



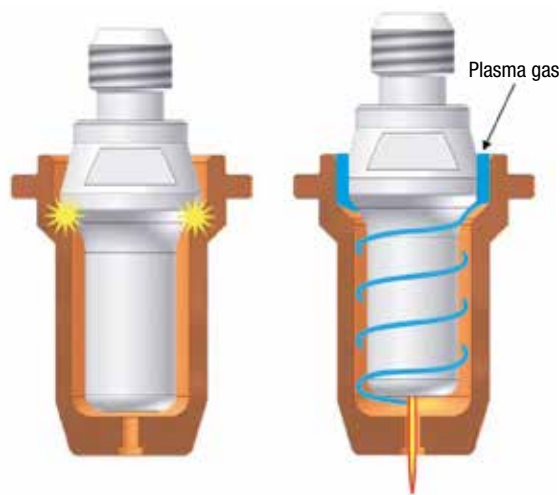
Torch Technology

Back Striking

Back striking represents the best solution for plasma torches up to 60A. In conventional torches without high frequency, the arc striking is obtained by means of compressed air which moves away the electrode head from the inner part of the nozzle. This system causes, in the plasma flow exit area, both electrode and nozzle material deterioration because of burns and deformations subsequent to pilot arc striking between them. In contrast, the back striking system takes place in the rear side of the electrode and nozzle, thus leaving clean and unaltered the flow exit area.

MAIN ADVANTAGES

- Longer life of the consumables
- Striking is always precise and safe
- Better cutting quality over time



High Performance Cutting

High Performance Cutting technology permits the generation of radial and swirling gas flows to the cutting arc axis, thus creating a plasma beam at a very high temperature that melts and vaporizes the surface being cut in a more efficient way. This technology also avoids the phenomenon of the double arc – formation of two arcs in series between the cathode and the workpiece surface – the main reason for damage to the nozzle and arc instability by ensuring the highest quality and the best cutting performance, together with a longer life of the consumables.

High Performance Cutting technology is the very best choice for plasma torches with nominal cutting currents above 60A. New 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. This is achieved by easily removing the molten material with a consequent improvement of the cutting quality, which shows neat cuts, lack of dross, minimal heat-affected zone and sufficiently squared edges.

MAIN ADVANTAGES

- Better cutting quality
- High cutting speeds
- Narrower cuts
- Longer life of the consumables

