hammer - shield with lens							
	<b>QUBOX 400</b> Suggested air cooled version with torch	●						
	<b>QUBOX 400 W</b> Suggested water cooled version with torch		≈					
	<b>QUBOX 500 W</b> Suggested water cooled version with torch			≈				
	<b>QUBOX 335 PULSE</b> Suggested air cooled version with torch				●			
	<b>QUBOX 335 W PULSE</b> Suggested water cooled version with torch					≈		
	<b>QUBOX 405 W PULSE</b> Suggested water cooled version with torch						≈	
	<b>QUBOX 505 W PULSE</b> Suggested water cooled version with torch							≈



# DIGITECH VP4

## THE WELDING EDGE



**DIGITECH VP4 (Vision Pulse 4)** are the most advanced and top performing multi-process pulse welding equipment of CEA.

Developed with the latest CEA arc control software, **DIGITECH VP4** obtain incredible quality results with any material in all welding applications.

**DIGITECH VP4** are characterized by the new X Vision Plus 7" 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 PULSE MIG, DUAL PULSE, MIG-MAG, MMA and TIG with "lift" arc striking.

**DIGITECH VP4** are open to be connected to a LAN, 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 3504 VP4** is the compact version designed with a built-in feeder and possibility to be connected to a separate wire feeder, while **DIGITECH 4004 VP4 and 5004 VP4** use a separate wire feeder.



VISION ARC2

vision.PULSE

dual.PULSE

- Top welding performance
- X Vision Plus 7" 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
- X Vision Plus 7" LCD colour display with "TWO CLICK KNOB" encoders to keep under control the whole welding process
- Monitoring and repeatability of the welding parameters
- Excellent arc striking always precise and efficient
- High position of the torch connector with inclined exit to optimize the welding wire's flow (DIGITECH 3504 COMPACT)
- 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 and Digtorch
- LAN connectivity to the network via Ethernet port or WIFI (Optional)
- Data storing and data printing ability (Optional)

## WIRE FEEDER HT8 PRO DRIVE

- **PROFESSIONAL WIRE FEEDING** mechanism with 4 rolls of large diameter for a precise and constant wire driving
- **DOUBLE GROOVE ROLLS** replaceable thanks to a quick release system without any tool
- **LOADING FOR WIRE SPOOLS** up to Ø 300 mm
- **LED LIGHT** in the feeder compartment
- **INSPECTION WINDOWS** in the spool cover
- **HK1** Hanging Kit
- **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



### TOP END WIRE FEEDING



**DOUBLE GEAR**  
wire feeding system



**ERGONOMIC UNLOCKING**  
of the roller fastening system



**EASY ROLLS**  
**SUBSTITUTION**  
without any tools



**TWINS ROLLS**  
for welding all  
wires



**Color coded for instant**  
wire thickness  
recognition



## DIGITECH 3504 VP4

### COMPACT WITH OPTIONAL SEPARATED WIRE FEEDER

DIGITECH 3504 VP4 COMPACT can be also fitted with a separate wire feeder to benefit of a double feeder layout. This represents the ideal solution whenever a greater flexibility is needed in all applications using two different types of material, wire or gas.

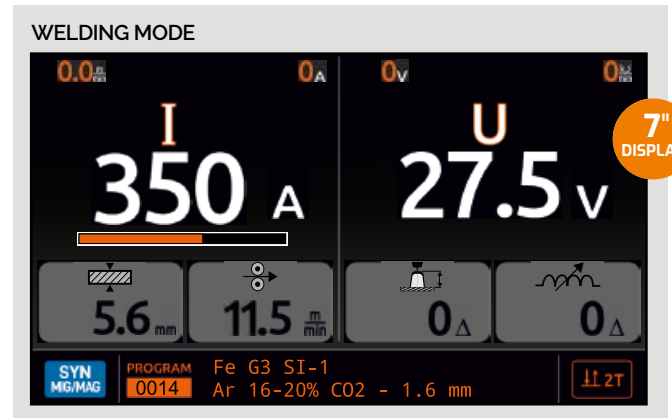


DIGITECH 3504 VP4 COMPACT

DIGITECH 3504 VP4 COMPACT with additional separated HT8 wire feeder

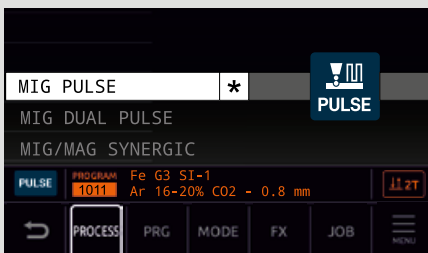
## X VISION PLUS 7" CONTROL DISPLAY

DIGITECH VP4 are fitted with the innovative colour display with icons and a clear infographic, which 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 VP4 power sources offer to 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.

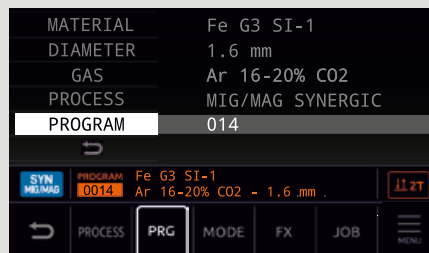


## USER FRIENDLY INTERFACE

### PROCESS SELECTION



### PROGRAM SELECTION



### WELDING SET UP



## DOUBLE FEEDER

DIGITECH 4004 / 5004 VP4 offer the possibility to manage a second HT8 wire feeder.

DIGITECH 4004 / 5004 VP4 in the version with double wire feeder represent the ideal solution whenever a greater flexibility is needed in all applications using two different types of material, wire or gas.



## SPECIAL PROCESSES

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

### MIG MAG



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



**vision.ULTRASPEED**  
For high speed welding



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



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

### MIG PULSED



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



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



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

### ECP



**E.C.P.**  
EXTRA CURVE PACKAGE  
A complete set of welding curves for different materials

## CWS - CEA WELDING SUPERVISOR - OPTIONAL

CEA WELDING SUPERVISOR is the best solution for recording and storing any welding data and settings of your DIGITECH VP4. This advanced software brings you the unparalleled advantage of a WEB based user-friendly interface together with a precise and usable data recording.

It is possible to:

- Fix current and voltage limits
- Read live welding data
- Create quality report
- Export welding data in Excel®
- Access the error log page
- Calculate the costs of the welding process
- Select jobs from remote
- Connect to a LAN (i.e. MES) using MODBUS-TCP or OPCUA protocols

### WELDER PAGE



TECHNICAL DATA		DIGITECH VP4		DIGITECH VP4	
		3504	4004	4004	5004
Three Phase input 50/60 Hz	V +10% -10%	400	400	400	400
Input Power @ I <sub>2</sub> Max	kVA	19,7	22,1	27,6	
Delayed Fuse (I <sub>eff</sub> )	A	20	32	40	
Power Factor / cos φ		0,64/0,99	0,70/0,99	0,79/0,99	
Efficiency Degree		0,88	0,88	0,89	
Open circuit voltage	V	63	62	62	
Current range	A	10 - 350	10 - 400	10 - 500	
Duty cycle at (40°C)	A 100 %	250	350	400	
	A 60 %	280	400	460	
	A X %	350 (30%)	-	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 [S]			
Protection Class	IP	23 S	23 S	23 S	
Dimensions (L x W x H)	mm	725 x 310 x 525	725 x 310 x 525	725 x 310 x 525	
Weight	Kg	43	45	47	

## DIGITECH 3504 VP4

CODE	DESCRIPTION	DIGITECH VP4 3504		DIGITECH VP4 3504	
		COMPACT		COMPACT WITH SEPARATE FEEDER	
		AIR	WATER	AIR	WATER
POWER SOURCES					
004900	Power Source <b>DIGITECH 3504 VP4</b> 400V (4 rolls for wire diam. 1,0/1,2mm) <i>(Available from june 2026)</i>	●	≈	●	≈
SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE					
004900PR	Power Source <b>DIGITECH 3504 VP4 PREMIUM</b> 400V with vision.FULL PACKAGE <i>(Available from june 2026)</i>				
SOFTWARE FOR SPECIAL MIG/MAG PROCESS					
050005	<b>SM1 - SPECIAL MIG</b> Process Package including: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP				
050006	<b>SP2 - PERFORMANCE</b> Process Package including: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP				
050007	<b>SFP - vision.FULL-PACKAGE</b> complete package with Special MIG Process Package (SM1) and Special PULSE Process: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP				
050052	<b>ECP</b> - Extra Curves Package to meet special application				
INTERCONNECTING CABLES					
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder			●	≈
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder				
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder				
WIRE FEEDERS					
030718	Wire Feeder <b>HT 8 PRO DRIVE</b> with Euro Connect. 4 rolls (Ø 1,0 / 1,2)			●	≈
031116	<b>WK 4</b> standard wheels kit				
031007	<b>WK 2</b> extra-large wheel kit				
031117	<b>HK 1</b> Hanging Kit for wire feeder				
030871	<b>DS1</b> kit for DIGITECH compact version with additional external wire feeder			●	≈
465373	<b>WS1</b> - Balanced arm for Wire Feeder (not with with CT 70)				
031135	Adaptor kit for WS1 with DIGITECH				
SOLID WIRE ROLL KIT					
031033	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 0,8/1,0)				
031034	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
031035	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
ALUMINIUM WIRE ROLL KIT					
031030	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 0,8/1,0)				
031031	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
031032	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
FLUX CORED WIRE ROLL KIT					
030824	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
030825	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
MIG MAG WELDING TORCHES					
020466	CEA Torch <b>CX 353/4</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	●		●	
021006	CEA Torch <b>CX 353/4</b> Up/Down-17p 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
020472	CEA Torch <b>CXH 302/4</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%		≈		≈
021005	CEA Torch <b>CXH 302/4</b> Up/Down-17p 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%				
021021	CEA <b>Digitorch DX 353/4-17p</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
021020	CEA <b>Digitorch DXH 302/4-17p</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%				
031113	Push Pull synchronizer PC Board KIT 24 / 42 V (to be ordered with the Push pull torch)				
TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE					
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35%				
WATER COOLING					
032130	Water cooling equipment <b>HRX 52</b> 400 V		≈		≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈
TROLLEYS					
031008	<b>WK 3</b> extra-large wheels kit for power sources (without gas bottle)				
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)				
234932	Trolley <b>PRIME CT 80</b> for power source, cylinder (and autotransformer)	●	≈	●	≈
344015	<b>BK 1</b> Accessory BOX kit				
GROUND CABLES					
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈	●	≈
GAS REDUCERS					
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈
OTHER OPTION[S]					
031132	TS2 - Torch support KIT				
353486	<b>DFX5</b> - Dust Filter for DIGITECH and MATRIX X 400 / X 500				
236590	Metallic spool adaptor				
236234	<b>RC 178</b> remote control with 5 m cable				
020340	Autotransformer <b>A 13-H</b> 220/400 V 50/60 Hz 3 Phase				
460292	4+3 m 35 mm <sup>2</sup> cables with electrodeholder pincer, ground clamp and 50 mm <sup>2</sup> safety connections - brush/hammer - shield with lens				
DIGITECH 3504 VP4 COMPACT Suggested air cooled version with torch		●			
DIGITECH 3504 VP4 COMPACT Suggested water cooled version with torch			≈		
DIGITECH 3504 VP4 COMPACT Suggested air cooled version with torch and additional separated wire feeder				●	
DIGITECH 3504 VP4 COMPACT Suggested water cooled version with torch and additional separated wire feeder					≈

## DIGITECH 4004 / 5004 VP4

CODE	DESCRIPTION	DIGITECH VP4 4004		DIGITECH VP4 5004	
		AIR	WATER	AIR	WATER
POWER SOURCES					
004910	Power Source <b>DIGITECH 4004 VP4</b> 400 V	●	≈		
004915	Power Source <b>DIGITECH 5004 VP4</b> 400 V			●	≈
SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE					
004910PR	Power Source <b>DIGITECH 4004 VP4 (PREMIUM)</b> 400 V with vision.FULL PACKAGE				
004915PR	Power Source <b>DIGITECH 5004 VP4 (PREMIUM)</b> 400 V with vision.FULL PACKAGE				
SOFTWARE FOR SPECIAL MIG/MAG PROCESS					
050005	<b>SM1 - SPECIAL MIG</b> Process Package: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP				
050006	<b>SP2 - PERFORMANCE</b> Process Package: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP				
050007	<b>SFP - vision.FULL-PACKAGE</b> complete package with Special MIG Process Package (SM1) and Special PULSE Process: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP				
050052	<b>ECP</b> -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 Power source-Wire feeder				
010846	10 m Air / Water cooled Interconnecting cable Power source-Wire feeder				
WIRE FEEDERS					
030718	Wire Feeder <b>HT 8 PRO DRIVE</b> 4 rolls (Ø 1,0/1,2)	●	≈	●	≈
031116	<b>WK 4</b> standard wheels kit for HT 6 PRO DRIVE feeder				
031007	<b>WK 2</b> extra-large wheels kit for HT 6 PRO DRIVE feeder				
031117	<b>HK 1</b> Hanging Kit for HT 6 PRO DRIVE feeder				
465373	<b>WS1</b> - Balanced arm for Wire Feeder (not with with CT 70)				
031135	Adaptor kit for WS1 with DIGITECH				
SOLID WIRE ROLL KIT					
031033	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 0,8/1,0)				
031034	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
031035	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
ALUMINIUM WIRE ROLL KIT					
031030	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 0,8/1,0)				
031031	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
031032	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
FLUX CORED WIRE ROLL KIT					
030824	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
030825	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
MIG MAG WELDING TORCHES					
020471	CEA Torch <b>CX 451/4</b> 4 m wire Ø 0,8/1,6 CO2 400A @60% / Mix 300A @60%	●		●	
021006	CEA Torch <b>CX 353/4</b> Up/Down-17p 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
020479	CEA Torch <b>CXH 402/4</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%		≈		≈
021007	CEA Torch <b>CXH 402/4</b> Up/Down-17p 4 m wire Ø 0,8/1,6 water cooled CO2 500A @ 100% / Mix 450A @100%				
021021	CEA <b>Digitorch DX 353/4-17p</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
021022	CEA <b>Digitorch DXH 402/4-17p</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%				
031113	Push Pull synchronizer PC Board KIT 24 / 42 V (to be ordered with the Push pull torch)				
TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE					
020568	Torch <b>RTX 26.4</b> 4 m - 180 A 35%				
WATER COOLING					
032125	Water cooling equipment <b>HRX 51</b> 400 V		≈		≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈
TROLLEYS					
031008	<b>WK 3</b> extra-large wheels kit for power sources (without gas bottle)				
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)				
234932	Trolley <b>PRIME CT 80</b> with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)				
234934	Trolley <b>PRIME CT 81</b> with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	●	≈	●	≈
344015	<b>BK 1</b> Accessory BOX kit				
GROUND CABLES					
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈		
239607	70 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp			●	≈
GAS REDUCERS					
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈
OTHER OPTION[S]					
353486	<b>DFX5</b> - Dust Filter for DIGITECH and MATRIX X 400 / X 500				
030903	Extention cable for changeover polarity				
236590	Metallic spool adaptor				
236234	<b>RC 178</b> remote control with 5 m cable				
020340	Autotransformer <b>A 13-H</b> 220/400 V 50/60 Hz 3 Phase				
460262	4+3 m 50 mm <sup>2</sup> cables with electrodeholder pincer, ground clamp and 50mm <sup>2</sup> safety connections brush/hammer - shield with lens				
	DIGITECH 4004 VP4 Suggested air cooled version with torch	●			
	DIGITECH 4004 VP4 Suggested water cooled version with torch		≈		
	DIGITECH 5004 VP4 Suggested air cooled version with torch			●	
	DIGITECH 5004 VP4 Suggested water cooled version with torch				≈

# DIGITECH DOUBLE FEEDER

## ORDER INFORMATION

CODE	DESCRIPTION	DIGITECH VP4 4004		DIGITECH VP4 5004	
		AIR	WATER	AIR	WATER
POWER SOURCES					
004910	Power Source <b>DIGITECH 4004 VP4</b> 400 V	●	≈		
004915	Power Source <b>DIGITECH 5004 VP4</b> 400 V			●	≈
SPECIAL VERSION - POWER SOURCE FITTED WITH SOFTWARE					
004910PR	Power Source <b>DIGITECH 4004 VP4 PREMIUM</b> 400 V with vision.FULL PACKAGE				
004915PR	Power Source <b>DIGITECH 5004 VP4 PREMIUM</b> 400 V with vision.FULL PACKAGE				
SOFTWARE FOR SPECIAL MIG/MAG PROCESS					
050005	<b>SM1 - SPECIAL MIG</b> Process Package: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP				
050006	<b>SP2 - PERFORMANCE</b> Process Package: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP				
050007	<b>SFP - vision.FULL-PACKAGE</b> complete package with Special MIG Process Package (SM1) and Special PULSE Process: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP				
050052	<b>ECP</b> - Extra Curves Package to meet special application				
EN 1090 WPQR - WPS					
Collection of WPQR - WPS for DIGITECH					
INTERCONNECTING CABLES					
010839	1,2 m Air / Water cooled Interconnecting cable Power source-Wire feeder	● X2	≈ X2	● X2	≈ X2
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					
030718	Wire Feeder <b>HT 8 PRO DRIVE</b> 4 rolls (Ø 1,0/1,2)	● X2	≈ X2	● X2	≈ X2
031120	Connection Kit for DOUBLE HT 8 wire feeder system for DIGITECH VP4	●	≈	●	≈
SOLID WIRE ROLL KIT					
031033	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 0,8/1,0)				
031034	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
031035	<b>Solid wire Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
ALUMINIUM WIRE ROLL KIT					
031030	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 0,8/1,0)				
031031	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
031032	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
FLUX CORED WIRE ROLL KIT					
030824	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2)				
030825	<b>Flux cored Kit</b> of double grooved TWIN rolls (Ø 1,2/1,6)				
MIG MAG WELDING TORCHES					
020466	CEA Torch <b>CX 353/4</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
020471	CEA Torch <b>CX 451/4</b> 4 m wire Ø 0,8/1,6 CO2 400A @60% / Mix 300A @60%	● X2		● X2	
021006	CEA Torch <b>CX 353/4</b> Up/Down-17p 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
020472	CEA Torch <b>CXH 302/4</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%				
020479	CEA Torch <b>CXH 402/4</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%		≈ X2		≈ X2
021007	CEA Torch <b>CXH 402/4</b> Up/Down-17p 4 m wire Ø 0,8/1,6 water cooled CO2 500A @ 100% / Mix 450A @100%				
021021	CEA <b>Digitorch DX 353/4-17p</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				
021020	CEA <b>Digitorch DXH 302/4-17p</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%				
021022	CEA <b>Digitorch DXH 402/4-17p</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%				
031113	Push Pull synchronizer PC Board KIT 24 / 42 V (to be ordered with the Push pull torch)				
WATER COOLING					
032125	Water cooling equipment <b>HRX 51</b> 400 V		≈		≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈
TROLLEYS					
234935	Trolley <b>PRIME CT 82</b> Large for power source and 2 gas cylinders and autotransformer	●	≈	●	≈
344015	<b>BK1</b> Accessory BOX kit				
GROUND CABLES					
239603	<b>50 mm<sup>2</sup></b> / 4 m <b>Ground cable</b> with clamp	●	≈		
239607	<b>70 mm<sup>2</sup></b> / 4 m <b>Ground cable</b> with clamp			●	≈
GAS REDUCERS					
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈
OTHER OPTION[S]					
353486	<b>DFX5</b> - Dust Filter for DIGITECH and MATRIX X 400 / X 500				
030903	Extention cable for changeover polarity				
236590	Metallic spool adaptor				
236234	<b>RC 178</b> remote control with 5 m cable				
020340	Autotransformer <b>A 13-H</b> 220/400 V 50/60 Hz 3 Phase				
	DIGITECH 4004 VP4 with Double Feeder HT 8 - Suggested air cooled version with torch	●			
	DIGITECH 4004 VP4 with Double Feeder HT 8 - Suggested water cooled version with torch		≈		
	DIGITECH 5004 VP4 with Double Feeder HT 8 - Suggested air cooled version with torch			●	
	DIGITECH 5004 VP4 with Double Feeder HT 8 - Suggested water cooled version with torch				≈







