

# PLASMA 1980 SYNERGIC LCD INVERTER



The three-phase compressed air plasma metal cutting power source, **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 synergic power source 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.



## VARIOUS DISPLAY IMAGES



## FURTHER 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.



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- **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				
	Item	PLASMA 1980 SYNERGIC LCD INVERTER		
	Code	P00462		
	Input Voltage	3x208/220/230V 50-60Hz		3x400/440V 50-60 Hz
	Absorbed power	40% 30 kVA	60% 28 kVA	100% 26 kVA
	Current range	10 ÷ 160 A		10 ÷ 180 A
	Duty cycle	40% 160A	60% 150A	100% 140A
	Max. cut thickness (steel)	46 - 60 mm		
	Coarse cutting capacity	80 mm		
	Piercing	35 mm		
	Stepless regulation	ELECTRONIC		
	Compressed air consumption	310 l/min (6,8 bar)		
	Protection class	IP23		
	Construction standards	EN60974-1 EN60974-7 EN60974-10		
	Dimensions	330x710x540 h mm		
	Weight	55 kg		

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