

Product Detail:

Code: P00462

Model: PLASMA 1980 SYNERGIC LCD INVERTER

The multi-voltage, three-phase, inverter based power source for compressed air plasma metal cutting, PLASMA 1980 SYNERGIC LCD INVERTER, features innovative SYNERGIC PLASMA technology that automatically sets all cutting parameters according to the information received from the operator regarding the material being processed and the selected process. This makes it particularly suitable to operate with CNC cutting systems,

It is also equipped with an automatic pressure regulating system for the supply gas (compressed air or special gases) and can optimise performance in all operating conditions, even without the intervention of the operator.

The IVC (Input Voltage Compensation) technology allows optimal operation of the power source even when connected to power grids that do not guarantee a regular and constant power supply, or to motor-driven generators with different features that, even if correctly sized, are equipped with different voltage surge correction systems. Equipped with technology TMCS, triple Microprocessor Control System of parameters, of processes and cutting functions.

It is particularly suitable for heavy duty carpentry applications and for continuous work cycles, for manual and automatic manufacturing in industry and handicrafts.

The ignition of the pilot arc without HF allows you to work near computers and equipment sensitive to high-frequency emissions such as electromedical equipment.

It offers the possibility to activate a security password.

Equipped with safety systems on the torch head and in the machine side adapter.

Its standard equipment includes a 6 meter-long hand torch CP 180C and a grounding cable.

Equipped with new ESA Fast connector that allows the torch to be connected and disconnected quickly, no tools are needed.

MAIN FEATURES

- Auto-Set function, used to automatically select the power supply voltage in the following range: 3x208/220/230V and 400/440V.
- Low Pilot Arc technology which thanks to the special shape of the plasma chamber, together with an innovative power source and an ignition system without high frequency, allow the pilot arc to be kept on longer, without comprising the duration of the consumables.
- Pilot Arc Time function that controls the duration of the pilot arc in an automatic or adjustable manner.
- Pilot Arc Length function that controls the length of the pilot arc in an automatic or adjustable manner.
- Exhaust Electrode function that controls the electrode consumption and warns the operator that the consumables need replacing, which can be set automatically or adjusted in percentage.
- Save Post Gas function that controls the torch cooling and gas consumption, in an automatic or adjustable manner.



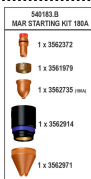
- V-out Voltage CNC function to control an electronic output cutting voltage divider to be adjusted from 1/20V to 1/100V.
- Remote Current CNC function to remotely control the cutting current adjustment with 0-10V isolated voltage.
- Input Power function used to set the input power absorbed thus automatically limiting the output cutting current, adapting the power source to all the sizes of the industrial plants.
- Self Restart Pilot function for cutting netting and grates.
- Synergic Plasma technology (Patented) that lets the power source adjust all cutting parameters automatically.
- Synergic Gouging function that automatically adjusts all the operating parameters according to the speed of execution and the amount of material to be removed.
- Synergic Marking function that automatically sets all the operating parameters according to the width and depth of the desired marking groove.
- Combi function (optional) that allows switching from Marking mode to Cutting mode or vice versa by simply increasing or decreasing the current from CNC.
- Automatic Pressure Work technology, which controls the cutting gas pressure in an automatic or adjustable manner before and during cutting, to optimise cutting quality and maximize the service life of the spare parts.
- Ultra Cut Capacity technology that increases the cutting capacity on high thickness materials.
- Innovative Thin Cut technology that ensures higher quality cutting and reduced Kerf (amount of removed material).
- Hyper Speed Cut technology that increases the cutting speed.
- Multi Piercing technology possibility of piercing on high thickness materials in less time and with less wear of consumables.
- Extra Life technology to increase the performance and service life of consumables.

Technical Data:

Code	P00462	
Item	PPLASMA 1980 SYNERGIC LCD INVERTER	
Input Voltage	3x208-220-230V 50-60HZ	3x400-440V 50-60HZ
Absorbed power	40% 30 kVA - 60% 28 kVA - 100% 26 kVA	50% 34 kVA - 60% 33 kVA - 100% 31 kVA
Cutting current	10÷160 A	10÷180 A
Duty cycle – 10 MIN CYCLE ACCORDING TO EN 60974-1	40% 160A - 60% 150A - 100% 140A	50% 180A - 60% 175A - 100% 165A
Air pressure	6,8 bar	
Air flow	310 l/min	
Cut thickness on steel	46 - 60 mm	
Max separation cut	80 mm	
Piercing	35 mm	
Protection class	IP 23	
Construction standards	EN60974 – 1 / EN60974 – 7 / EN60974 – 10	
Dimensions	330X710X540h mm	
Weight	55 kg	

Accessories:


535519 6 m, CP 180C MAR hand torch, ESA Fast connection



540183.B Consumables kit "STARTING KIT" for CP 180C MAR hand torch (180A)



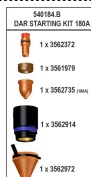
535521 (optional) 15m, CP 180C MAR hand torch, ESA Fast connection



535520 (optional) 6m, CP 180C DAR machine torch, ESA Fast connection



535522 (optional) 15 m, CP 180C DAR machine torch, ESA Fast connection



540184.B (optional) Consumables kit "STARTING KIT" for CP 180C DAR machine torch (180A)



540096 (optional) Recommended installation kit



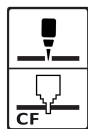
309466 (optional) Wheeled compasses for CP 180C



356764 (optional) Wheeled torch holder for CP 180C



580007 (optional) Transport cart



540103 (optional) Combi function kit (marking and cutting)



309073 (optional) Helmet with variable shade auto-darkening LCD filter (9-13 DIN) to protect face and eyes during cutting and welding appliances.



309489 (optional) Non-stick spray



357227 (optional) Compressed air filter with filtering cartridge to protect torches against impurities present in compressed air (oil and/or water).



370001 (optional) Cartridges for air filter, package of 8 pieces.