# TIG

- 62 RAINBOW HF
- 64 MATRIX HF - MATRIX AC/DC
- 68 MATRIX X HF
- 72 MATRIX X AC/DC



# RAINBOW HF

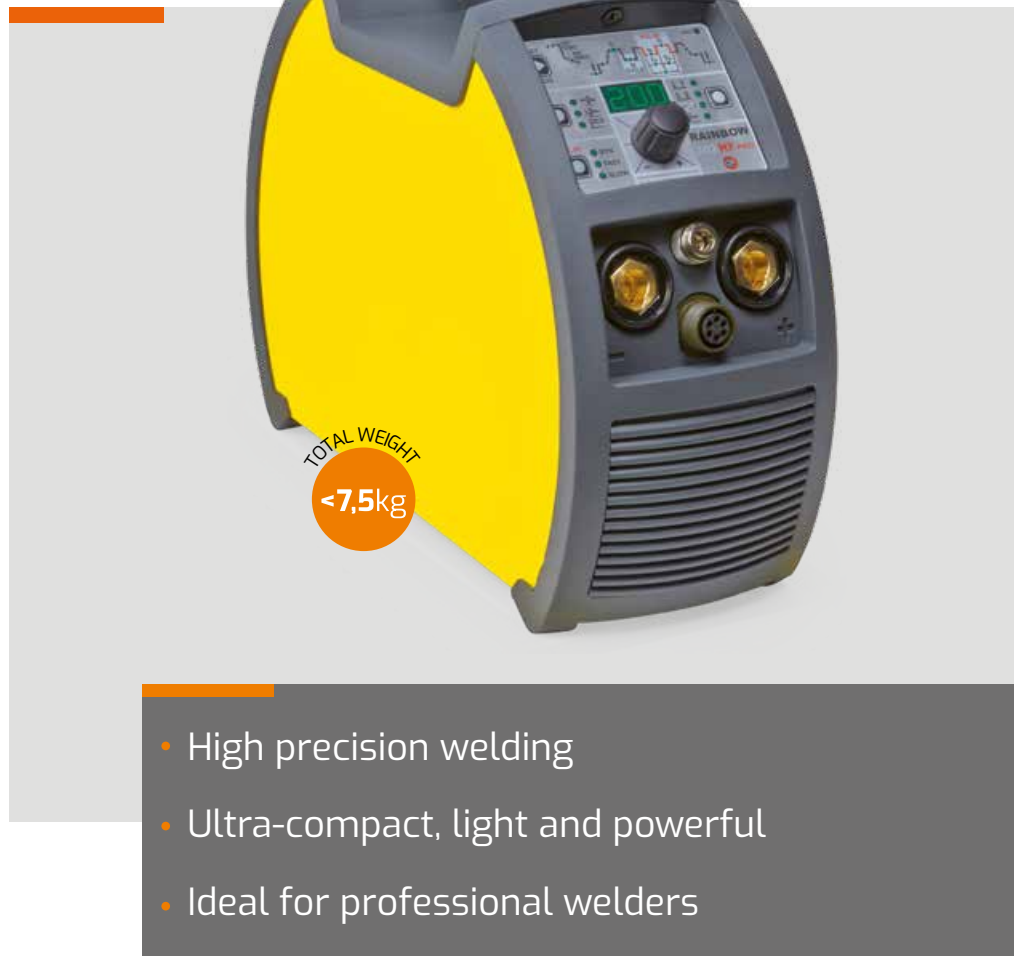
OUR ICON FOR PRECISION DC TIG WELDING



**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

RAINBOW HF PRO



TECHNICAL DATA		RAINBOW 201 HF		RAINBOW 182 HF PRO		RAINBOW 202 HF PRO	
		TIG DC	MMA	TIG DC	MMA	TIG DC	MMA
Single phase input 50/60 Hz	V +20% -20%	230	230	230	230	230	230
Input Power @ I <sub>2</sub> 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
Duty cycle at (40°C)	A 100 %	120	110	110	80	120	110
	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 60974-3 · EN 60974-10					
Protection Class		23 S	23 S	23 S	23 S	23 S	23 S
Dimensions (L x W x H)	mm	390 x 135 x 300		390 x 135 x 300		390 x 135 x 300	
Weight	Kg	7,5		7,5		7,5	

## PULSE MODE

(RAINBOW 182 HF pro - 202 HF pro)



### SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current



### FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz



### SLOW PULSE

Adjust separately current/time of peak and base



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

## "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.

## ORDER INFORMATION

CODE	DESCRIPTION	RAINBOW 201 HF	RAINBOW 182 HF PRO	RAINBOW 202 HF PRO
POWER SOURCES				
004125	Power Source <b>RAINBOW 201 HF</b> 230 V	●		
004115	Power Source <b>RAINBOW 182 HF PRO</b> 230 V		●	
004126	Power Source <b>RAINBOW 202 HF PRO</b> 230 V			●
WELDING TORCHES				
020553	CEA Torch <b>TXA 174</b> 4 m 140 A 60% (DC)	●	●	●
020662	CEA Torch <b>TXA 26.4 "UP/DOWN"</b> 4 m 250 A 60% (DC)	●	●	●
<i>For torches with 8 m long cable see tig accessories</i>				
GROUND CABLES				
239618	25 mm <sup>2</sup> / 3 m <b>Ground cable</b> with clamp	●	●	●
GAS REDUCERS				
020916	Reducer with flowmeter and 1 manometer	●	●	●
OTHER OPTION[S]				
030963	<b>Rainbow Bag</b>			
030940	<b>Carrying Belt Kit</b>			
236243	<b>CD 6/8</b> 8 m manual remote control			
020919	<b>PSR 7</b> 5 m foot remote control			
460056	Adapter for simultaneous connection of Torch and PSR 7			
460005	<b>A6</b> 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 - MATRIX AC/DC

THE PERFECT SOLUTION FOR TIG



**MATRIX HF** in direct current and **MATRIX AC/DC** in direct and alternating current are technologically advanced, powerful and compact TIG generators with a complete and easy-to-use interface for total control of all welding parameters.

**MATRIX HF** ensures excellent TIG welding performance on mild and stainless steel, copper and its alloys; **MATRIX AC/DC** allows TIG welding also on aluminum and its alloys, in the toughest industry and maintenance applications.

Ideal for the most demanding industrial applications and maintenance work, **MATRIX HF** and **AC/DC** offer excellent MMA welding performance even with the most difficult basic and cellulose electrodes.

The single-phase **MATRIX 2200 HF** and **2200 AC/DC** models optimise energy consumption with the PFC device and are the ideal choice for any welding where power and portability are required.



- High precision welding
- Excellent performance
- Complete TIG feature

## MATRIX HF - 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
- 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
- TIG AC: electrode polarity arc ignition
- 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



MATRIX AC/DC



## TIG RCT - Running coldTACK

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

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



## coldTACK

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

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

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



## CONTROL DISPLAY

- Digital Ammeter and Voltmeter with welding current presetting and Hold Function of the last read value
- Welding process selector: TIG AC • TIG DC • TIG DC "Lift" • MMA DC • MMA AC
- Pulse TIG welding adjustable from 0,5 up to 2000 Hz with available "EASY PULSE" features
- Tungsten electrode diameter presetting for a better control of the arc striking and arc dynamics

### MATRIX AC/DC

- AC square wave balance and Balance Plus
- AC square wave frequency adjustment
- Wave Selector: Square • Mixed • Sinusoidal • Triangular



## MMA FUNCTIONS

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

## CYCLE FUNCTION

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

## PULSE DC MODE

**SYN PULSE**

### SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current

**FAST PULSE**

### FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz

**ULTRA FAST**

### ULTRA FAST

**HIGH PULSE FREQUENCY IN DC**  
Adjust frequency up to 2000 Hz

### PULSE DC AND AC/DC MODE

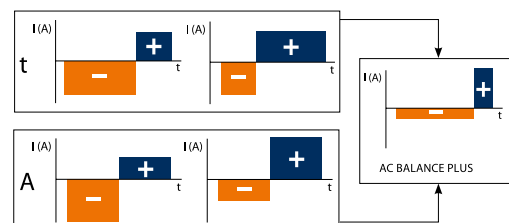
**SLOW PULSE**

### SLOW PULSE

Adjust separately current/time of peak and base

## BALANCE PLUS (MATRIX AC/DC)

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.



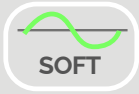
## WAVE SHAPES SPECIAL TIG AC FUNCTIONS (MATRIX AC/DC)



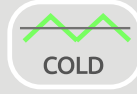
**DYNAMIC**  
Square wave: high arc dynamics for all applications



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



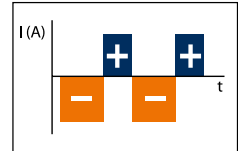
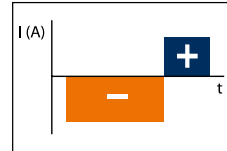
**SOFT**  
Sinusoidal wave: smoother and softer arc with a reduced noise, ideal for medium thickness



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

## FREQUENCY CONTROL IN AC (MATRIX AC/DC)

Frequency adjustment of the various AC wave shapes for better directional control, reduction of the thermally altered area, deeper penetration and electrode lower wearing out.  
High level frequency enables to weld very thin material with excellent results. Low frequency is ideal for medium thickness or whenever edge preparation is not accurate.



## MATRIX HF

TECHNICAL DATA		MATRIX 2200 HF		MATRIX 2600 HF		MATRIX 3000 / 3001 HF	
		TIG	MMA	TIG	MMA	TIG	MMA
Single phase input 50/60 Hz	V +/- 20%	230		-		-	
Three phase input 50/60 Hz	V +/- 20%	-		400		400	
Input Power @ I <sub>2</sub> Max	kVA	5,2	6,0	6,7	9,6	8,5	8,5
Delayed Fuse (I eff)	A	16	16	10	10	10	10
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
Efficiency Degree		0,84		0,86		0,87	
Open circuit voltage	V	85		85		85	
Current range	A	1 - 220	10 - 180	1 - 260	10 - 250	1 - 300	10 - 270
	A 100 %	160	120	200	190	210	200
Duty cycle at (40°C)	A 60 %	190	150	230	220	250	230
	A X %	220 (30%)	180 (30%)	260 (40%)	250 (40%)	300 (35%)	270 (35%)
Standards		EN 60974-1 • EN 60974-3 • EN 60974-10					
Protection Class	IP	23 S		23 S		23 S	
Dimensions (L x W x H)	mm	465 x 185 x 390		495 x 185 x 390		495 x 185 x 390	
Weight	Kg	14		17,5		17,5	

## MATRIX AC/DC

TECHNICAL DATA		MATRIX			
		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 @ I <sub>2</sub> 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	85		85	
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 60974-3 • EN 60974-10			
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	
Weight	Kg	15,5		19	

ORDER INFORMATION

CODE	DESCRIPTION	MATRIX 2200 HF		MATRIX 2600 HF		MATRIX 3000 HF		MATRIX 3001 HF	
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
POWER SOURCES									
004505	Power source <b>MATRIX 2200 HF</b> 230V	●	≈						
004527	Power source <b>MATRIX 2600 HF</b> 400V			●	≈				
004530	Power source <b>MATRIX 3000 HF</b> 400V					●	≈		
004532	Power source <b>MATRIX 3001 HF</b> 400V							●	≈
WELDING TORCHES									
020562	CEA Torch <b>TXA 26.4</b> 4 m - 250 A 60% (DC)	●	/	●	/	●	/	●	/
020662	CEA Torch <b>TXA 26.4 "UP/DOWN"</b> 4 m - 250 A 60% (DC)	/	/	/	/	/	/	/	/
020667	CEA Torch <b>Mini TXH 20.4</b> 4 m - 250 A 100% (DC) - water cooled	/	≈	/	≈	/	≈	/	≈
020677	CEA Torch <b>TXH 18.4 "UP/DOWN"</b> 4 m - 320 A 100% (DC) - water cooled	/	/	/	/	/	/	/	/
<i>For torches with 8 m long cable see tig accessories</i>									
2 WHEELS TROLLEYS									
234929	Trolley <b>VT 101</b> with 2 rolls for power source, cooling equipment and cylinder	●	≈	●	≈	●	≈	●	≈
234931	Trolley <b>CT 401</b> for power source, cooling equipment and cylinder								
WATER COOLING									
032065	Water cooling equipment <b>HR 22</b> 230 V	/	≈	/	/	/	/	/	/
032060	Water cooling equipment <b>HR 23</b> 400 V	/	/	/	≈	/	≈	/	≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tanks	/	≈	/	≈	/	≈	/	≈
GROUND CABLES									
239601	35 mm <sup>2</sup> / 4 m Ground cable with clamp	●	≈	●	≈	●	≈	●	≈
GAS REDUCERS									
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈	●	≈	●	≈
OTHER OPTION[S]									
236243	<b>CD 6/8</b> 8 m manual remote control								
020919	<b>PSR 7</b> 5 m foot remote control								
460056	Adapter for simultaneous connection of Torch and PSR 7								
460005	<b>A6</b> Connection kit for non-standard Torch								
Autotransformer 220V/400V-50/60Hz - 3 Phase									
Special Trolley for Gas Cylinder & Autotransformer									
MATRIX 2200 HF Suggested air cooled version with torch and VT 101									
MATRIX 2200 HF Suggested water cooled version with torch and VT 101									
MATRIX 2600 HF Suggested air cooled version with torch and VT 101									
MATRIX 2600 HF Suggested water cooled version with torch and VT 101									
MATRIX 3000 HF Suggested air cooled version with torch and VT 101									
MATRIX 3000 HF Suggested water cooled version with torch and VT 101									
MATRIX 3001 HF Suggested air cooled version with torch and VT 101									
MATRIX 3001 HF Suggested water cooled version with torch and VT 101									

(\*\*) On request

CODE	DESCRIPTION	MATRIX			
		2200 AC/DC		3000 AC/DC	
		AIR	WATER	AIR	WATER
POWER SOURCE					
004511	Power source <b>MATRIX 2200 AC/DC</b> 230V 1 Phase	●	≈		
004535	Power source <b>MATRIX 3000 AC/DC</b> 400V 3 Phase			●	≈
WELDING TORCHES					
020562	CEA Torch <b>TXA 26.4</b> 4 m 250 A 60% (DC)	●	/	●	/
020672	CEA Torch <b>TXH 18.4</b> 4 m 320 A 100% (DC) - water cooled	/	≈	/	≈
020677	CEA Torch <b>TXH 18.4 "UP/DOWN"</b> 4 m 320 A 100% (DC) - water cooled	/	/	/	/
020667	CEA Torch <b>Mini TXH 20.4</b> 4 m 220 A 100% (DC) - water cooled	/	≈	/	≈
<i>For torches with 8 m long cable see tig accessories</i>					
TROLLEYS					
234929	Trolley <b>VT 101</b> for power source, cooling equipment and cylinder	●	≈	●	≈
234931	Trolley <b>CT 401</b> for power source, cooling equipment and cylinder				
WATER COOLING					
032065	Water cooling equipment <b>HR 22</b> 230 V	/	≈	/	/
032060	Water cooling equipment <b>HR 23</b> 400 V	/	/	/	≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank	/	≈	/	≈
GROUND CABLES					
239601	<b>35</b> mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈	●	≈
GAS REDUCERS					
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈
OPTIONAL					
236243	<b>CD 6/8</b> 8 m remote control with geared down potentiometer				
020919	<b>PSR 7</b> 5 m foot remote control				
460056	Adapter for simultaneous connection of Torch and PSR 7				
460005	<b>A6</b> 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					





# 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

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

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



## coldTACK

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

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

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



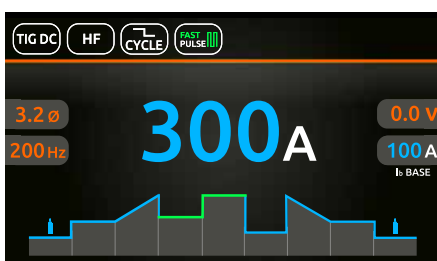
## X VISION CONTROL DISPLAY

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

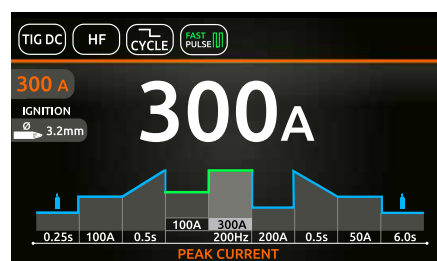
- User friendly interface
- Digital Ammeter and Voltmeter with welding current pre-setting and Hold Function of the last read value
- Welding mode "cycle"
- Personalised welding program storing and recalling
- Possibility of copying job/s easily from one machine to another via USB
- Advance setting infographic



