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CEA

PLASMATECH

made in italy
SINCE 1950





SHARK 155

PLASMA CUTTING 150 A

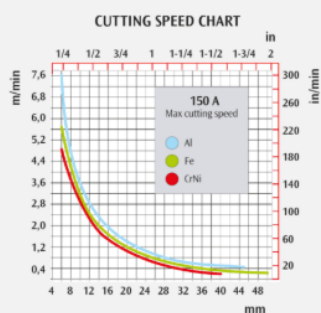
SHARK 155 is the most powerful machine in the range, it ensures extremely high quality cutting results

With its stunning cutting force, SHARK-155 is the most powerful machine in the range. Robust and precise, it ensures extremely high quality cutting results also on very large thickness. Equipped with a display for the digital control of all the parameters, it grants the highest cutting quality at high speed by means of SK165 HPC High-Performance-Cutting technology torch, which combines the concentrated cutting beam to high power.

Smart Start Transfer and Smart End Cutting functions permit both initial and final cutting phases in the best way.

Main benefits

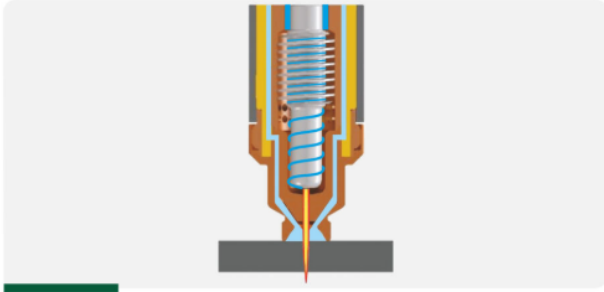
- SK165 torch with HPC High Performance Cutting technology and coaxial cable
- Digital display for the digital control of all parameters
- Very high cutting power
- More productivity thanks to high quality and cutting speed



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 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

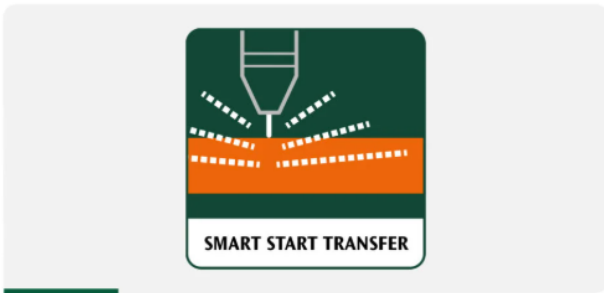


SMART START TRANSFER

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



GOUGING

Plasma gouging is the fastest and cheaper metal-removing system ever. Compared 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





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 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

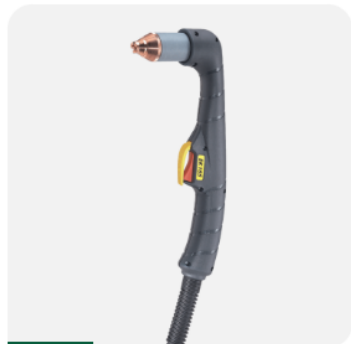


CEA CAPSULES

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.

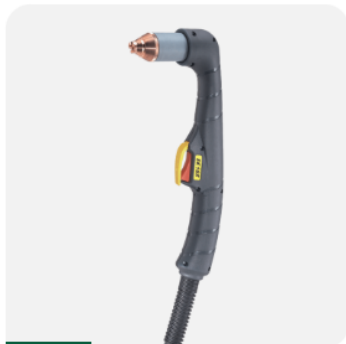
Available accessories

DISCOVER ALL AVAILABLE ACCESSORIES



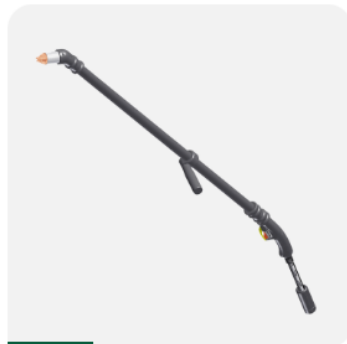
SK 165 6M

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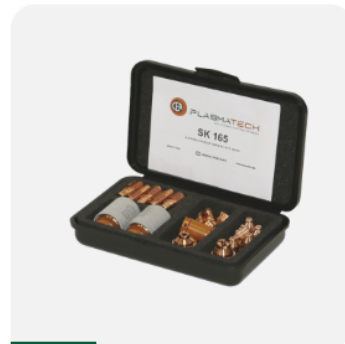
SK 165 12M

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SK 165 XL

022083



BASIC KIT BOX SK165

343958



STARTING KIT SK165

343059



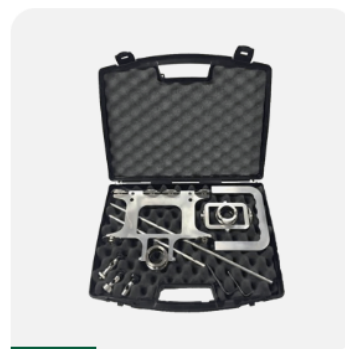
COMPASS

418488



WHEELED TORCH HOLDER

410686



BEVEL TOOL KIT

418507



TROLLEY CTP 15

234927



COMPRESSED AIR FILTER

427529



FILTER CARTRIDGES

427530

Datasheet

SHARK 155: TECHNICAL FEATURES

TECHNICAL DATA			SHARK 155
Input Voltage 50/60 Hz		V	400-3ph
Input Power @ I ₂ max		kVA	27,5
Delayed Fuse (I ₂ @ 100%)		A	32
Power Factor / cos φ			0,89/0,99
Efficiency Degree		%	88
Current range		A	25 ÷ 150
Duty Cycle (40°C)	100%	A	100
	60%	A	120
	30%	A	150
Motorgenerator requirement for full capacity		kVA	50
Cutting Capacity	Recommended	mm	45
	Maximum	mm	50
	Severance	mm	60
	Piercing	mm	25
Gas supply			Air / N ₂
Gas Pressure		bar	5,0 – 6,0
Gas Flow		l/min	360 ÷ 410
Protection Class		IP	23 S
Dimensions (LxWxH)		mm	515 x 290 x 730
Weight		kg	48



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