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CEA

PLASMATECH

made in Italy
SINCE 1950





SHARK 125-M

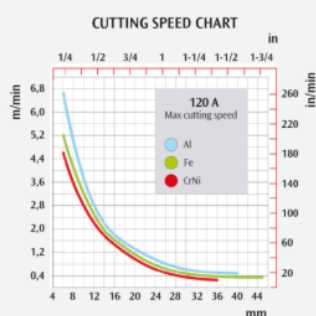
AUTOMATED PLASMA CUTTING 120 A

SHARK 125 M, with the technology HPC of the torch SKM125, it grants a cutting beam very concentrated

SHARK 125-M is equipped with display for managing all the digital control. In combination with the technology HPC High-Performance-Cutting of the torch SKM125, it grants to every user a cutting beam very concentrated and hot. This feature allows a very high precision and speed in cutting for a wide range of thickness. Shark 125 M has also the special function Smart Start Transfer and Smart End Cutting for a better management of the cut during the start and end.

Main benefits

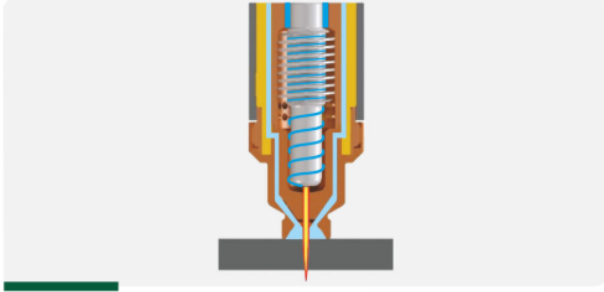
- SKM125 torch with HPC High Performance Cutting technology and coaxial cable
- Digital display for the digital control of all parameters
- High duty cycle: 120A @ 60%
- More productivity thanks to high quality and cutting speed



Other characteristics

- Reduced operating costs granted by longer life of the consumable parts
- Electronic control for an excellent cutting quality
- Professional high flow air circulation
- Pilot arc torch
- Possibility of cutting grids and perforated lamination sheets
- Contact cutting possibility
- Ability to gouging jobs
- Cutting parameter stability within $\pm 20\%$ mains voltage fluctuations
- Shockproof and dustproof control rack protection cover
- Electric protection on the torch for the maximum safety of the operator

TECHNICAL FEATURES



HIGH PERFORMANCE CUTTING - HPC

HPC permits the generation of radial and swirling gas flows to the cutting arc axis, thus creating a plasma beam that melts and vaporizes the surface for cutting in a more efficient way. This technology also avoids the phenomenon of the double arc by ensuring the highest quality and the best cutting performance together with a longer life of the consumables.

High Performance Cutting SK torches increase the density of the plasma cutting beam and reduce the width of the arc cut area, by producing a narrower and less inclined cut.

SMART END CUTTING

Innovative function that allows, at the end of the cut, a gradual and synergetic decline of the current up to an optimal value. Compared to traditional end-of-cut methods, it has the following advantages:

- Improved end-of-cut quality with permanent separation of parts
- Cutting end noise reduction
- Prevents the operator from manually separating pieces by ruining the final part of the cutting surface

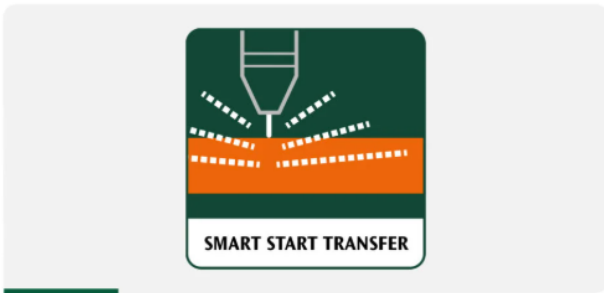


SMART START TRANSFER

Innovative electronic circuit that allows an optimal and gradual transfer of the pilot-arc in the main arc, during the start of the cutting arc.