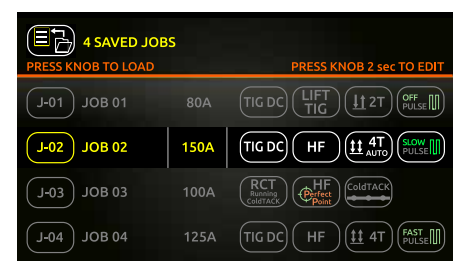
WELDING MODE



WELDING SETTING MODE



ADVANCE JOB MANAGEMENT



## PULSE MODE



### SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current



### FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz



### ULTRA FAST

Adjust frequency up to 2000 Hz



### SLOW PULSE

Adjust separately current/time of peak and base



## MMA FUNCTIONS

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

## CYCLE FUNCTION

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

TECHNICAL DATA		MATRIX X 220 HF		MATRIX X 300 HF		MATRIX X 400 HF	
		TIG	MMA	TIG	MMA	TIG	MMA
Single phase input 50/60 Hz	V +/- 20%	230		-		-	
Three phase input 50/60 Hz	V +/- 20%	-		400		400	
Input Power @ I <sub>2</sub> Max	kVA	5,2	6,0	8,5	8,5	16,2	19,4
Delayed Fuse (I <sub>eff</sub> )	A	16		10		20	
Power Factor / cos φ		0,99/0,99	0,99/0,99	0,96/0,99	0,95/0,99	0,74/0,99	0,84/0,99
Efficiency Degree		0,84		0,87		0,88	
Open circuit voltage	V	85		85		85	
Current range	A	1 - 220	10 - 180	1 - 300	10 - 270	1 - 400	10 - 400
Duty cycle at (40°C)	A 100 %	160	120	210	200	290	290
	A 60 %	190	150	250	230	340	340
	A X %	220 (30%)	180 (30%)	300 (35%)	270 (35%)	400 (35%)	400 (35%)
Standards		EN 60974-1 • EN 60974-3 • EN 60974-10					
Protection Class	IP	23 S		23 S		23 S	
Dimensions (L x W x H)	mm	530 x 215 x 410		530 x 215 x 410		530 x 215 x 410	
Weight	Kg	18		20		22	

ORDER INFORMATION

CODE	DESCRIPTION	MATRIX X					
		220 HF		300 HF		400 HF	
		AIR	WATER	AIR	WATER	AIR	WATER
POWER SOURCE							
004507	Power source <b>MATRIX X 220 HF</b> 230V 1 Phase X Vision control	●	≈				
004560	Power source <b>MATRIX X 300 HF</b> 400V 3 Phase X Vision control			●	≈		
004570	Power source <b>MATRIX X 400 HF</b> 400V 3 Phase X Vision control					●	≈
TIG TORCH							
020562	CEA Torch <b>TXA 26.4</b> 4 m - 250 A 60% (DC)	●		●		●	
020662	CEA Torch <b>TXA 26.4 "UP/DOWN"</b> 4 m - 250 A 60% (DC)						
020667	CEA Torch <b>Mini TXH 20.4</b> 4 m - 250 A 100% (DC) - water cooled		≈		≈		≈
020680	CEA Torch <b>Mini TXH 20.4 "UP/DOWN"</b> 4 m - 250 A 100% (DC) - water cooled						
020672	CEA Torch <b>TXH 18.4</b> 4 m - 320 A 100% (DC) - water cooled						
020677	CEA Torch <b>TXH 18.4 "UP/DOWN"</b> 4 m - 320 A 100% (DC) - water cooled						
TROLLEY							
234929	Trolley <b>VT 101</b> with 2 rolls for power source, cooling equipment and cylinder	●	≈	●	≈	●	≈
234931	Trolley <b>CT 401</b> with 4 rolls for power source, cooling equipment and cylinder						
WATER COOLING							
032120	Water cooling equipment <b>HRX 20</b> 230 V		≈				
032115	Water cooling equipment <b>HRX 30</b> 400 V				≈		
032135	Water cooling equipment <b>HRX 40</b> 400 V						≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈		≈
GROUND CABLES							
239601	35 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈	●	≈		
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp					●	≈
GAS REDUCERS							
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈	●	≈
OPTIONAL							
031118	<b>TSA1</b> TIG Simple Automation KIT - (Torch trigger - Arc On/Off)						
353485	<b>DFX1</b> Dust Filter for MATRIX X						
236243	<b>CD 6/8</b> 8 m remote control with geared down potentiometer						
020919	<b>PSR 7</b> 5 m foot remote control						
460056	Adapter for simultaneous connection of Torch and PSR 7						
460005	<b>A6</b> Connection kit for non-standard Torch						
	MATRIX X 220 HF Suggested air cooled version with torch	●					
	MATRIX X 220 HF Suggested water cooled version with torch		≈				
	MATRIX X 300 HF Suggested air cooled version with torch			●			
	MATRIX X 300 HF Suggested water cooled version with torch				≈		
	MATRIX X 400 HF Suggested air cooled version with torch					●	
	MATRIX X 400 HF Suggested water cooled version with torch						≈



VT 101 trolley for lodging gas cylinder and water cooling equipment



CT 401 trolley for lodging gas cylinder and water cooling equipment



PSR 7 5 m foot remote control



CD6/8 8m remote control with geared down potentiometer



# MATRIX X AC/DC

THE ULTIMATE SOLUTION FOR AC/DC TIG



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

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

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

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

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



- X Vision interface
- Excellent welding performance
- Fast arc control



# MATRIX X AC/DC FEATURES

- TIG DC minimum current from 1A and TIG AC starting from 3A
- Excellent welding characteristics in TIG with all 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

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

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



## coldTACK

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

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

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



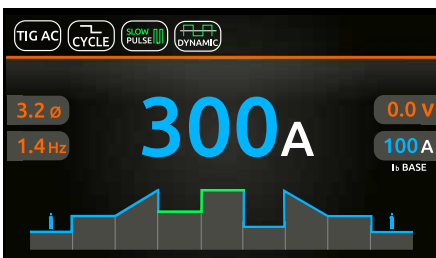
# X VISION CONTROL DISPLAY

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

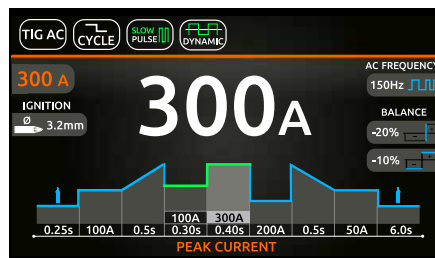
- User friendly interface
- Digital Ammeter and Voltmeter with welding current pre-setting and Hold Function of the last read value
- Welding mode "cycle"
- Personalized welding program storing and recalling
- Possibility of copying job/s easily from one machine to another via USB
- Advanced setting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



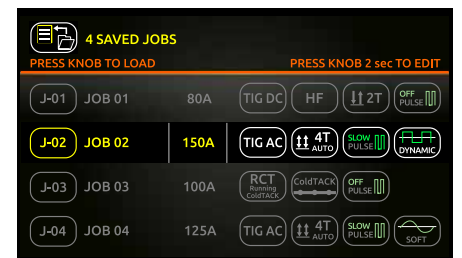
## WELDING MODE



## WELDING SETTING MODE



## ADVANCED JOB MANAGEMENT



## PULSE DC MODE



### SYN PULSE

SYN PULSE will synergically generate pulse frequency and base current



### ULTRA FAST

**HIGH PULSE FREQUENCY IN DC**  
Adjust frequency up to 2000 Hz



### FAST PULSE

Adjust frequency from 0,5 Hz to 500 Hz

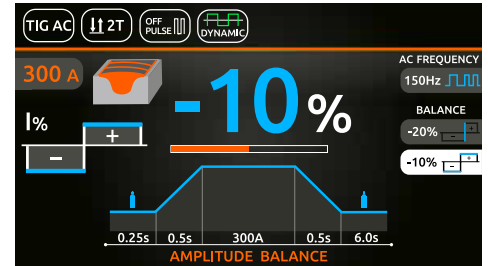
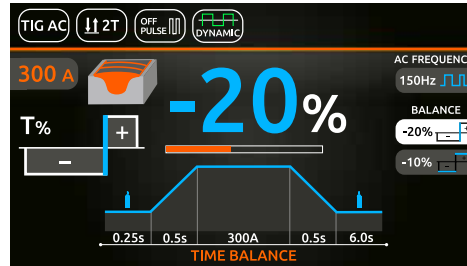


### SLOW PULSE

Adjust separately current/time of peak and base

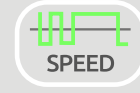
## BALANCE PLUS

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.



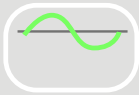
### DYNAMIC

Square wave: high arc dynamics for all applications



### 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

TECHNICAL DATA		MATRIX X							
		220 AC/DC		300 AC/DC		400 AC/DC		500 AC/DC	
		TIG	MMA	TIG	MMA	TIG	MMA	TIG	MMA
Single phase input 50/60 Hz	V +/- 20%	230		-		-		-	
Three phase input 50/60 Hz	V +/- 20%	-		400		400		400	
Input Power @ I <sub>2</sub> Max	kVA	5,6	6,2	9,0	9,6	19,0	24,7	26,0	31,0
Delayed Fuse (I <sub>eff</sub> )	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		0,86		0,87	
Open circuit voltage	V	85		85		85		85	
Current range	A	1 - 220	10 - 180	1 - 300	10 - 250	1 - 400	10 - 400	1 - 500	10 - 500
Duty cycle at (40°C)	A 100 %	140	120	210	190	350	350	400	400
	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							
Protection Class	IP	23 S		23 S		23 S		23 S	
Dimensions (L x W x H)	mm	530 x 215 x 410		530 x 215 x 410		710 x 290 x 530		710 x 290 x 530	
Weight	Kg	20		21,5		53		54	

ORDER INFORMATION

CODE	DESCRIPTION	MATRIX X							
		220 AC/DC		300 AC/DC		400 AC/DC		500 AC/DC	
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
POWER SOURCE									
004512	Power source <b>MATRIX X 220 AC/DC</b> 230V 1 Phase X Vision control	●	≈						
004565	Power source <b>MATRIX X 300 AC/DC</b> 400V 3 Phase X Vision control			●	≈				
004093	Power source <b>MATRIX X 400 AC/DC</b> 400V 3 Phase X Vision control					●	≈		
004097	Power source <b>MATRIX X 500 AC/DC</b> 400V 3 Phase X Vision control							●	≈
TIG TORCHES									
020562	CEA Torch <b>TXA 26.4</b> 4 m - 250 A 60% (DC)	●		●		●		●	
020662	CEA Torch <b>TXA 26.4 "UP/DOWN"</b> 4 m - 250 A 60% (DC)								
020667	CEA Torch <b>Mini TXH 20.4</b> 4 m - 250 A 100% (DC) - water cooled		≈						
020680	CEA Torch <b>Mini TXH 20.4 "UP/DOWN"</b> 4 m - 250 A 100% (DC) - water cooled								
020672	CEA Torch <b>TXH 18.4</b> 4 m - 320 A 100% (DC) - water cooled				≈		≈		≈
020677	CEA Torch <b>TXH 18.4 "UP/DOWN"</b> 4 m - 320 A 100% (DC) - water cooled								
<i>For torches with 8 m long cable see tig accessories</i>									
TROLLEYS									
234929	Trolley <b>VT 101</b> for power source, cooling equipment and cylinder	●	≈	●	≈				
234931	Trolley <b>CT 401</b> for power source, cooling equipment and cylinder								
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment and cylinder					●	≈	●	≈
234932	Trolley <b>PRIME CT 80</b> with 4 rolls for power source, cooling equipment and cylinder								
031008	<b>WK 3</b> extra-large wheels kit for power sources (without gas bottle)								
WATER COOLING									
032120	Water cooling equipment <b>HRX 20</b> 230 V		≈						
032115	Water cooling equipment <b>HRX 30</b> 400 V				≈				
032130	Water cooling equipment <b>HRX 52</b> 400 V						≈		≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈		≈		≈
GROUND CABLES									
239601	<b>35 mm² / 4 m Ground cable</b> with clamp	●	≈	●	≈				
239607	<b>70 mm² / 4 m Ground cable</b> with clamp					●	≈	●	≈
GAS REDUCERS									
020916	Reducer with flowmeter and 1 manometer	●	≈	●	≈	●	≈	●	≈
OPTIONAL									
031118	<b>TSA1</b> - TIG Simple Automation KIT - (Torch trigger - Arc On/Off)								
031119	<b>TSA5</b> - TIG Simple Automation KIT - (Torch trigger - Arc On/Off)								
353485	<b>DFX1</b> - Dust Filter for MATRIX X 220 / X 300								
353486	<b>DFX5</b> - Dust Filter for MATRIX X 400 / X 500								
236243	<b>CD 6/8</b> 8 m remote control with geared down potentiometer								
020919	<b>PSR 7</b> 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 water cooled version with torch		≈						
MATRIX X 300 AC/DC	Suggested air cooled version with torch			●					
MATRIX X 300 AC/DC	Suggested water cooled version with torch				≈				
MATRIX X 400 AC/DC	Suggested air cooled version with torch					●			
MATRIX X 400 AC/DC	Suggested water cooled version with torch						≈		
MATRIX X 500 AC/DC	Suggested air cooled version with torch							●	
MATRIX X 500 AC/DC	Suggested water cooled version with torch								≈



**VT 101** trolley for lodging gas cylinder and water cooling equipment



**CT 401** trolley for lodging gas cylinder and water cooling equipment



**CT 70** trolley for lodging gas cylinder and water cooling equipment





# MMA

78 ROCK

80 MATRIX E



# ROCK

## INVERTER POWER SOURCES FOR ELECTRODE WELDING



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

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

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

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

**ROCK 210 PRO** is equipped with VRD and it is suitable to weld cellulosic electrodes.



- 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 is equipped with VRD and it is suitable to weld cellulosic electrodes.
- 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 PRO
Single phase input 50/60 Hz	V +10% -10%	230	230	230
Input Power @ I <sub>2</sub> Max	kVA	8,2	10,4	10,6
Delayed Fuse (I eff)	A	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
Duty cycle at (40°C)	A 100 %	95	105	110
	A 60 %	105	110	145
	A X %	160 (20%)	200 (10%)	200 (30%)
Standards		EN 60974-1 - EN 60974-10 -		
Protection Class	IP	23 S	23 S	23 S
Dimensions (L x W x H)	mm	315 x 135 x 260	315 x 135 x 260	355 x 135 x 260
Weight	Kg	4,3	4,6	6,1



## ORDER INFORMATION

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

**MATRIX E** power sources, 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				
		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 @ I <sub>2</sub> max	kVA	5,7	8,0	10,5	12,4	19,4
Delayed Fuse (@ I <sub>2</sub> 100%)	A	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	100		100	100
Current Range	A	5 - 180	5 - 220	5 - 270	5 - 300	5 - 420
Duty cycle at (40°C)	A 100%	120	150	180	220	270
	A 60%	150	180	220	250	340
	A X%	180 (30%)	220 (30%)	270 (30%)	300 (35%)	420 (40%)
Dimensions (L x W x H)	mm	430 x 185 x 390	465 x 185 x 390		465 x 185 x 390	500 x 220 x 425
Weight	kg	12	16,5		15	20

## CONTROL DISPLAY

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



## ORDER INFORMATION

CODE	DESCRIPTION		MATRIX 2200 E	MATRIX 2700 E SV	MATRIX 3000 E	MATRIX 4200 E
<b>POWER SOURCES</b>						
004500	<b>MATRIX 2200 E</b>	230 V - 1 Ph with digital Ammeter / Voltmeter	●			
004525	<b>MATRIX 2700 E SV</b>	230 / 400 V - 3 Ph with digital V/A meter TO BE DISCONTINUED		●		
004515	<b>MATRIX 3000 E</b>	400 V - 3 Ph with digital V/A meter			●	
004548	<b>MATRIX 4200 E</b>	400 V - 3 Ph with digital Ammeter / Voltmeter				●
<b>ACCESSORY KITS</b>						
460286	4+3 m 25 mm <sup>2</sup>	cables with electrodeholder pincer, ground clamp and 50 mm <sup>2</sup> safety connections - brush/hammer - shield with lens	●			
460292	4+3 m 35 mm <sup>2</sup>	cables with electrodeholder pincer, ground clamp and 50 mm <sup>2</sup> safety connections - brush/hammer - shield with lens		●	●	
460262	4+3 m 50 mm <sup>2</sup>	cables with electrodeholder pincer, ground clamp and 50 mm <sup>2</sup> safety connections - brush/hammer - shield with lens				●
<b>REMOTE CONTROLS</b>						
236243	<b>CD 6/8</b>	8 m manual remote control	●	●	●	●
236244	<b>CD 6/25</b>	25 m manual remote control	●	●	●	●
236249	<b>CD 6/50</b>	50 m manual remote control	●	●	●	●
<b>OTHER OPTION[S]</b>						
234912	Transport <b>Trolley CT 10</b>					●
031150	<b>Roll bar protection kit</b>					●
031100	<b>CB 2</b> carrying Belt Kit		●	●	●	
<b>TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE</b>						
020558	Torch <b>RTX 17.4</b>	4 m - 140 A 35%	●			
020568	Torch <b>RTX 26.4</b>	4 m - 180 A 35%	●	●	●	●



CD 6 remote control from 8 to 50 m



Roll bar protection (MATRIX 4200 E)

FANUC Robot CRX-10

20 YEARS ROBOTIC EXPERIENCE  
WELDING & ROBOTICS  
BEST SOLUTION DESIGN  
BEST SOLUTION MOUNTING  
BEST TIG DC SOLUTION  
BEST TIG AC/DC SOLUTION





# ROBOTICS & AUTOMATION

- 84 30 YEARS ROBOTIC EXPERIENCE
- 85 WELDING & ROBOTICS
- 86 ROBOT SOLUTION - DIGITEC
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- 90 ROBOT TIG DC SOLUTION
- 91 ROBOT TIG AC/DC SOLUTION

# 30 YEARS ROBOTIC EXPERIENCE



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

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

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

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

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



# WELDING & ROBOTICS

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

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



## RBS 15

Wire feeder to be fitted on both hollow wrist robots and traditional ones with external device. Compact and light (only 6.2 kg) RBS 15 represents the ideal solution for any robotized application, being equipped with a 4 roll feeding mechanism, easily accessible also for roll replacements without any tooling, and having a double solenoid valve for gas and air.



