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CEA

PLASMATECH

made in italy
SINCE 1950

SHARK 105

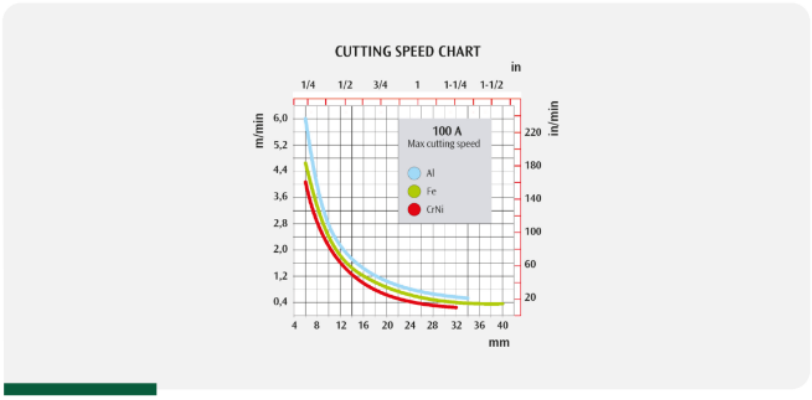
PLASMA CUTTING 100 A

SHARK 105 absolutely grants high productivity in the toughest cutting operations without any compromise

Powerful, robust and compact, SHARK 105 absolutely grants high productivity in the toughest cutting operations without any compromise: cuts are always precise and ensure the highest cutting results in all applications.
Top cutting quality at high speed by means of SK125 HPC High-Performance-Cutting technology torch, granting a powerful and concentrated cutting beam. Smart Start Transfer and Smart End Cutting functions permit both initial and final cutting phases in the best way.

Main benefits

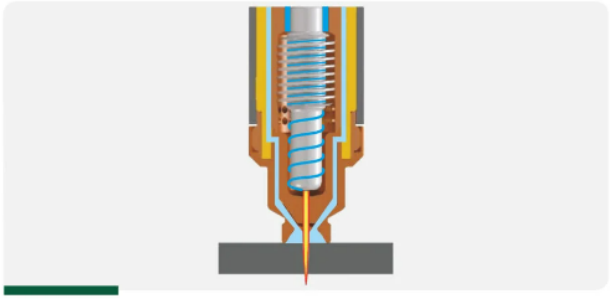
- SK125 torch with HPC High Performance Cutting technology and coaxial cable
- Powerful, compact and light, only 24 Kg
- More productivity thanks to high quality and cutting speed
- Reduced operating costs granted by longer life of the consumable parts



Other characteristics

- 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
- “Energy Saving” function to operate the power source cooling fan only when necessary
- Cutting parameter stability within ±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



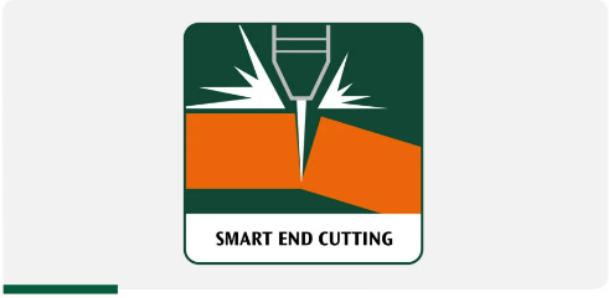
HIGH PERFORMANCE CUTTING - HPC

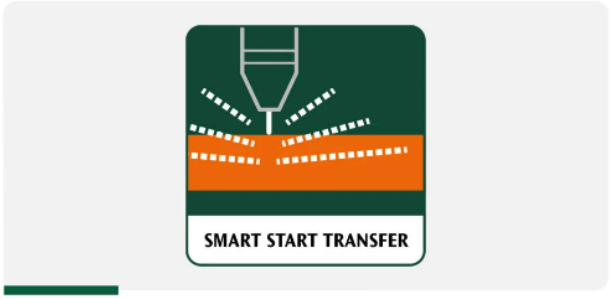
HPC permits the generation of radial and swirling gas flows to the cutting arc axis, thus creating a plasma beam that melts and vaporizes the surface for cutting in a more efficient way. This technology also avoids the phenomenon of the double arc by ensuring the highest quality and the best cutting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