Compared to a traditional system of arc transfer, it has the following advantages:

- Guarantees immediate stability of the plasma flow
- Increases the cut start performance and also improves cutting quality
- Increases the life of the torch consumables

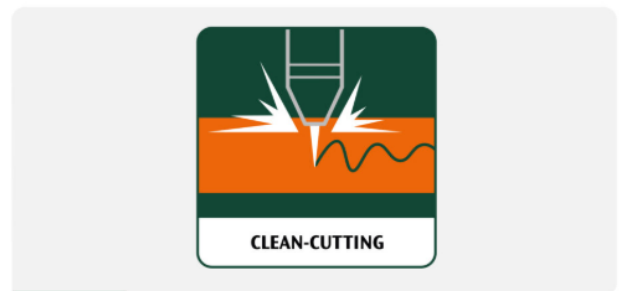


CLEAN CUT

Thanks to this process, it is possible to obtain detailed cuts with air plasma by using the specific Clean-Cut consumables available for the SK/SKM torches. With this process it is possible to replace expensive technologies like laser and waterjet. Clean-Cut consumables produce a narrower cutting width with a more concentrated arc ideal for cutting thinner materials (up to 2mm and up to 45A).

MAIN ADVANTEGES:

- Cutting thin sheets with better quality and without burrs
- Cutting of sheets with minimum tolerances
- Cutting of complex shapes with many details





CS - ORIGINAL SPARE PARTS

CS is CEA guarantee hallmark for CEA PLASMATECH consumables. All original consumables belonging to SK and SKM torches are CS marked to prove the origin. CS mark, present on all consumables, is the guarantee that all declared performances can be achieved thanks to CEA high quality production and experience. The use of CS consumables is strictly recommended for avoiding:

- Overheating and damage to the torch and power source
- Poor performance and worsening in cutting quality
- voiding of CEA warranty



HIGH QUALITY MECHANIZED TORCH

SKM torches are the result of years of CEA research to improve the performance of the plasma cutting, thus increasing its control and its thermal efficiency. The main advantages are:

- high cutting speed
- optimal quality and cleanliness of the cut surface
- high concentration of the plasma cutting beam
- lack of dross
- reduction in the heat affected zone
- longer life of the consumables
- piercing on lamination achieved in shorter times
- coaxial cable for a great flexibility and robustness

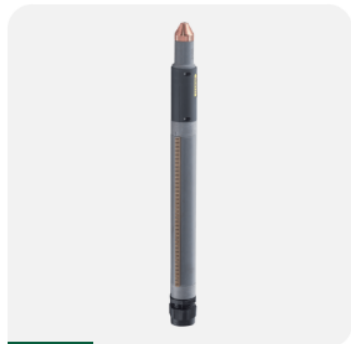


CEA CAPSULES

The new CEA's plasma capsules allow you to take control of your cut saving you time and reduce set up mistakes with this innovative consumable management. A single cartridge contains a shield cap, external nozzle, nozzle, swirl rig and electrode ready to be used as soon as they are plugged in. Thanks to the immediate colour differentiation it's possible to never miss the right combination of consumable for your specific application automatic cutting, manual cutting or gouging. All CEA plasma capsules are compatible and interchangeable with our current SK/SKM torches without the need of any adaptor.

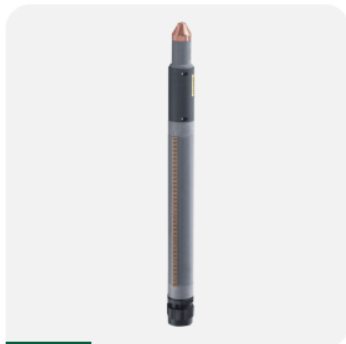
Available accessories

DISCOVER ALL AVAILABLE ACCESSORIES



SKM 125 6M

022074



SKM 125 12M

022081



COMPRESSED AIR FILTER

427529



FILTER CARTRIDGES

427530

Datasheet

SHARK 125-M: TECHNICAL FEATURES

TECHNICAL DATA			SHARK 125-M
Input Voltage 50/60 Hz		V	400-3ph
Input Power @ I ₂ max		kVA	21
Delayed Fuse (I ₂ @ 100%)		A	32
Power Factor / cos φ			0,89/0,99
Efficiency Degree		%	88
Current range		A	25 ÷ 120
Duty Cycle (40°C)	100%	A	100
	60%	A	120
	X%	A	–
Motorgenerator requirement for full capacity		kVA	40
Cutting Capacity	Quality	mm	30
	Production	mm	35
	Maximum	mm	45
	Piercing	mm	25
Cutting power		KW	21
Gas supply			Air / N ₂
Gas Pressure		bar	5,0 – 6,0
Gas Flow		l/min	280 ÷ 330
Protection Class		IP	23 S
Dimensions (LxWxH)		mm	515 x 290 x 730
Weight		kg	48



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