## RI-D

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



## RI-A 1

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



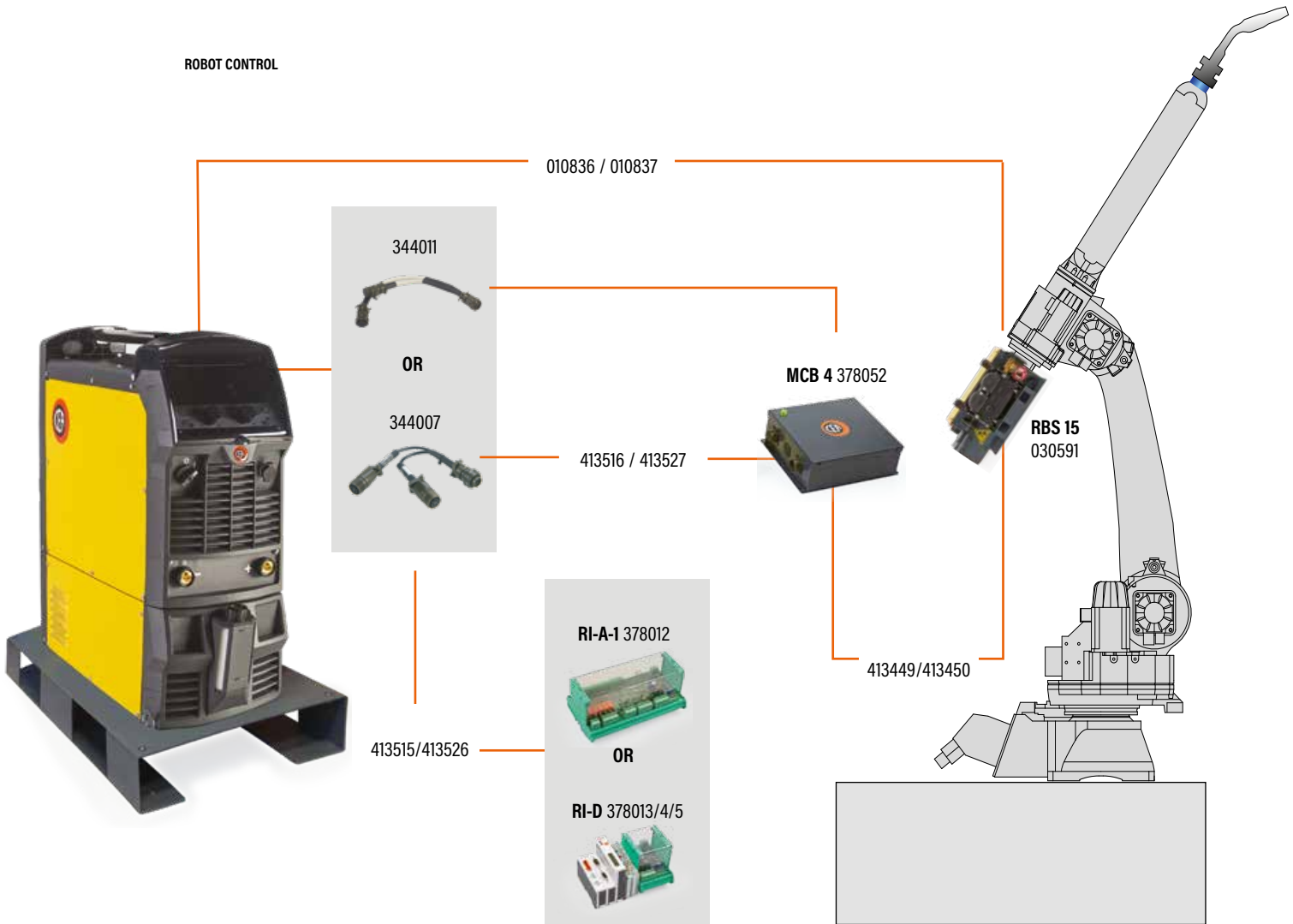
## MCB4

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



# ROBOT SOLUTION - DIGITECH

ROBOT CONTROL



031165 - SB1



344011



344007



032125 HRX 51

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



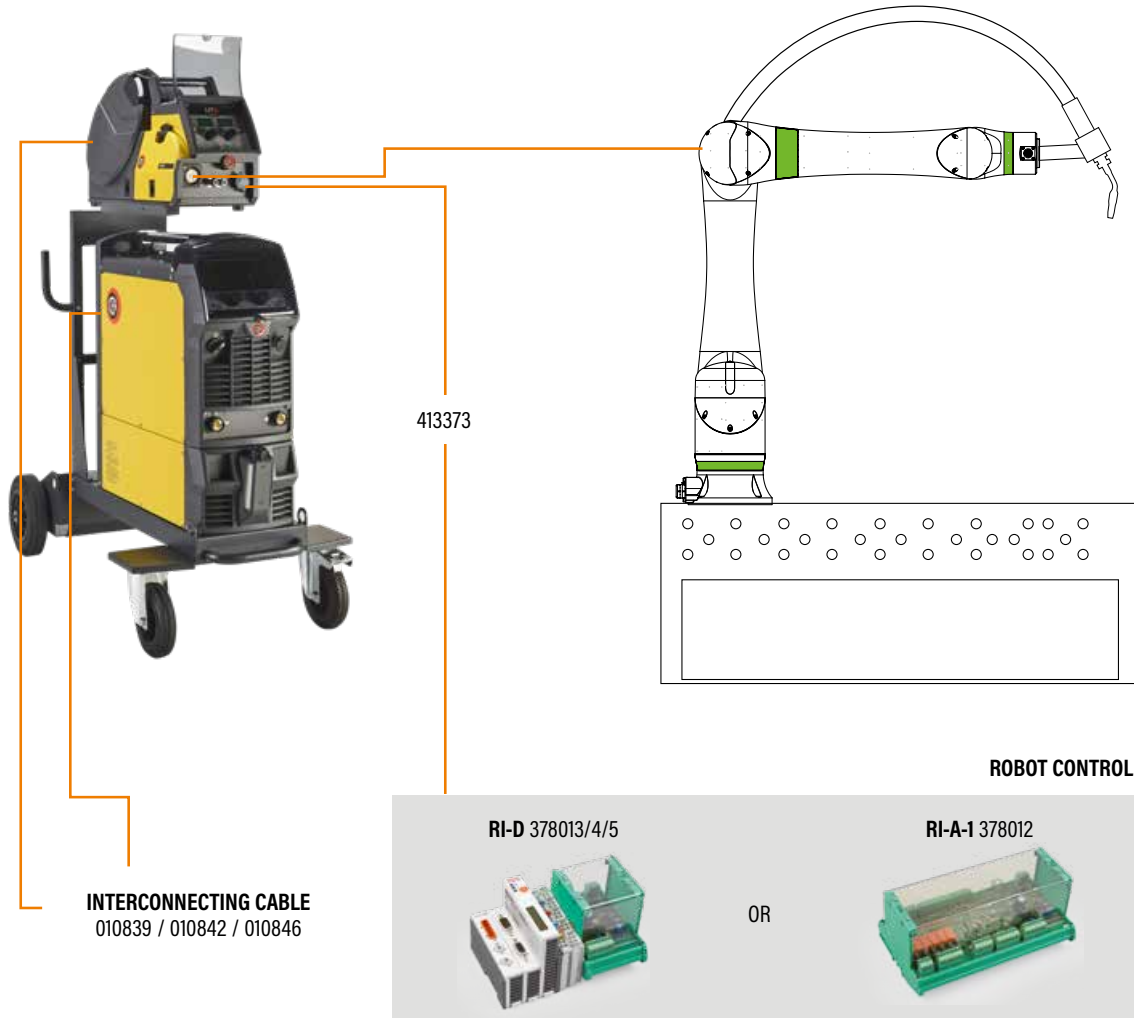
## ORDER INFORMATION

CODE	DESCRIPTION	DIGITECH 4003 VP3	DIGITECH 5003 VP3
	<b>POWER SOURCES</b>		
004708	Power Source <b>DIGITECH 4003 VP3</b> 400 V	≈	
004713	Power Source <b>DIGITECH 5003 VP3</b> 400 V		≈
	<b>SPECIAL VERSIONS - POWER SOURCE FITTED WITH SOFTWARE</b>		
004708PR	Power source <b>DIGITECH 4003 VP3 PREMIUM</b> 400 V with vision.FULL PACKAGE and Ethernet socket		
004713PR	Power source <b>DIGITECH 5003 VP3 PREMIUM</b> 400 V with vision.FULL PACKAGE and Ethernet socket		
	<b>SOFTWARE FOR SPECIAL MIG/MAG PROCESS</b>		
050002	<b>SM1 - SPECIAL MIG</b> Process Package including: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP - Extra Curves Package		
050003	<b>SP2 - PERFORMANCE</b> Process Package including: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP - Extra Curves Package		
050004	<b>SFP - vision.FULL</b> - PACKAGE complete with SM1 and SP2		
050050	<b>ECP</b> -Extra Curves Package to meet special application		
	<b>INTERCONNECTING CABLES</b>		
010836	5 m Air / Water cooled Interconnecting cable	≈	≈
010837	10 m Air / Water cooled Interconnecting cable		
	<b>WIRE FEEDER</b>		
030591	Robot Wire Feeder RBS 15 with Euro Connect. 4 rolls (Ø 1,0/1,2)	≈	≈
030593	Robot Wire Feeder RBS 15 with "L" Connect. 4 rolls (Ø 1,0/1,2)		
	<b>ROBOT INTERFACE</b>		
378012	Robot Interface <b>RI-A 1</b> Analogic/Digital	Analogic	Analogic
378013	Robot Interface <b>RI-DD</b> DeviceNet	DeviceNet	DeviceNet
378014	Robot Interface <b>RI-DE</b> EtherNet/IP	EtherNet/IP	EtherNet/IP
378015	Robot Interface <b>RI-DP</b> ProfiNet	ProfilNet	ProfilNet
	<b>ROBOTICS PACKAGE</b>		
378052	<b>MCB 4</b> - Motor Control Box	≈	≈
	<b>INTERCONNECTING CABLES KIT AND CONNECTOR KIT</b>		
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		
413527	2 m Interconnecting cable Power source - MCB 4		
413516	10 m Interconnecting cable Power source - MCB 4		
	<b>WATER COOLING</b>		
032125	Water cooling equipment <b>HRX 51</b> 400 V	≈	≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank	≈	≈
	<b>GROUND CABLES</b>		
239607	70 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	≈	≈
	<b>TROLLEY AND SUPPORT BASE</b>		
031165	Support Base <b>SB 1</b> for Power source		
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)		
	<b>OTHER OPTION[S]</b>		
020340	Autotransformer <b>A 13-H</b> 220/400 V 50/60 Hz 3 Phase		
030947	Aluminium Kit of double grooved TWIN rolls (Ø 1,0/1,2) and gears kit for Al wires		
030949	Aluminium Kit of double grooved TWIN rolls (Ø 1.2/1,6) and gears kit for Al wires		
	DIGITECH 4003 VP3 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version	EtherNet/IP	
	DIGITECH 5003 VP3 ETHERNET/IP Interface COMPLETE PACKAGE Suggested version		EtherNet/IP



# COBOT SOLUTION

SEPARATED WIRE FEEDER



ORDER INFORMATION

DESCRIPTION		DIGITECH 4003 VP3	DIGITECH 5003 VP3
POWER SOURCES			
004708	Power Source <b>DIGITECH 4003 VP3</b> 400 V	≈	
004713	Power Source <b>DIGITECH 5003 VP3</b> 400 V		≈
SPECIAL VERSIONS - POWER SOURCE FITTED WITH SOFTWARE			
004708PR	Power source <b>DIGITECH 4003 VP3 PREMIUM</b> 400 V with vision.FULL PACKAGE and Ethernet socket		
004713PR	Power source <b>DIGITECH 5003 VP3 PREMIUM</b> 400 V with vision.FULL PACKAGE and Ethernet socket		
SOFTWARE FOR SPECIAL MIG/MAG PROCESS			
050002	<b>SM1 - SPECIAL MIG</b> Process Package including: vision.COLD, vision.POWER, vision.ULTRASPEED, vision.PIPE and ECP - Extra Curves Package		
050003	<b>SP2 - PERFORMANCE</b> Process Package including: vision.PULSE-UP, vision.PULSE-RUN, vision.ULTRASPEED and ECP - Extra Curves Package		
050004	<b>SFP - vision.FULL</b> - PACKAGE complete with Special MIG Process Pack. (SM1) and Special PULSE Process: vision.PULSE-UP, vision.PULSE-RUN and vision.PULSE-POWER with extra curves ECP		
050050	<b>ECP</b> -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 <b>HT 6 PRO DRIVE</b> with Euro Connection 4 rolls (Ø 1,0/1,2)	≈	≈
031116	<b>WK 4</b> standard wheels kit for HT 6 PRO DRIVE feeder		
031007	<b>WK 2</b> extra-large wheels kit for HT 6 PRO DRIVE feeder		
WATER COOLING			
032125	Water cooling equipment <b>HRX 51</b> 400 V	≈	≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank	≈	≈
ROBOTICS PACKAGE			
378012	Robot Interface <b>RI-A 1</b> Analog/Digital	Analog	Analog
On demand	Robot Interface <b>RI-DM</b> Modbus	Modbus	Modbus
378013	Robot Interface <b>RI-DD</b> DeviceNet	DeviceNet	DeviceNet
378014	Robot Interface <b>RI-DE</b> EtherNet/IP	EtherNet	EtherNet
378015	Robot Interface <b>RI-DP</b> ProfiNet	ProfiNet	ProfiNet
413373	2 m Interconnecting cable Power source - Robot Interface	≈	≈
GROUND CABLES			
239607	70 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	≈	≈
TROLLEY AND SUPPORT BASE			
031165	Support Base <b>SB 1</b> for Power source		
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment and cylinder (and autotransformer)	≈	≈
OTHER OPTION[S]			
020340	Autotransformer <b>A 13-H</b> 220/400 V 50/60 Hz 3 Phase		
030895	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 0,8/1,2) and gears kit for Al wires		
030897	<b>Aluminium Kit</b> of double grooved TWIN rolls (Ø 1,0/1,2) and gears kit for Al wires		
030899	<b>Aluminium Kit</b> 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

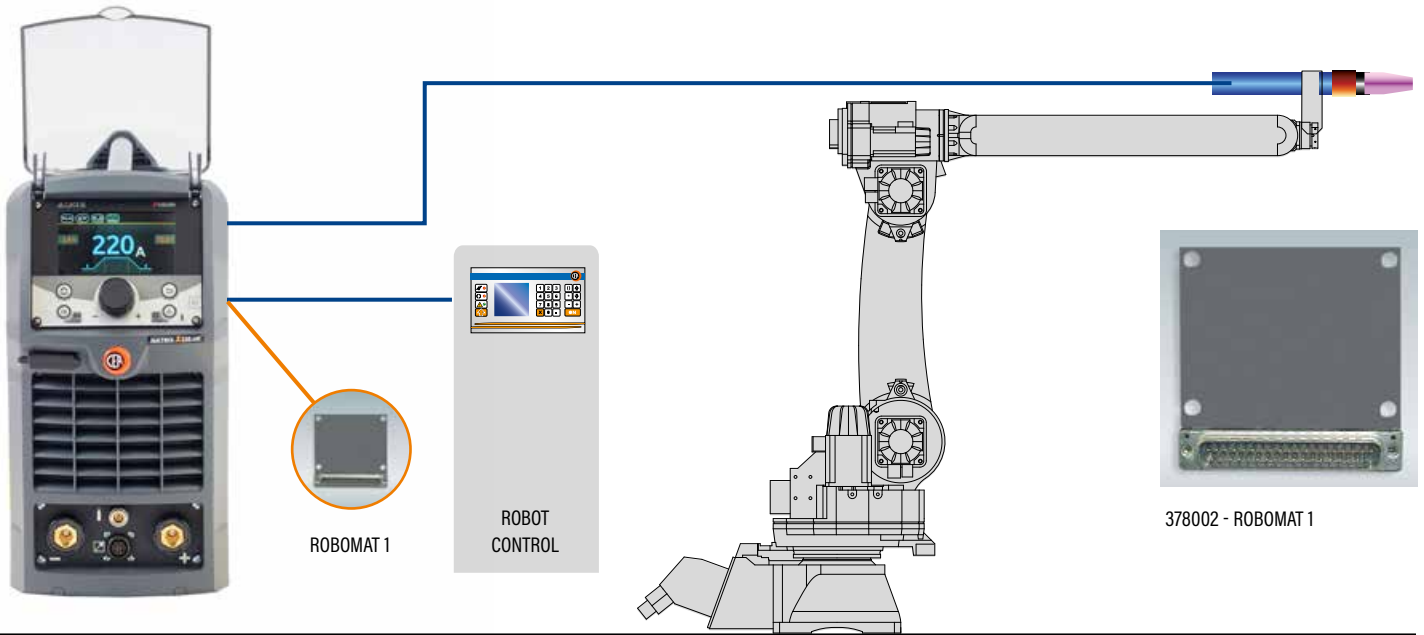
(\*\*) On request

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



# ROBOT TIG DC SOLUTION

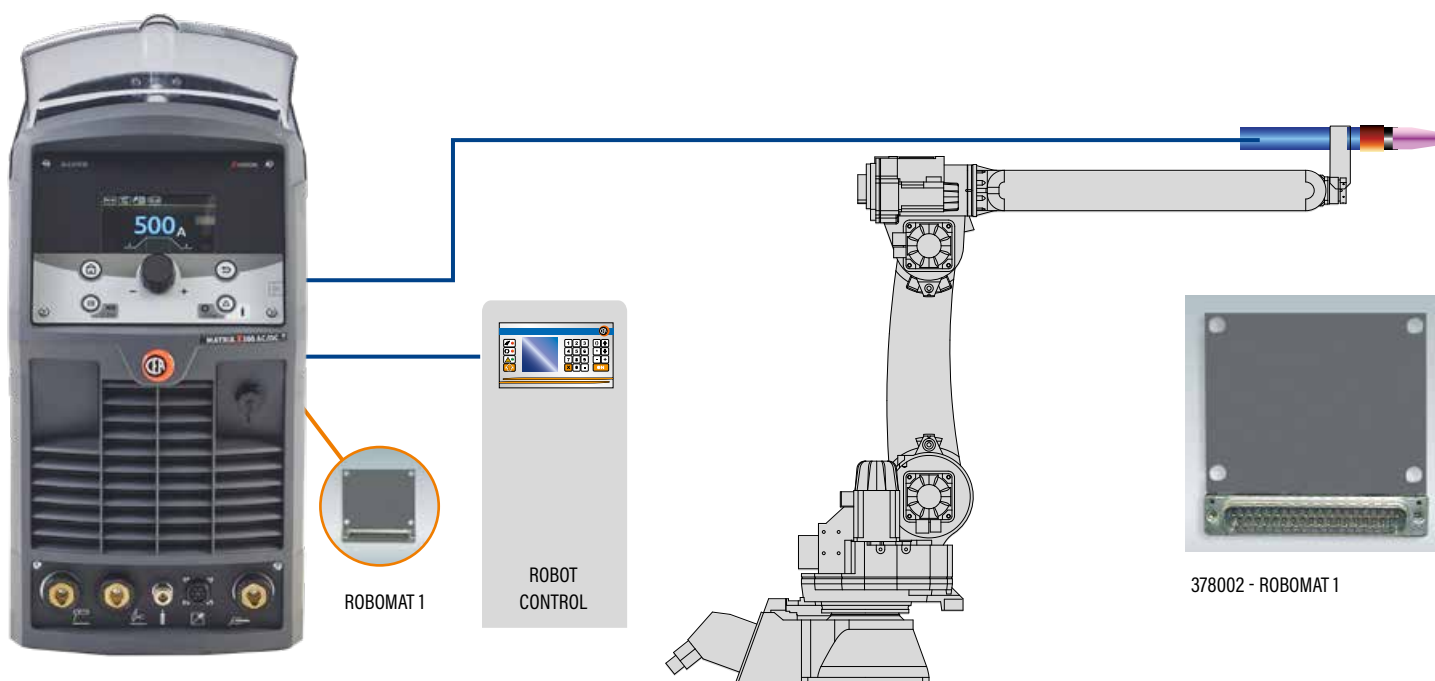
MATRIX series three-phase power sources, in the special "R" version, can be easily integrated in TIG welding automated equipment by means of ROBOMAT 1 interface which handles both the start/stop signals of the process and main welding parameter adjustments.