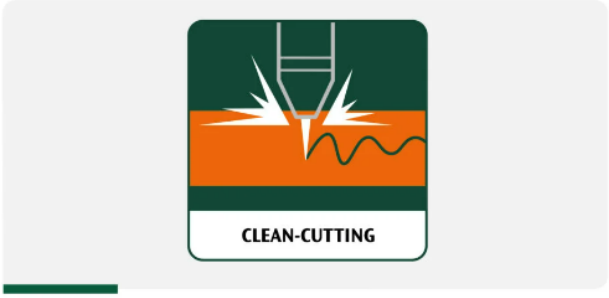
Innovative electronic circuit that allows an optimal and gradual transfer of the pilot-arc in the main arc, during the start of the cutting arc.
Compared to a traditional system of arc transfer, it has the following advantages:

- 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



GOUGING

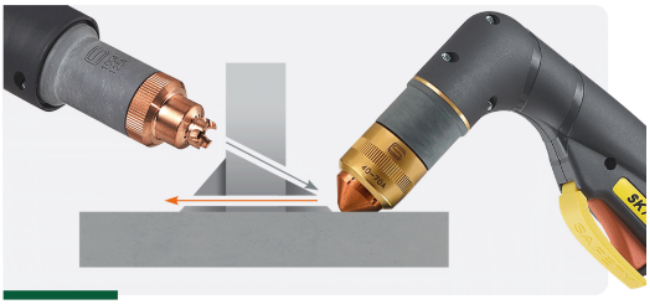
Plasma gouging is the fastes and cheaper metal-removing system ever. Compare to traditional gouging by carbon-electrode, it has the following plus-points:

- Easy to do, fast and for every conductive-metal
- Low cost operation
- Does not require any trained and skilled operators
- Enables to clearly see the gouging area

Typical applications for plasma arc gouging are: Removals of cracks – Repairing of mild steel, aluminium and stainless tanks – Pipe and fixture edge preparation

PLANE CUT

Thanks to the dedicated plane cutting capsule, you can easily remove fins, nuts or plates without damaging the workpiece. The optimized plasma flow ensures consistent and precise cutting power throughout the entire operation.



HIGH QUALITY MANUAL TORCH

SK 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

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

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

SK 125 6M
022028

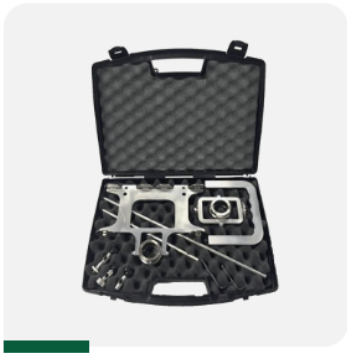
SK 125 12M
022035

BASIC KIT BOX SK125
343957

COMPRESSED AIR FILTER
427529

COMPASS
418487

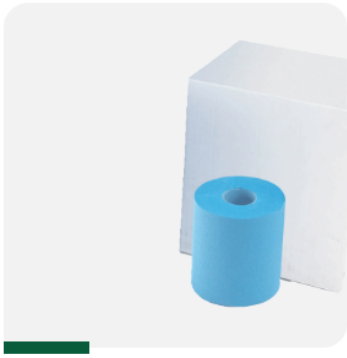
WHEELED TORCH HOLDER
410684



BEVEL TOOL KIT
418508

TROLLEY CTP 10
234926

STARTING KIT SK125
343963



FILTER CARTRIDGES
427530

PLASMATECH

Datasheet

SHARK 105: TECHNICAL FEATURES

TECHNICAL DATA			SHARK 105
Input Voltage 50/60 Hz		V	400-3ph
Input Power @ I_2 max		kVA	15
Delayed Fuse (I_2 @ 100%)		A	16
Power Factor / cos φ			0,90/0,99
Efficiency Degree		%	89
Current range		A	20 ÷ 100
Duty Cycle (40°C)	100%	A	70
	60%	A	90
	40%	A	100
Motorgenerator requirement for full capacity		kVA	30
Cutting Capacity	Recommended	mm	30
	Maximum	mm	35
	Severance	mm	40
	Piercing	mm	20
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	390 x 185 x 595
Weight		kg	24

WELDING TOGETHER

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