

What is Silent Cut?

Silent Cut is a further development of the proven and patented Contour Cut technology for the cutting of mild steel and is characterized by a reduced sound pressure level. The new technology can be used for the power range from 60 to maximum 160 A and mild steels with a thickness from 0.135 to 1 1/4 inch. Thanks to intensive development work it has been possible to achieve a still high cutting quality with lower noise exposure at the same time. Silent Cut is realized by a unique combination of new wear parts and new cutting parameters and can be used with already existing Smart Focus, HiFocus neo and Q units.



The reduction of the sound level by 10 decibels is already perceived by human hearing as a halving of the loudness.

* For a sound level measurement at a distance of 3 feet from the plasma system; single, short-term noise peaks are not taken into account.

What are the benefits of Silent Cut?

Due to the high energy density and flow velocity of the plasma arc, higher sound levels occur during high-quality plasma cutting which are perceived as loud and disturbing for the human hearing, particularly in the upper frequency range. Depending on the power and material thickness, the noise exposure occurring during plasma cutting can be more than 100 dB(A). The Silent Cut technology reduces the overall sound pressure level by up to 15 dB(A)*. Even the high frequencies perceived as particularly disturbing are considerably reduced. This ensures a better work environment and thus makes an important contribution to health and safety at work in your company.

What are the differences between Silent Cut and Contour Cut?

With Silent Cut you can cut mild steel with similarly high quality as with Contour Cut. Contours, holes and bars are cut with great precision and accuracy – but with a significantly lower sound pressure level. You have the choice.

How can I use Silent Cut?

Silent Cut is available for all Smart Focus, HiFocus neo and Q units. Just replace the corresponding wear parts and benefit from Silent Cut. You can find all necessary parameters in the Silent Cut cutting database.

Do you have any questions or would you like to receive further information?

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