## ORDER INFORMATION

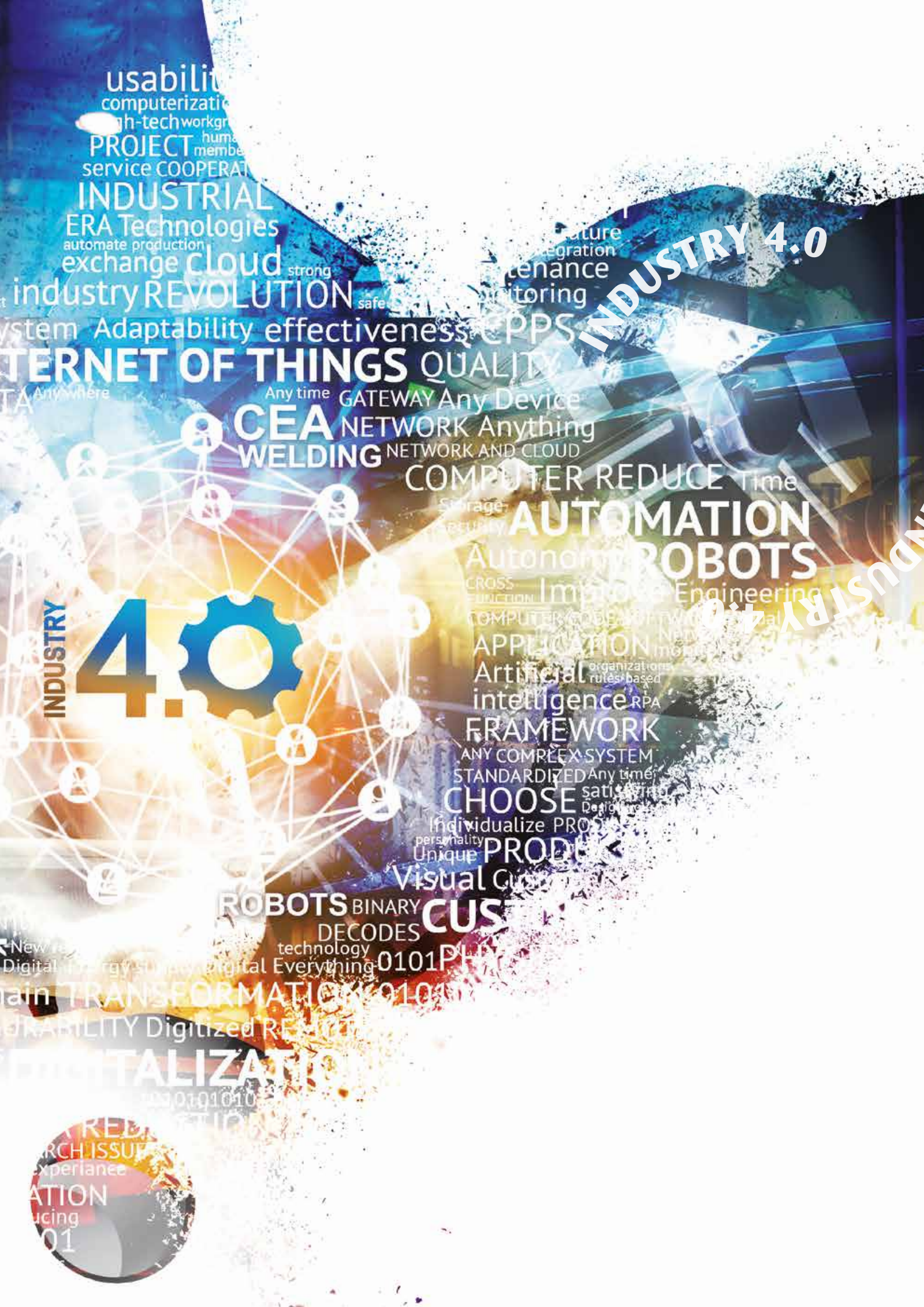
CODE	DESCRIPTION	MATRIX 3000 HF-R		MATRIX X 220 HF-R		MATRIX X 300 HF-R		MATRIX X 400 HF-R	
		AIR	WATER	AIR	WATER	AIR	WATER	AIR	WATER
POWER SOURCES - DC									
004531	Power source <b>MATRIX 3000 HF-R</b> 400 V - 3 Phase	●	≈						
004508	Power source <b>MATRIX X 220 HF-R</b> 400 V - 1 Phase X vision control			●	≈				
004561	Power source <b>MATRIX X 300 HF-R</b> 400 V - 3 Phase X vision control					●	≈		
004571	Power source <b>MATRIX X 400 HF-R</b> 400 V - 3 Phase X vision control							●	≈
WATER COOLING									
032060	Water cooling equipment <b>HR 23</b> 400 V to be only ordered with related "VT" trolley		≈						
032120	Water cooling equipment <b>HRX 20</b> 230 V				≈				
032115	Water cooling equipment <b>HRX 30</b> 400 V						≈		
032135	Water cooling equipment <b>HRX 40</b> 400 V								≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈		≈		≈
ROBOTICS PACKAGES									
413508	<b>5 m Interconnecting cable</b> ROBOMAT 1 / automatic equipment	●	≈	●	≈	●	≈	●	≈
378002	Robot Interface <b>ROBOMAT 1</b>	●	≈	●	≈	●	≈	●	≈
GROUND CABLES									
239601	<b>35 mm<sup>2</sup> / 4 m Ground cable</b> with clamp	●	≈	●	≈	●	≈		
239603	<b>50 mm<sup>2</sup> / 4 m Ground cable</b> with clamp							●	≈
TROLLEYS									
234929	Trolley <b>VT 101</b> with 2 rolls for power source, cooling equipment and cylinder	●	≈	●	≈	●	≈	●	≈
234931	Trolley <b>CT 401</b> with 4 rolls for power source, cooling equipment and cylinder								
OTHER OPTION									
460005	<b>A6 Connection kit</b> 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 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						≈		
	MATRIX X 400 HF-R robot use complete package Suggested air cooled version							●	
	MATRIX X 400 HF-R robot use complete package Suggested water cooled version								≈

# ROBOT TIG AC/DC SOLUTION



## ORDER INFORMATION

CODE	DESCRIPTION	MATRIX 3000 AC/DC-R		MATRIX X 220 AC/DC-R		MATRIX X 300 AC/DC-R		MATRIX X 400 AC/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 <b>MATRIX 3000 AC/DC-R</b> 400 V 3 Phase	●	≈								
004513	Power source <b>MATRIX X 220 AC/DC-R</b> 230 V 1 Phase X vision control			●	≈						
004566	Power source <b>MATRIX X 300 AC/DC-R</b> 400 V 3 Phase X vision control					●	≈				
004094	Power source <b>MATRIX X 400 AC/DC-R</b> 400 V 3 Phase X vision control							●	≈		
004098	Power source <b>MATRIX X 500 AC/DC-R</b> 400 V 3 Phase X vision control									●	≈
WATER COOLING											
032060	Water cooling equipment <b>HR 23</b> 400V ordered with "VT" trolley		≈								
032120	Water cooling equipment <b>HRX 20</b> 230 V				≈						
032115	Water cooling equipment <b>HRX 30</b> 400 V						≈				
032130	Water cooling equipment <b>HRX 52</b> 400V ordered with "CT" trolley								≈		≈
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank		≈		≈		≈		≈		≈
ROBOTICS PACKAGES											
413508	5 m Interconnecting cable ROBOTAT 1 / automatic equipment	●	≈	●	≈	●	≈	●	≈	●	≈
378002	Robot Interface <b>ROBOTAT 1</b>	●	≈	●	≈	●	≈	●	≈	●	≈
GROUND CABLES											
239601	35 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp	●	≈	●	≈	●	≈				
239603	50 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp							●	≈		
239607	70 mm <sup>2</sup> / 4 m <b>Ground cable</b> with clamp									●	≈
TROLLEYS											
234929	Trolley <b>VT 101</b> with 2 rolls for power source, cooling equipment and cylinder	●	≈	●	≈	●	≈				
234931	Trolley <b>CT 401</b> with 4 rolls for power source, cooling equipment and cylinder										
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment and cylinder							●	≈	●	≈
234932	Trolley <b>PRIME CT 80</b> with 4 rolls for power source, cooling equipment and cylinder									●	≈
OTHER OPTION											
460005	<b>A6</b> 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										≈



usability

computerization

high-tech workgroup

PROJECT

service COOPERATION

INDUSTRIAL

ERA Technologies

automate production

exchange cloud

industry REVOLUTION

system Adaptability effectiveness CPPS

TA Anywhere Any time GATEWAY Any Device

CEA NETWORK Anything

WELDING NETWORK AND CLOUD

COMPUTER REDUCE Time

Autonomous ROBOTS

Improve Engineering

APPLICATION

Artificial intelligence

FRAMEWORK

ANY COMPLEX SYSTEM

STANDARDIZED Any time

CHOOSE

Individualize PRO

Unique PRODU

Visual Quality

ROBOTS BINARY

DECODES

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PHYSICAL

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TRANSFORMATION

AVAILABILITY Digitized RE

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RESEARCH ISSUE

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INDUSTRY 4.0

INDUSTRY 4.0

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# INDUSTRY 4.0

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

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

- Interconnectivity between equipment in the production cycle.
- Continuous monitoring of work conditions by means of appropriate set of sensors and adaptive capacity versus any process drift.
- Equipment remote control, maintenance and diagnosis.
- Machines viewed as networked objects (IOT Internet of things).

## CEA EQUIPMENT FOR INDUSTRY 4.0

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

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





# CWS CEA WELDING SUPERVISOR

## THE SOLUTION FOR INDUSTRY 4.0

**CWS CEA WELDING SUPERVISOR** software has been developed by CEA to enable welding data recording, monitoring and printing by means of an external browser connected to one or more power sources of **DIGITECH** series.

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

**CEA WELDING SUPERVISOR** 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 WELDING SUPERVISOR** 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/WIFI connection and the welding data recording program is ready to operate.

**CEA WELDING SUPERVISOR** allows you to load a preset JOB into the generator when used with a barcode reader. This can also be used in combination with the generator lock function to best meet any specific welding quality control procedure (WPS).



WELDER PAGE



WELDING DATA RECORD



LOG REPORT

REPORT LOG

Report ID	Report start time	Report duration	RUN counter	Report result
5	11:05:23 2026/02/18	00:00:14	1	Success
4	11:04:40 2026/02/18	00:00:11	1	Success
3	11:03:43 2026/02/18	00:00:24	1	Failure
2	11:01:26 2026/02/18	00:00:51	1	Success
1	15:58:54 2026/02/17	00:45:04	4	Success

RUN LOG

13.4 m/min 258 A 31.4 v

0 A 0.0 v

SYN MIG/MAG PROGRAM 0012

COST REPORT ANALYSIS

COST

Electricity cost:	0,35	€/ kW
Wire cost:	1,80	€/ kg
Welder cost:	38,00	€/ hour
Gas cost:	4,40	€/ m³
Gas flow:	15,00	l/min



### WEB-BASED

It can be accessed via a web browser, allowing you to monitor and manage the system easily and immediately from any authorized device.



### ACCESS THE ERROR LOG PAGE

Access the error log page at any time to identify issues, reduce downtime, and improve maintenance efficiency.



### FIX CURRENT AND VOLTAGE LIMITS

Set and fix current and voltage limits to ensure consistent weld quality, prevent errors, and protect both the process and the equipment.



### CALCULATE THE COSTS OF THE WELDING PROCESS

Calculate the real cost of the welding process by analyzing energy consumption, time, and process parameters.



### READ LIVE WELDING DATA

Read live welding data directly from the machine to monitor performance, detect deviations instantly, and improve production control.



### SELECT JOBS FROM REMOTE

Select and manage welding jobs remotely, ensuring operators always use the correct parameters without manual intervention.



### CREATE QUALITY REPORTS IN PDF

Automatically generate detailed quality reports containing all relevant welding parameters for audits, certifications, and documentation.



### READY FOR 4.0 INDUSTRY

Connect to LAN (MES) using MODBUS-TCP or OPCUA protocols for secure, standardized data exchange.



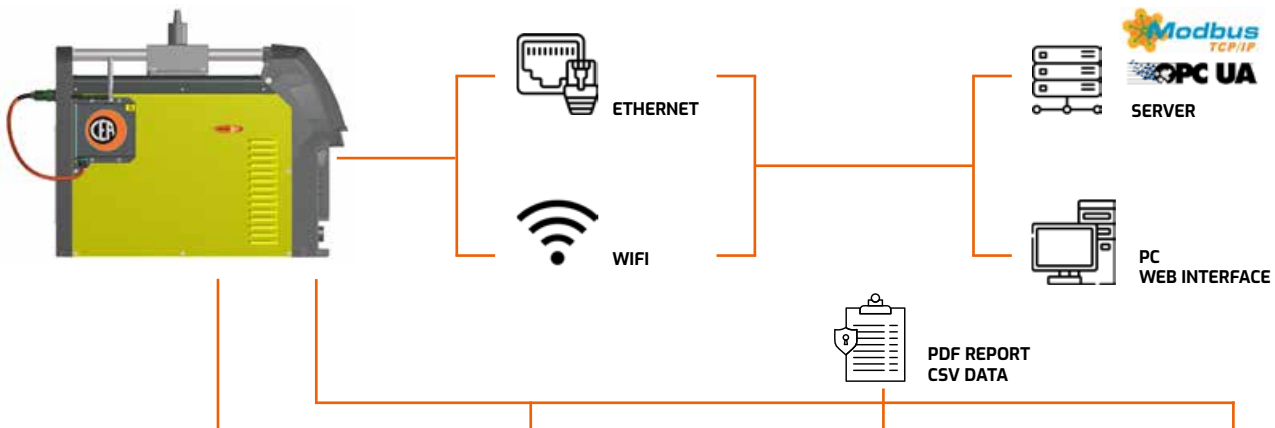
### EXPORT WELDING DATA IN EXCEL

Export welding data in Excel format for fast analysis, reporting, and seamless integration with your existing workflows.



### BAR CODE READER

Possibility of use with a barcode reader to increase the amount of information that can be recorded and automatically load the JOBS present on the generator.



### BAR CODE READER

START

JOB

OTHERS

STOP

### CWS CEA WELDING SUPERVISOR

**EQUIPMENT DATA**

Device name	Welding Device
Model	DIGITECH 500A V4
Version	M04-00-F23-01-08-C04-02-00-0004V4
Serial number	EXCE263
Fester 1 SW	YES-SE-01-F23-01-01
Fester 2 SW	

**GENERAL DETAILS**

Report ID	4	Report Date	2026/03/01 23:11:45
BARCODE 1		Number of runs	1
BARCODE 2		Number of valid runs	0
BARCODE 3		Duration	23 s
BARCODE 4			
BARCODE 5		Report result	Failed

**REPORT PERFORMANCE AND COST**

Average Current	30 A	Average Voltage	17.7 V
Average Power	1793 W	Consumed Energy	10 Wh
Energy Cost	0 €	Wire Consumption	28.8
Wire Weight	1.5g	Wire Cost	0 €
Gas Consumption	0.08 CF	Gas Cost	1 €
Welder Cost	0 €	Welding Cost	2 €

1 - CEA Welding

### CWS CEA WELDING SUPERVISOR

**Run 1**

**OVERVIEW**

Barcode		Start Run	2026/03/01 23:11:45	Duration	19 s
Energy Used	10 Wh	Average power	1793 W	Energy cost	0 €
Wire Used	28.8	Wire Weight	1.5g	Wire cost	7 €
Gas Used	0.08 CF	Gas Cost	1 €	Total cost	8 €
Max Current	137 A	Min Current	97 A	AVG Current	100 A
Max Voltage	20.40 V	Min Voltage	15.40 V	AVG Voltage	19.2 V
Welder errors	0	Run result	Errors		

**WELDING PARAMETERS**

Program	1548	Job ID (if no job)	0		
Material	T Ni-Cr13Mo16W4Cu20In1	Gas	Ar 99.9%		
Diapolver	0.096 in				
CURRENT Setpoint	140 A	VOL TAGE Setpoint	16.50 V	Wire Speed Setpoint	28 m/min
Arc length	0	Voltagance	0	Hot start	10
Phi Gas	0.10 s	Post Gas	1.00 s	Burnback	0

**LIMITS**

Limit selector	Absolute		
Total error timeout	15s	Consecutive error timeout	5s
Voltage limit UP	0 V	Voltage limit DOWN	0 V
Current limit UP	30 A	Current limit DOWN	120 A

2 - CEA Welding

### CWS CEA WELDING SUPERVISOR

**MEASURES**

Time	Report	Run	Current [A]	Voltage [V]	Wire Speed [mm/min]	Result
2026/03/01 23:11:25	4	1	137	19.4	1140.0	Failed
2026/03/01 23:11:26	4	1	127	19.4	1140.0	Failed
2026/03/01 23:11:26	4	1	113	20.0	1140.0	Failed
2026/03/01 23:11:27	4	1	113	20.0	1140.0	Failed
2026/03/01 23:11:28	4	1	104	20.3	1140.0	Failed
2026/03/01 23:11:28	4	1	101	20.4	1140.0	Failed
2026/03/01 23:11:29	4	1	101	20.4	1140.0	Failed
2026/03/01 23:11:29	4	1	100	20.4	1140.0	Failed
2026/03/01 23:11:30	4	1	100	20.4	1140.0	Failed
2026/03/01 23:11:30	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:31	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:31	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:32	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:32	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:33	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:33	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:34	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:34	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:35	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:35	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:36	4	1	99	20.4	1140.0	Failed
2026/03/01 23:11:36	4	1	99	20.3	1140.0	Failed
2026/03/01 23:11:37	4	1	99	20.3	1140.0	Failed
2026/03/01 23:11:38	4	1	99	20.3	1140.0	Failed
2026/03/01 23:11:38	4	1	99	20.3	1140.0	Failed
2026/03/01 23:11:39	4	1	98	20.3	1140.0	Failed
2026/03/01 23:11:39	4	1	98	20.3	1140.0	Failed
2026/03/01 23:11:40	4	1	98	20.3	1140.0	Failed
2026/03/01 23:11:40	4	1	98	20.3	1140.0	Failed

3 - CEA Welding



## CWS - ETHERNET



CWS BOX KIT  
(ETHERNET)

+



BAR CODE  
READER

+



CWS SOFTWARE  
LICENSE

CODE

DESCRIPTION

CEA WELDING SUPERVISOR - ETHERNET LAN KIT

**CEA WELDING SUPERVISOR** - ETHERNET-LAN single package for installation from 1 to 3 units

**CEA WELDING SUPERVISOR** - ETHERNET-LAN single package for installation from 4 to 9 units

**CEA WELDING SUPERVISOR** - ETHERNET-LAN single package for installation of more than 10 units

INCLUDED

CWS - Cea Welding Supervisor BOX KIT

Included

QR and BARCODE reader wireless

Included

CWS SOFTWARE LICENCE - Cea Welding Supervisor

Included

## CWS - WIFI



CWS BOX KIT

+



WIFI KIT

+



BAR CODE  
READER

+



CWS SOFTWARE  
LICENSE

CODE

DESCRIPTION

CEA WELDING SUPERVISOR - WIFI KIT

**CEA WELDING SUPERVISOR** - WIFI single package for installation from 1 to 3 unit

**CEA WELDING SUPERVISOR** - WIFI single package for installation from 4 to 9 unit

**CEA WELDING SUPERVISOR** - WIFI single package for installation of more than 10 units

INCLUDED

CWS - Cea Welding Supervisor BOX KIT

Included

QR and BARCODE reader wireless

Included

CWS SOFTWARE LICENCE - Cea Welding Supervisor

Included

WIRELESS TRANSMISSION KIT for CWS Cea Welding Supervisor

Included

CODE

DESCRIPTION

CWS ACCESORIES / SPARES

QR and BARCODE reader wireless

WIRELESS TRANSMISSION KIT for CWS Cea Welding Supervisor

# 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.



## 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.

## EN 1090

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 89/106/EEC.



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

### EN 1090-1

defining the requirements for component compliance (CE marking)

### EN 1090-2

defining the technical requirements for steel structures

### EN 1090-3

defining technical requirements for Aluminium structures

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

### EXC 1:

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

### EXC 2:

steel structures with strength class up to S700, e.g. civil buildings such as homes and offices from 2 to 15 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 CAN CEA 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.

### 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	





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# ACCESSORIES

## MIG MAG ACCESSORIES

- 100 WIRE FEEDERS
  - 101 WIRE FEEDER ACCESSORIES
  - 102 FEEDING ROLLS TABLE
  - 104 MIG TORCHES
  - 109 WATER COOLERS
  - 109 INTERCONNECTING CABLES
  - 110 TROLLEYS
  - 110 GROUND CABLES
  - 111 GAS REDUCERS
  - 111 OTHER ACCESSORIES
- 

## TIG ACCESSORIES

- 112 TIG TORCHES
  - 114 TROLLEYS
  - 114 GROUND CABLES
  - 114 GAS REDUCERS
  - 115 WATER COOLERS
  - 115 OTHER ACCESSORIES
- 

## MMA ACCESSORIES

- 116 MMA TORCHES
- 116 OTHER ACCESSORIES
- 117 PROFESSIONAL WELDING APPAREL



# WIRE FEEDERS

MIG ACCESSORIES



**WF5**



**SWF**



**WF6**



**WF7**



**WF710**



**QF7 W PRO DRIVE**



**HT8 PRO DRIVE**



**YARD 4 W**

## ORDER INFORMATION

CODE	DESCRIPTIONS			MAXI I	MAXI I SYNERGIC	QUBOX	DIGITECH
WIRE FEEDERS							
030635	Wire Feeder	<b>WF 5</b>	with 4 rolls (Ø 1,0 / 1,2)	●			
030755	Wire Feeder	<b>SWF STRONG FEEDER</b>	with 4 rolls (Ø 1,0 / 1,2)	●			
030636	Wire Feeder	<b>WF 6</b>	with 4 rolls (Ø 1,0 / 1,2)	●			
030637	Wire Feeder	<b>WF 7</b>	with 4 rolls (Ø 1,0 / 1,2) with V adjustment	●			
030663	Wire Feeder	<b>WF 710</b>	with 4 rolls (Ø 1,0 / 1,2)		●		
030726	Wire Feeder	<b>QF 7 W PRO DRIVE</b>	with 4 rolls (Ø 1,0 / 1,2)			●	
030718	Wire Feeder	<b>HT 8 PRO DRIVE</b>	with 4 rolls (Ø 1,0 / 1,2)				●
YARD WIRE FEEDERS - 200 mm SPOOL							
030724	Wire Feeder	<b>YARD 4</b>	with A/V and Flowmeter 4 rolls (Ø 1,0 / 1,2) Air cooled			●	
030729	Wire Feeder	<b>YARD 4 W</b>	with A/V and Flowmeter 4 rolls (Ø 1,0 / 1,2) Water cooled			●	

# WIRE FEEDER ACCESSORIES

MIG ACCESSORIES



**WK2**



**WK4**



**WF WHEELS KIT W. FASTENING PLATE**



**FASTENING PLATE FOR WF5**



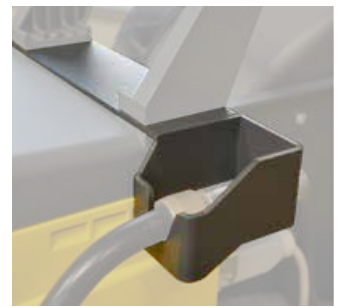
**HK1 / HK2**



**DOUBLE FEEDER SUPPORT HT8**



**MXi / MXi SYN**



**TS1 - TORCH SUPPORT KIT**



**SPOOL COVER TR2 TR4**



**WS1 - BALANCED ARM**



**ADAPTOR KIT FOR WS1 WITH DIGITECH**

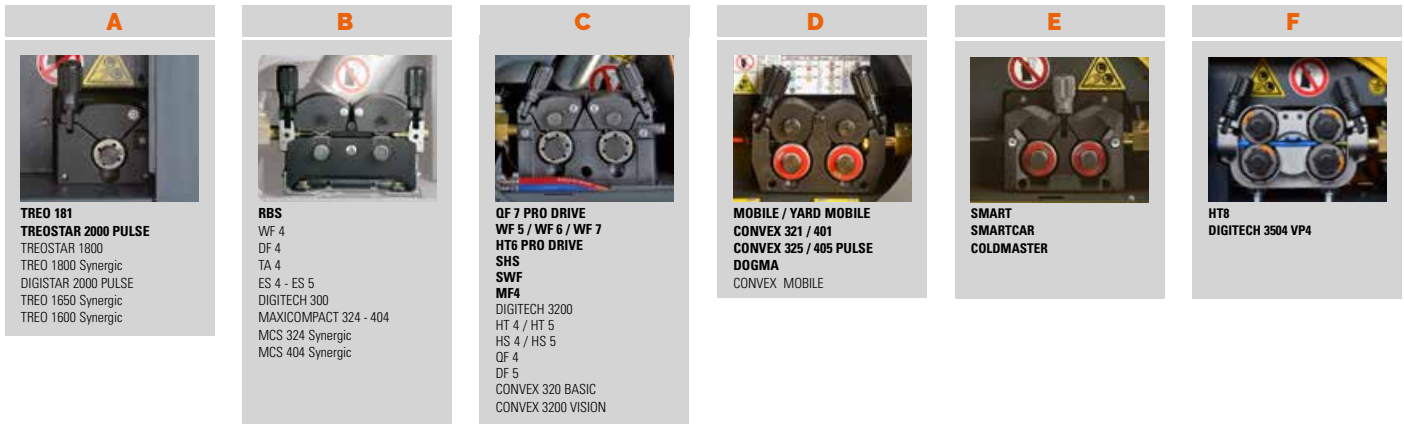
## ORDER INFORMATION

CODE	DESCRIPTIONS	Q77 W PRO DRIVE	YARD 4	YARD 4 W	HT6 / HT8 PRO DRIVE	WF5	SWF	WF6 / WF7	WF 710
WHEELS KIT									
031007	<b>WK 2</b> extra-large wheels kit	●			●			●	●
031116	<b>WK 4</b> standard wheels kit	●			●			●	●
030927	<b>WF 5 WHEELS KIT</b> with fastening plate (030887)					●			
OTHER ACCESORIES									
031117	<b>HK 1</b> - Hanging Kit	●			●				
031122	<b>HK 2</b> - Hanging Kit							●	
031120	Connection <b>kit for double HT8</b> wire feeder for Digitech <b>VP4</b>				●				
030887	Fastening plate to fix interconnecting cable to WF 5					●			
031009	<b>"MXi"</b> to connect water cooled interconnecting cable to the wire feeder							●	
031019	<b>"MXi SYN"</b> to connect water cooled interconnecting cable to the wire feeder								●
031124	<b>TS1</b> - Torch support KIT							●	●
420430	Complete <b>spool cover</b> for TR2 and TR4								
465373	<b>WS1</b> - Balanced arm for Wire Feeder (not with with CT 70)	●			●				
031135	Adaptor kit for WS1 with DIGITECH				●				

# FEEDING ROLLS TABLE

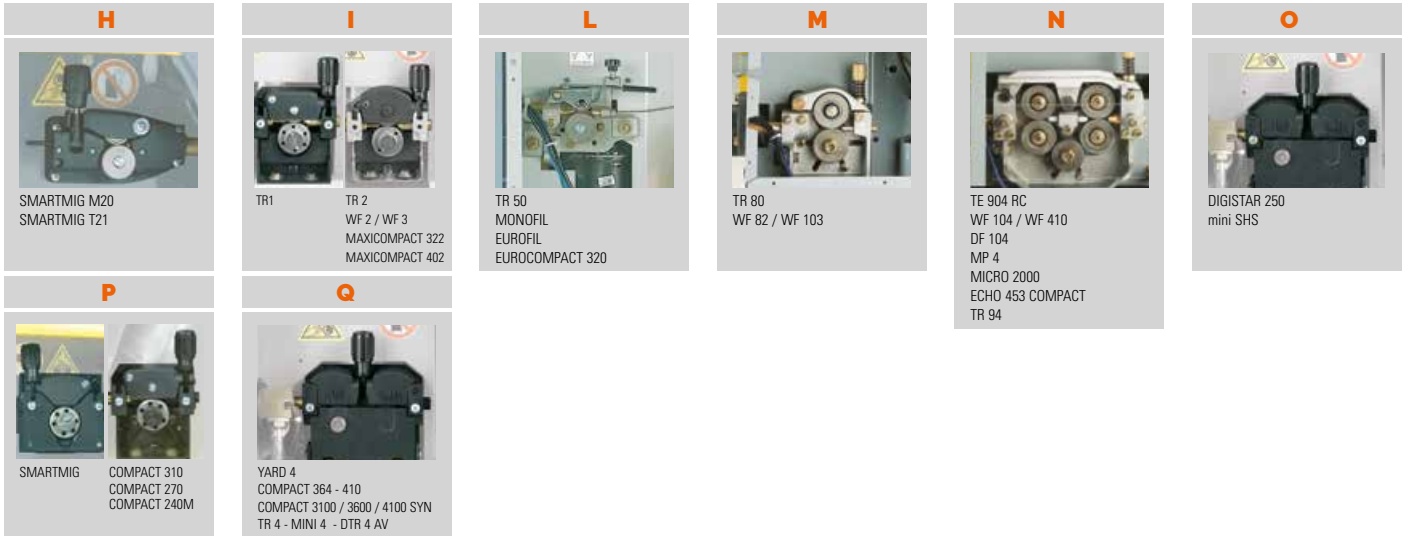
## FEEDER MECHANISMS IN PRODUCTION

\* The machine models in bold are in production



CODE	Ø WIRE mm	MATERIAL	TYPE OF ROLL	Quantity per FEEDER					
				A	B	C	D	E	F
458903	0,6 - 0,8	Steel	Motor		2	2			
458905	0,8 - 1,0	Steel	Motor		2	2			
458915	1,0 - 1,2	Steel	Motor		2	2			
458925	1,2 - 1,6	Steel	Motor		2	2			
459170	0,6 - 0,8	Steel	Motor	1					
459172	0,8 - 1,0	Steel	Motor	1					
459174	1,0 - 1,2	Steel	Motor	1					
458950	1,0 - 1,2	Flux cored	Motor		2	2			
458955	1,2 - 1,6	Flux cored	Motor		2	2			
458965	1,6 - (2,0) - 2,4	Flux cored	Motor		2	2			
458979	0,8 twin	Aluminium	Idle			2			
458981	1,0 twin	Aluminium	Idle			2			
458984	1,2 twin	Aluminium	Idle			2			
458987	1,6 twin	Aluminium	Idle			2			
458968	0,8 - 1,0 twin	Aluminium	Motor		4	2			
458970	1,0 - 1,2 twin	Aluminium	Motor		4	2			
458975	1,2 - 1,6 twin	Aluminium	Motor		4				
459180	0,8 - 1,0	Aluminium	Motor	1					
459182	1,0 - 1,2	Aluminium	Motor	1					
459190	1,0 - 1,2	Flux cored	Motor	1					
459001	All	Steel	Idle				2		
422923	All	All	Idle					2	
459002	0,6 - 0,8	Steel	Motor				2	2	
459005	0,8 - 0,9	Steel	Motor				2	2	
459003	0,8 - 1,0	Steel	Motor				2	2	
459004	1,0 - 1,2	Steel	Motor				2	2	
459006	1,2 - 1,6	Steel	Motor				2		
459010	1,0 twin	Aluminium	Idle				2		
459011	1,2 twin	Aluminium	Idle				2		
459013	1,0 twin	Aluminium	Motor				2		
459014	1,2 twin	Aluminium	Motor				2		
459055	0,8 - 1,0	Aluminium	Motor					2	
459056	1,2 - 1,6	Aluminium	Motor					2	
459020	1,0 twin	Flux cored	Idle				2		
459021	1,2 twin	Flux cored	Idle				2		
459019	1,6 twin	Flux cored	Idle				2		
459022	1,0 twin	Flux cored	Motor				2		
459023	1,2 twin	Flux cored	Motor				2		
459024	1,6 twin	Flux cored	Motor				2		
459025	0,6 - 0,8 twin	Steel / Inox	Motor/Idle						4
459029	0,8 - 0,9 twin	Steel / Inox	Motor/Idle						4
459026	0,8 - 1,0 twin	Steel / Inox	Motor/Idle						4
459027	1,0 - 1,2 twin	Steel / Inox	Motor/Idle						4
459028	1,2 - 1,6 twin	Steel / Inox	Motor/Idle						4
459061	0,8 - 1,0 twin	Aluminium	Motor/Idle						4
459062	1,0 - 1,2 twin	Aluminium	Motor/Idle						4
459063	1,2 - 1,6 twin	Aluminium	Motor/Idle						4
459066	1,0 - 1,2 twin	Flux cored	Motor/Idle						4
459067	1,2 - 1,6 twin	Flux cored	Motor/Idle						4

## FEEDER MECHANISMS OF EQUIPMENT OUT OF PRODUCTION

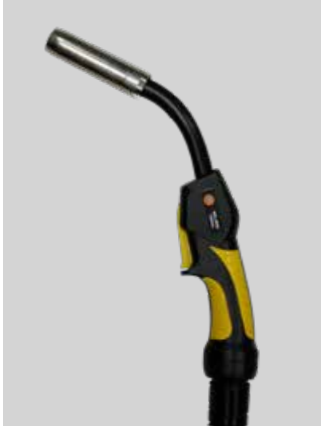


CODE	Ø WIRE mm	MATERIAL	TYPE OF ROLL	Quantity per FEEDER									
				H	I	L	M	N	O	P	Q		
459250	0,6 - 0,8	Steel / FCW	Motor	1									
459251	0,8 - 1,0	Steel / FCW	Motor	1									
459261	1,0 - 1,2	Steel / FCW	Motor	1									
459260	0,8 - 1,0	Aluminium	Motor	1									
459107	0,6 - 0,8	Steel	Motor			1							
459125	0,8 - 1,0	Steel	Motor			1							
459159	1,0 - 1,2	Steel	Motor			1							
458846	1,0 - 1,2	Aluminium	Motor			1							
458903	0,6 - 0,8	Steel	Motor	1					2			2	
458905	0,8 - 1,0	Steel	Motor	1					2			2	
458915	1,0 - 1,2	Steel	Motor	1					2			2	
458925	1,2 - 1,6	Steel	Motor	1					2			2	
459121	0,8	Steel	Motor				1						
459161	1,0	Steel	Motor				1						
459201	1,2	Steel	Motor				1						
459241	1,6	Steel	Motor				1						
459281	2,0	Steel	Motor				1						
459123	0,8	Steel	Motor					2					
459163	1,0	Steel	Motor					2					
459203	1,2	Steel	Motor					2					
459244	1,6	Steel	Motor					2					
459284	2,0	Steel	Motor					2					
458849	1,2	Aluminium	Motor				1						
458853	1,6	Aluminium	Motor				1						
458930	0,8 - 1,0	Aluminium	Motor	1								2	
458935	1,0 - 1,2	Aluminium	Motor	1								2	
458945	1,2 - 1,6	Aluminium	Motor	1								2	
459333	1,2	Flux cored	Motor				1						
459242	1,6	Flux cored	Motor				1						
458950	1,0 - 1,2	Flux cored	Motor	1					2			2	
458955	1,2 - 1,6	Flux cored	Motor	1					2			2	
458965	1,6 - (2,0) - 2,4	Flux cored	Motor	1					2			2	
459106	All	Steel	Idle				1	2					
459086	0,8	Aluminium	Idle				1	4					
459087	1,0	Aluminium	Idle				1	4					
459088	1,2	Aluminium	Idle				1	4					
459089	1,6	Aluminium	Idle				1	4					
458968	0,8 - 1,0 twin	Aluminium	Motor						2				
458970	1,0 - 1,2 twin	Aluminium	Motor						2				
458978	0,8 - 1,0 twin	Aluminium	Idle						2				
458980	1,0 - 1,2 twin	Aluminium	Idle						2				
458975	1,2 - 1,6 twin	Aluminium	Motor						2				
458985	1,2 - 1,6 twin	Aluminium	Idle						2				
459090	1,6	Flux cored	Idle				1	4					
459092	2,4	Flux cored	Idle				1	4					
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	

(\*\*\*) Prices available in the spare parts list

# MIG TORCHES

## MIG ACCESSORIES



**CEA CX - CXH TORCH**



**CEA C TORCH**



**UP/DOWN TORCH**



**DIGITORCH**

## ORDER INFORMATION

CODE	DESCRIPTION				
CEA MIG TORCHES CX and CXH series					
020458	CEA Torch <b>CX 251/3</b>	3 m	wire Ø 0,8/1,2		CO2 260A @60% / Mix 200A @60%
020459	CEA Torch <b>CX 251/4</b>	4 m	wire Ø 0,8/1,2		CO2 260A @60% / Mix 200A @60%
020463	CEA Torch <b>CX 351/4</b>	4 m	wire Ø 0,8/1,2		CO2 340A @60% / Mix 220A @60%
020465	CEA Torch <b>CX 351/A</b>	3 m	wire Ø 0,8/1,2	for Aluminium	CO2 340A @60% / Mix 220A @60%
020466	CEA Torch <b>CX 353/4</b>	4 m	wire Ø 0,8/1,2		CO2 340A @60% / Mix 290A @60%
020471	CEA Torch <b>CX 451/4</b>	4 m	wire Ø 0,8/1,6		CO2 400A @60% / Mix 300A @60%
021002	CEA Torch <b>CX 353/4 Up/Down-6p</b>	4 m	wire Ø 0,8/1,2		CO2 340A @60% / Mix 290A @60%
021006	CEA Torch <b>CX 353/4 Up/Down-17p</b>	4 m	wire Ø 0,8/1,2		CO2 340A @60% / Mix 290A @60%
020472	CEA Torch <b>CXH 302/4</b>	4 m	wire Ø 0,8/1,2	water cooled	CO2 300A @100% / Mix 250A @100%
020473	CEA Torch <b>CXH 302/A</b>	3 m	wire Ø 0,8/1,2	water cooled for Aluminium	CO2 300A @100% / Mix 250A @100%
020479	CEA Torch <b>CXH 402/4</b>	4 m	wire Ø 0,8/1,6	water cooled	CO2 500A @100% / Mix 450A @100%
020480	CEA Torch <b>CXH 402/A</b>	3 m	wire Ø 1,0/1,6	water cooled for Aluminium	CO2 500A @100% / Mix 450A @100%
020481	CEA Torch <b>CXH 502/4</b>	4 m	wire Ø 1,0/1,6	water cooled	CO2 550A @100% / Mix 500A @100%
021001	CEA Torch <b>CXH 302/4 Up/Down-6p</b>	4 m	wire Ø 0,8/1,2	water cooled	CO2 300A @100% / Mix 250A @100%
021005	CEA Torch <b>CXH 302/4 Up/Down-17p</b>	4 m	wire Ø 0,8/1,2	water cooled	CO2 300A @100% / Mix 250A @100%
021007	CEA Torch <b>CXH 402/4 Up/Down-17p</b>	4 m	wire Ø 0,8/1,6	water cooled	CO2 500A @100% / Mix 450A @100%
DIGITORCH					
021021	CEA <b>Digitorch DX 353/4-17p</b>	4 m	wire Ø 0,8/1,2		CO2 340A @60% / Mix 290A @60%
021016	CEA <b>Digitorch DX 353/4-D</b>	4 m	wire Ø 0,8/1,2		CO2 340A @60% / Mix 290A @60%
021020	CEA <b>Digitorch DXH 302/4-17p</b>	4 m	wire Ø 0,8/1,2	water cooled	CO2 300A @100% / Mix 250A @100%
021015	CEA <b>Digitorch DXH 302/4-D</b>	4 m	wire Ø 0,8/1,2	water cooled	CO2 300A @100% / Mix 250A @100%
021022	CEA <b>Digitorch DXH 402/4-17p</b>	4 m	wire Ø 0,8/1,6	water cooled	CO2 500A @100% / Mix 450A @100%
021017	CEA <b>Digitorch DXH 402/4-D</b>	4 m	wire Ø 0,8/1,6	water cooled	CO2 500A @100% / Mix 450A @100%
CEA MIG TORCHES WITH CONSUMABLES SIMILAR TO BINZEL					
020420	CEA Torch <b>C 15/3</b>	3 m	wire Ø 0,6/1,0		
020421	CEA Torch <b>C 25/3</b>	3 m	wire Ø 0,8/1,2		
020422	CEA Torch <b>C 25/4</b>	4 m	wire Ø 0,8/1,2		
020424	CEA Torch <b>C 36/4</b>	4 m	wire Ø 0,8/1,2		
ABICOR BINZEL PUSH PULL					
020488	Push Pull Torch <b>PP 401 D</b>	8 m	24 V wire Ø 0,8/1,2	water cooled (to be ordered with 031123)	
031107	Push Pull synchronizer PC Board KIT (to be ordered with the Push pull torch)				
031113	Push Pull synchronizer PC Board KIT 24 / 42 V (to be ordered with the Push pull torch)				
031123	Push Pull synchronizer PC Board KIT 24 / 42 V (to be ordered with the Push pull torch)				
TORCH ACCESSORIES					
460369	WPE 1 Water Hoses Extension Kit for non-standard water cooled CEA Torch				

UP DOWN TORCHES / DIGITORCH / PUSH PULL MATCHING

CODE	DESCRIPTION	MOBILE / YARD MOBILE	SMARTCAR	CONVEX	DOGMA	MAXI i SYNERGIC	QUBOX / QUBOX PULSE	DIGITECH
021002	CEA Torch <b>CX 353/4 Up/Down-6p</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%							
021006	CEA Torch <b>CX 353/4 Up/Down-17p</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	●		●	●	●	●	●
021001	CEA Torch <b>CXH 302/4 Up/Down-6p</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%							
021005	CEA Torch <b>CXH 302/4 Up/Down-17p</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%	≈		≈	≈	≈	≈	≈
021007	CEA Torch <b>CXH 402/4 Up/Down-17p</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%	≈		≈	≈	≈	≈	≈
DIGITORCH								
021021	CEA <b>Digitorch DX 353/4-17p</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%				●	●	●	●
021016	CEA <b>Digitorch DX 353/4-D</b> 4 m wire Ø 0,8/1,2 CO2 340A @60% / Mix 290A @60%	●	●		●			
021020	CEA <b>Digitorch DXH 302/4-17p</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%					≈	≈	≈
021015	CEA <b>Digitorch DXH 302/4-D</b> 4 m wire Ø 0,8/1,2 water cooled CO2 300A @100% / Mix 250A @100%	≈			≈			
021022	CEA <b>Digitorch DXH 402/4-17p</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%					≈	≈	≈
021017	CEA <b>Digitorch DXH 402/4-D</b> 4 m wire Ø 0,8/1,6 water cooled CO2 500A @100% / Mix 450A @100%	≈			≈			
ABICOR BINZEL PUSH PULL								
020488	Push Pull Torch <b>PP 401 D</b> 8 m 24 V wire Ø 0,8/1,2 water cooled (to be ordered w. Push Pull KIT)				≈**	≈	≈	≈
031113	Push Pull Synchronizer PC Board KIT 24/42 V					≈	≈	≈
031123	Push Pull Synchronizer PC Board KIT 24/42 V				≈**			

\*\* for DOGMA 322/322W, DOGMA 402/402W, DOGMA 326/326W and DOGMA 406/406W

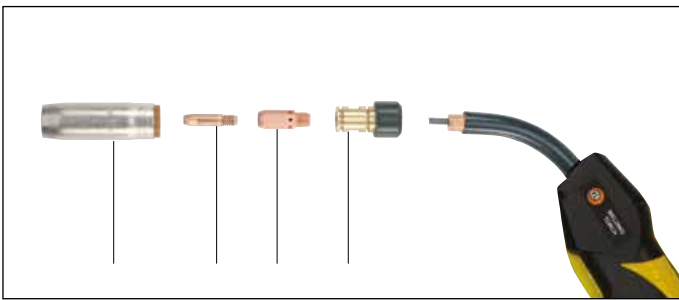
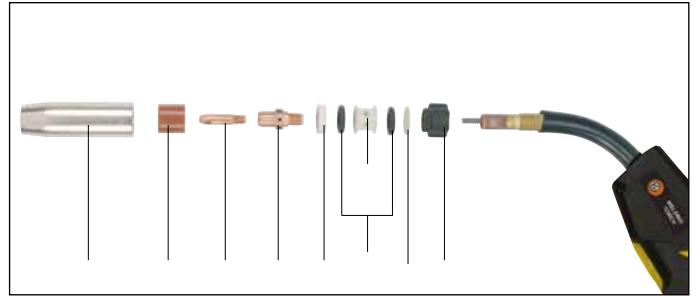
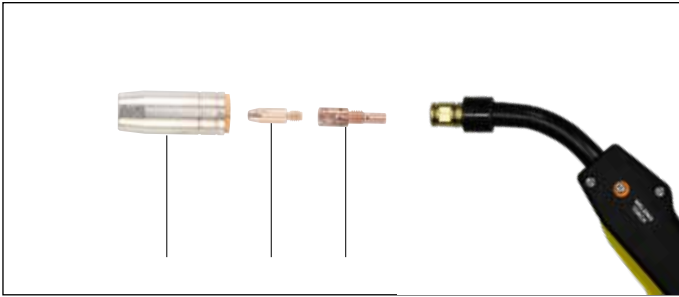
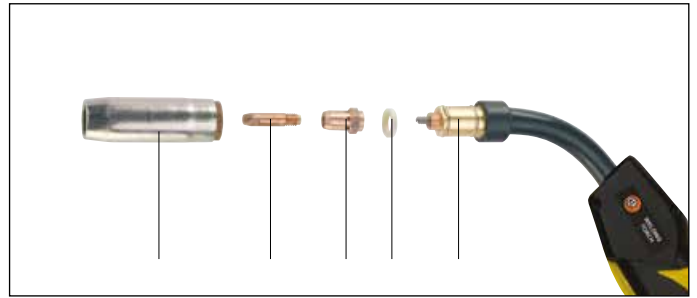
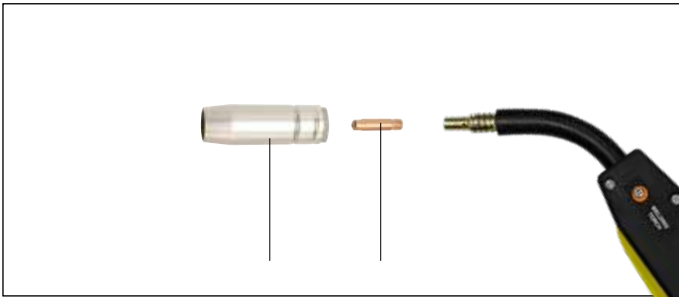


FOR MORE  
INFORMATION ON MIG  
TORCHES





## CONSUMABLES FOR MIG/MAG TORCHES



## ORDER INFORMATION

CODE	DESCRIPTION	T1	T2	T3		T4		T5	SET / QTY		
		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
<b>1</b>	<b>GAS NOZZLES</b>										
486120	Gas Nozzle			•					1		
486121	Gas Nozzle				•	•			1		
486137	Gas Nozzle						•		1		
486122	Gas Nozzle						•	•	1		
486127	Gas Nozzle							•	1		
486035	Gas Nozzle								1		
486137	Gas Nozzle						•		1		
486128	Cone shaped Gas Nozzle			•					1		
486151	Cone shaped Gas Nozzle				•	•			1		
486138	Cone shaped Gas Nozzle						•		1		
486182	Cone shaped Gas Nozzle	•							1		
486154	Cone shaped Gas Nozzle		•				•	•	1		
486206	Cone shaped Gas Nozzle		•						1		
486031	Cone shaped Gas Nozzle			•					1		
486034	Cone shaped Gas Nozzle								1		
486149	Cylindric gas nozzle						•		1		
486155	Cylindric gas nozzle							•	1		
486184	Narrow Cone shaped Gas Nozzle	•							1		
486210	Narrow Cone shaped Gas Nozzle		•						1		
486030	Narrow Cone shaped Gas Nozzle			•					1		
486033	Narrow Cone shaped Gas Nozzle								1		

CODE	DESCRIPTION	T1	T2	T3			T4	T5	SET / Q.TY		
		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
<b>2</b>	<b>CONTACT TIPS</b>										
486171	∅ 0,6 mm Contact Tip	●							10		
486177	∅ 0,6 mm Contact Tip - Cu-Cr-Zr	●							10		
486173	∅ 0,8 mm Contact Tip	●							10		
454808	∅ 0,8 mm Contact Tip				●				10		
454798	∅ 0,8 mm Contact Tip					●			10		
486189	∅ 0,8 mm Contact Tip		●						10		
454820	∅ 0,8 mm Contact Tip			●					10		
486179	∅ 0,8 mm Contact Tip - Cu-Cr-Zr	●							10		
486195	∅ 0,8 mm Contact Tip - Cu-Cr-Zr		●						10		
454810	∅ 0,8 mm Contact Tip - Cu-Cr-Zr				●				5		
454797	∅ 0,8 mm Contact Tip - Cu-Cr-Zr					●	●		5		
454824	∅ 0,8 mm Contact Tip - Cu-Cr-Zr			●					10		
454838	∅ 1,0 mm Contact Tip				●				10		
486175	∅ 1,0 mm Contact Tip	●							10		
454878	∅ 1,0 mm Contact Tip				●	●			10		
486191	∅ 1,0 mm Contact Tip		●				●	●	10		
454821	∅ 1,0 mm Contact Tip			●					10		
486181	∅ 1,0 mm Contact Tip - Cu-Cr-Zr	●							10		
454876	∅ 1,0 mm Contact Tip - Cu-Cr-Zr				●	●			5		
454844	∅ 1,0 mm Contact Tip - Cu-Cr-Zr				●				5		
486197	∅ 1,0 mm Contact Tip - Cu-Cr-Zr		●						10		
454825	∅ 1,0 mm Contact Tip - Cu-Cr-Zr			●					10		
486203	∅ 1,0 mm Contact Tip for Al		●						10		
454851	∅ 1,0 mm Contact Tip for Al			●					10		
454958	∅ 1,2 mm Contact Tip				●	●	●	●	10		
454845	∅ 1,2 mm Contact Tip				●				10		
486193	∅ 1,2 mm Contact Tip		●						10		
454822	∅ 1,2 mm Contact Tip			●					10		
486199	∅ 1,2 mm Contact Tip - Cu-Cr-Zr		●						10		
454957	∅ 1,2 mm Contact Tip - Cu-Cr-Zr				●	●	●	●	5		
454846	∅ 1,2 mm Contact Tip - Cu-Cr-Zr				●				5		
454826	∅ 1,2 mm Contact Tip - Cu-Cr-Zr			●					10		
486205	∅ 1,2 mm Contact Tip for Al		●						10		
454852	∅ 1,2 mm Contact Tip for Al			●					10		
454998	∅ 1,6 mm Contact Tip						●	●	10		
454823	∅ 1,6 mm Contact Tip								10		
454997	∅ 1,6 mm Contact Tip - Cu-Cr-Zr						●	●	5		
454827	∅ 1,6 mm Contact Tip - Cu-Cr-Zr								10		
454853	∅ 1,6 mm Contact Tip for Al								10		
455168	∅ 2,0 mm Contact Tip						●	●	10		
455167	∅ 2,0 mm Contact Tip - Cu-Cr-Zr						●	●	5		
<b>3</b>	<b>GAS DIFFUSERS</b>										
423220	Gas Diffuser				●				1		
423221	Gas Diffuser					●			1		
423422	Gas Diffuser						●		1		
423218	Gas Diffuser						●		1		
423219	Gas Diffuser							●	1		
455445	Gas Diffuser							●	1		
423217	Gas Diffuser		●						1		
423423	Ceramic Gas Diffuser			●					1		
423421	Gas Diffuser								1		
423420	Gas Diffuser								1		
<b>4</b>	<b>GAZ NOZZLE SUPPORTS</b>										
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		



ORDER INFORMATION

CODE	DESCRIPTION	T1	T2	T3					T4			T5	SET / Q.TY	
		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
<b>5</b>	<b>OTHER</b>													
424391	Spacer												●	1
<b>6</b>	<b>OTHER</b>													
407516	Insulation bush												●	1
<b>7</b>	<b>OTHER</b>													
430788	Locknut												●	1
<b>8</b>	<b>OTHER</b>													
458327	Insulating washer									●	●			1
400462	Insulating washer								●					1
<b>9</b>	<b>OTHER</b>													
433599	Seal												●	1
<b>10</b>	<b>OTHER</b>													
458304	Insulating washer												●	1
<b>11</b>	<b>OTHER</b>													
458305	Pressure washer												●	1
<b>LINER AND LINER LOCKING COLLETS</b>														
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
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



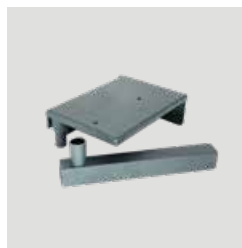
IR 14



HRX 51  
HRX 61-LC Reinforced Pump



HRX 52



Kit for Retrofit IR 14

CODE	DESCRIPTION	MOBILE	CONVEX	MAXI I	DIGITECH
032050	Water cooling equipment <b>IR 14</b> 400 V			≈	
032055	Water cooling equipment <b>IR 14</b> 230 V				
032090	Water cooling equipment <b>HR 30</b> 400 V		≈		
032098	Water cooling equipment <b>HR 32</b> 400 V		≈		
032125	Water cooling equipment <b>HRX 51</b> 400 V				≈
032130	Water cooling equipment <b>HRX 52</b> 400 V	≈			≈
032126	Water cooling equipment <b>HRX 61-LC</b> 400 V reinforced pump 4,5 bar, con. over 20 m				≈
031012	Kit for Retrofit <b>IR 14</b>			≈	

# INTERCONNECTING CABLES

## MIG ACCESSORIES

CODE	DESCRIPTION	MAXI I	MAXI I SYNERGIC	QUBOX	DIGITECH
010930	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	●			
010935	5 m Air cooled Interconnecting cable Power source-Wire feeder	●			
010940	10 m Air cooled Interconnecting cable Power source-Wire feeder	●			
020894	20 m / 70 mm <sup>2</sup> Air cooled	●			
020845	30 m / 70 mm <sup>2</sup> Air cooled	≈			
010945	1,2 m Water cooled Interconnecting cable Power source-Wire feeder	≈			
010950	5 m Water cooled Interconnecting cable Power source-Wire feeder	≈			
010955	10 m Water cooled Interconnecting cable Power source-Wire feeder	≈			
020844	20 m / 70 mm <sup>2</sup> Water cooled	≈			
010960	1,2 m Air cooled Interconnecting cable Power source-Wire feeder	●			
010965	5 m Air cooled Interconnecting cable Power source-Wire feeder	●			
010970	10 m Air cooled Interconnecting cable Power source-Wire feeder	●			
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 <sup>2</sup> Air cooled Interconnecting cable Power source-Wire feeder	●			
010972	30 m / 70 mm <sup>2</sup> Air cooled Interconnecting cable Power source-Wire feeder	●			
010990	20 m / 70 mm <sup>2</sup> Water cooled Interconnecting cable Power source-Wire feeder	≈			
010866	1,2 m Air cooled Interconnecting cable Power source-Wire feeder		●	●	●
010864	4 m Air cooled Interconnecting cable Power source-Wire feeder		●	●	●
010867	5 m Air cooled Interconnecting cable Power source-Wire feeder		●	●	●
010868	10 m Air cooled Interconnecting cable Power source-Wire feeder		●	●	●
010871	20 m / 70 mm <sup>2</sup> Air cooled		●	●	●
010869	30 m / 70 mm <sup>2</sup> Air cooled		●	●	●
010872	40 m / 70 mm <sup>2</sup> Air cooled		●	●	●
010839	1,2 m Water cooled Interconnecting cable Power source-Wire feeder		≈	≈	≈
010841	4 m Water cooled Interconnecting cable Power source-Wire feeder		≈	≈	≈
010842	5 m Water cooled Interconnecting cable Power source-Wire feeder		≈	≈	≈
010846	10 m Water cooled Interconnecting cable Power source-Wire feeder		≈	≈	≈
010859	15 m / 70 mm <sup>2</sup> Water cooled		≈	≈	≈
010854	20 m / 70 mm <sup>2</sup> Water cooled		≈	≈	≈
010861	25 m / 70 mm <sup>2</sup> Water cooled for with 032105 - HR 61-LC				≈
010876	30 m / 70 mm <sup>2</sup> Water cooled for with 032105 - HR 61-LC				≈

# TROLLEYS / SUPPORTS FOR MIG EQUIPMENT

## MIG ACCESSORIES



Accessory BOX KIT /  
SUPPORT PLATE

CODE	DESCRIPTION	TREO	TREOSTAR	MOBILE	CONVEX	MAXI I / MAXI I SYN	QUBOX	DIGITECH
031007	<b>WK 2</b> extra-large wheels kit			●				
234929	Trolley <b>VT 101</b> for power source, cooling equipment and cylinder	●						
234931	Trolley <b>CT 401</b> for power source, cooling equipment and cylinder			●				
234907	Trolley <b>CT 46</b> for power source, cooling equipment and cylinder				●			●*
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment and cylinder				●			●
234932	Trolley <b>PRIME CT 80</b> with 4 rolls for power source, cooling equipment and cylinder							●
234934	Trolley <b>PRIME CT 81</b> with 4 rolls for power source, cooling equipment and cylinder							●
234935	Trolley <b>PRIME CT 82</b> with 4 rolls for power source, cooling equipment and two gas cylinders							●
344013	<b>Accessory BOX KIT</b> (to be ordered with HR32)			●				
449478	<b>Adaptor support</b> plate for CONVEX MOBILE mounted on CT401			●				
344015	<b>BK 1</b> Accessory BOX kit				●			●
031132	<b>TS2</b> - Torch support KIT for compact welding equipment				●			●
031126	<b>DHS</b> - Double Hook Support for winding cables					●	●	
031008	<b>WK 3</b> extra-large wheels kit for power sources (without gas bottle)				●			●*

# GROUND CABLES

## MIG ACCESSORIES

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



UltraLUX Welding Mask



CL-1100 cooling liquid 5l



Anti spatter Spray



Autotransformer A13-H

CODE	DESCRIPTION
460369	WPE 1 Water Hoses Extension Kit for non-standard water cooled CEA Torch
031124	TS1 - Torch support KIT for separate wire feeder equipment
439230	<b>UltraLUX</b> infinite shade adjustment from DIN 9/13 by potentiometer
020340	Autotransformer <b>A13-H</b> 220/400 V 50/60 Hz 3 phase
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank
	ANTI SPATTER SPRAY
407222	<b>ECOXWELD</b> - 400 ml - Ecologic water based anti-spatter spray - Chlorinated and Silicon free
407222A	Package of 12 pieces of ECOXWELD - 400 ml
407223	<b>CERAMXWELD</b> - 500 ml - Ceramic based long lasting anti-spatter spray (*) - Chlorinated and Silicon Free
407223A	Package of 12 pieces of CERAMXWELD - 500 ml (*)

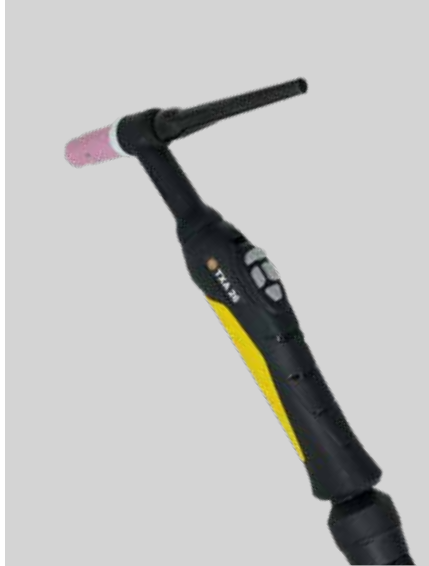
\*resist up to 1500°C

# TIG TORCHES

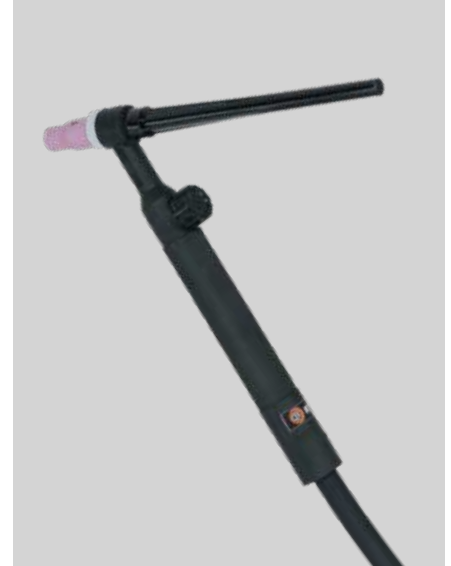
## TIG ACCESSORIES



CEA TXA/TXH TORCHES



CEA TXA/TXH UP/DOWN TORCHES



CEA RTX TORCHES



Kit Button / Potentiometer



Kit Button / UP/DOWN

FOR MORE  
INFORMATION ON  
TIG TORCHES



## ORDER INFORMATION

CODE	DESCRIPTION	
CEA TIG TORCHES: TXA and TXH series		
020553	CEA Torch <b>TXA 17.4</b>	4 m - 140 A 60% (DC)
020555	CEA Torch <b>TXA 17.8</b>	8 m - 140 A 60% (DC)
020562	CEA Torch <b>TXA 26.4</b>	4 m - 250 A 60% (DC)
020567	CEA Torch <b>TXA 26.8</b>	8 m - 250 A 60% (DC)
020662	CEA Torch <b>TXA 26.4 "UP/DOWN"</b>	4 m - 250 A 60% (DC)
020663	CEA Torch <b>TXA 26.8 "UP/DOWN"</b>	8 m - 250 A 60% (DC)
020667	CEA Torch <b>Mini TXH 20.4</b>	4 m - 250 A 100% (DC) - water cooled
020668	CEA Torch <b>Mini TXH 20,8</b>	8 m - 250 A 100% (DC) - water cooled
020680	CEA Torch <b>Mini TXH 20.4 "UP/DOWN"</b>	4 m - 250 A 100% (DC) - water cooled
020681	CEA Torch <b>Mini TXH 20,8 "UP/DOWN"</b>	8 m - 250 A 100% (DC) - water cooled
020672	CEA Torch <b>TXH 18.4</b>	4 m - 320 A 100% (DC) - water cooled
020673	CEA Torch <b>TXH 18.8</b>	8 m - 320 A 100% (DC) - water cooled
020677	CEA Torch <b>TXH 18.4 "UP/DOWN"</b>	4 m - 320 A 100% (DC) - water cooled
020678	CEA Torch <b>TXH 18.8 "UP/DOWN"</b>	8 m - 320 A 100% (DC) - water cooled
454570	<b>Kit Torches Button with Potentiometer</b> to upgrade TXA and TXH standard TIG Torches	
454567	<b>Kit Torches Button with "UP/DOWN"</b> to upgrade TXA and TXH standard TIG Torches	
TIG TORCHES WITH BUILT-IN GAS VALVE FOR TOUCH-START TECHNIQUE		
020556	Torch <b>RTX 9.4 4 m</b> - 110 A 35%	25 mm <sup>2</sup> quick connector
020558	Torch <b>RTX 17.4 4 m</b> - 140 A 35%	
020559	Torch <b>RTX 17.8 8 m</b> - 140 A 35%	
020568	Torch <b>RTX 26.4 4 m</b> - 180 A 35%	
020569	Torch <b>RTX 26.8 8 m</b> - 180 A 35%	

All the torches are completed with Tungsten electrode



CODE	DESCRIPTION	TIG TORCH												SET / QTY
		TA 9 / TXA 9	RTA 9 / RTX 9	RTA 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	
<b>1</b>	<b>CERAMIC NOZZLES</b>													
486091	Ceramic nozzle Gr.4 - int. Ø 6,5 mm	●	●									●	●	1
486068	Ceramic nozzle Gr.4 - int. Ø 6,5 mm					●	●	●	●	●	●			1
486092	Ceramic nozzle Gr.5 - int. Ø 8 mm	●	●									●	●	1
486069	Ceramic nozzle Gr.5 - int. Ø 8 mm			●	●	●	●	●	●	●	●			1
486093	Ceramic nozzle Gr.6 - int. Ø 10 mm	●	●									●	●	1
486070	Ceramic nozzle Gr.6 - int. Ø 10 mm			●	●	●	●	●	●	●	●			1
486094	Ceramic nozzle Gr.7 - int. Ø 11 mm	●	●									●	●	1
486071	Ceramic nozzle Gr.7 - int. Ø 11 mm			●	●	●	●	●	●	●	●			1
486072	Ceramic nozzle Gr.8 - int. Ø 12 mm			●	●							●	●	1
<b>2</b>	<b>COLLET HOLDERS</b>													
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
<b>3</b>	<b>COLLETS</b>													
450785	Collet Ø 1,0 mm	●	●									●	●	1
450793	Collet Ø 1,0 mm			●	●									1
450786	Collet Ø 1,6 mm	●	●									●	●	1
450794	Collet Ø 1,6 mm			●	●	●	●	●	●	●	●			1
450787	Collet Ø 2,4 mm	●	●									●	●	1
450795	Collet Ø 2,4 mm			●	●	●	●	●	●	●	●			1
450796	Collet Ø 3,2 mm					●	●	●	●	●	●			1
450788	Collet Ø 3,2 mm											●	●	1
450797	Collet Ø 4,0 mm											●	●	1
<b>4</b>	<b>NOZZLES SIDE INSULATION RINGS</b>													
436141	Insulating ring	●	●									●	●	1
436148	Insulating ring			●	●	●	●	●	●	●	●			1
<b>5</b>	<b>SEALS</b>													
433480	Seal	●	●									●	●	1
433482	Seal			●	●	●	●	●	●	●	●			1
<b>6</b>	<b>CAPS</b>													
410556	Short cap	●	●									●	●	1
410570	Short cap			●	●	●	●	●	●	●	●			1
410557	Long cap	●	●									●	●	1
410560	Long cap			●	●	●	●	●	●	●	●			1
	<b>GAS LENS CERAMIC NOZZLES</b>													
486096	GAS LENS Ceramic nozzle Gr. 5 - int.Ø 8 mm											●	●	1
486097	GAS LENS Ceramic nozzle Gr. 6 - int.Ø 10 mm	●	●									●	●	1
486064	GAS LENS Ceramic nozzle Gr. 6 - int.Ø 10 mm			●	●	●	●	●	●	●	●			1
486098	GAS LENS Ceramic nozzle Gr. 7 - int.Ø 11 mm	●	●									●	●	1
486065	GAS LENS Ceramic nozzle Gr. 7 - int.Ø 11 mm			●	●	●	●	●	●	●	●			1
486066	GAS LENS Ceramic nozzle Gr. 8 - int.Ø 12 mm			●	●	●	●	●	●	●	●			1
	<b>GAS LENS COLLET HOLDERS</b>													
451995	GAS LENS Collet holder Ø 1,6 mm	●	●									●	●	1
451998	GAS LENS Collet holder Ø 1,6 mm			●	●	●	●	●	●	●	●			1
451996	GAS LENS Collet holder Ø 2,4 mm	●	●									●	●	1
451999	GAS LENS Collet holder Ø 2,4 mm			●	●	●	●	●	●	●	●			1
451994	GAS LENS Collet holder Ø 3,2 mm					●	●	●	●	●	●			1
451997	GAS LENS Collet holder Ø 3,2 mm											●	●	1
451989	GAS LENS Collet holder Ø 4,0 mm											●	●	1

# TROLLEYS FOR TIG EQUIPMENT

TIG ACCESSORIES



VT 101



CT 401



CT 70



PRIME CT 80

CODE	DESCRIPTION	MATRIX 2200 HF	MATRIX 2600 HF	MATRIX 3000 HF	MATRIX 3001 HF	MATRIX X 220 HF	MATRIX X 300 HF	MATRIX X 400 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
234929	Trolley <b>VT 101</b> for power source, cylinder		●											
234931	Trolley <b>CT 401</b> for power source, cylinder		●											
234914	Trolley <b>CT 70</b> with 4 rolls for power source, cooling equipment, cylinder													●
234932	Trolley <b>PRIME CT 80</b> with 4 rolls for power source, cooling equipment, cylinder													●

# GROUND CABLES



16 / 25 mm<sup>2</sup> / 3 m Ground cable



50 mm<sup>2</sup> / 4 m Ground cable

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

# GAS REDUCERS



Reducer with 2 manometers ("MINI" Type)



Reducer with flowmeter and 1 manometer

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

# WATER COOLERS

## TIG ACCESSORIES



HR 22 / HR 23



HRX 20 / HRX 30 / HRX 40



HRX 52

CODE	DESCRIPTION	MATRIX 2200 HF	MATRIX 2600 HF	MATRIX 3000 HF	MATRIX 3001 HF	MATRIX X 220 HF	MATRIX X 300 HF	MATRIX X 400 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 <b>HR 22</b>	≈							≈					
032060	Water cooling equipment <b>HR 23</b>		≈							≈				
032120	Water cooling equipment <b>HRX 20</b>					≈					≈			
032115	Water cooling equipment <b>HRX 30</b>						≈	≈					≈	
032135	Water cooling equipment <b>HRX 40</b>						≈	≈					≈	
032130	Water cooling equipment <b>HRX 52</b>													≈

# OTHER ACCESSORIES

## TIG ACCESSORIES



PSR7



Adapter for simultaneous connection of Torch and PSR 7



CD 6/8



KIT A6



TSA1 TIG Simple Automation KIT



DFX1 / DFX5 Dust Filter



UltraLUX

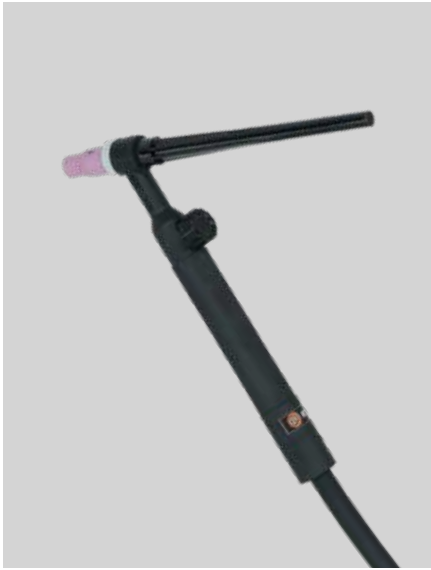


CL-1100

CODE	DESCRIPTION
<b>REMOTE CONTROLS</b>	
020919	<b>PSR 7</b> 5 m foot remote control
460056	<b>Adapter</b> for simultaneous connection of Torch and PSR 7
236243	<b>CD 6/8</b> 8 m remote control with geared down potentiometer
<b>OTHERS</b>	
460005	<b>A6</b> Connection kit for non-standard Torch
031118	<b>TSA1 TIG</b> Simple Automation KIT - ( Torch trigger - Arc On - Current Adj. 0-10 V ) for MATRIX X 220 / 300 / 400 HF - 220 / 300 AC/DC
031119	<b>TSA5 TIG</b> Simple Automation KIT - ( Torch trigger - Arc On - Current Adj. 0-10 V ) for MATRIX X 400 / 500 AC/DC
353485	<b>DFX1</b> Dust Filter for MATRIX X 220 / 300 / 400 HF - 220 / 300 AC/DC
353486	<b>DFX5</b> Dust Filter for MATRIX X 400 / X 500 AC/DC
439230	<b>UltraLUX</b> infinite shade adjustment from DIN 9/13 by potentiometer
402275A	Cea <b>CL-1100</b> cooling liquid - 5 l Tank



# TIG TORCHES WITH BUILT-IN GAS VALVE



## ORDER INFORMATION

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

MORE  
INFORMATION ON  
TIG TORCHES



CEA RTX TORCHES

# OTHER ACCESSORIES

## MMA ACCESSORIES



Remote control



Trolley CT 10



Roll bar protection kit



Carrying Belt Kit

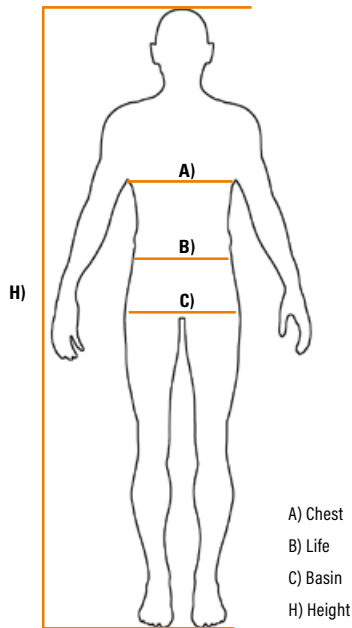


Rainbow Bag

## ORDER INFORMATION

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

# PROFESSIONAL WELDING APPAREL



<b>STANDARDS</b>	UNI EN ISO 11611:2008 <i>(Protective clothing for use in welding and allied processes)</i> UNI EN ISO 11612:2009 <i>(Protective clothing against heat and flame)</i>
Material type	100% flame retardant cotton
Rugged fabric	330 g /m <sup>2</sup>
Extra protection	highly wear-prone points are double-layered
Colour	Grey / Yellow



CODE	DESCRIPTION	SIZES						MEASURES cm		
		I	UK	E	F	DE	USA	A	H	
JACKETS										
100810	Welder's Jacket	48	16	46	44	48	M	92/98	172/178	
100811	Welder's Jacket	50	18	48	46	50	L	98/102	172/178	
100812	Welder's Jacket	52	20	50	48	52	L	102/106	174/180	
100813	Welder's Jacket	54	22	52	50	54	XL	106/110	174/180	
100814	Welder's Jacket	56	24	54	52	56	XL	110/116	176/182	



CODE	DESCRIPTION	SIZES						MEASURES cm		
		I	UK	E	F	DE	USA	B	A	H
TROUSERS										
100760	Welder's Trousers	48	16	46	44	48	M	88/92	98/102	172/174
100761	Welder's Trousers	50	18	48	46	50	M	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	56	24	54	52	56	XL	108/112	118/122	180/184



CODE	DESCRIPTION	SIZES						MEASURES cm	
		I	UK	E	F	DE	USA	A	H
WELDER'S COAT									
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



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

# SYMBOLS LIST



MIG/MAG welding



TIG HF welding



MIG Pulsed welding



TIG-Lift welding



MIG Double Pulsed welding



MMA welding with stick electrode



Single phase input



Ability to store personalized welding parameters up to 99 Jobs



Three phase input



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



Constant Current and Constant Voltage



High Resolution digital display



Constant Current



TIG pulsation



Constant Voltage



Alternative and direct current output



Direct current output



Synergic adjustment



Voltage reduction device



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*Technical characteristics might change without notice.*

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