WiseFusion

OPTIMIZED WELDING FUNCTION FOR QUALITY, SPEED AND EASE OF USE

29.03.2024

KEMPPI

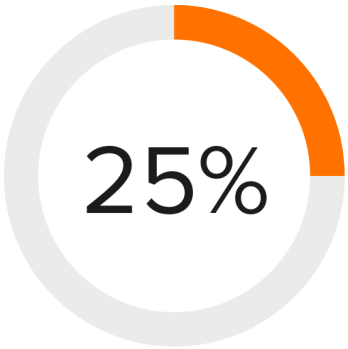
Designed for welders

WiseFusion

OPTIMIZED WELDING FUNCTION FOR QUALITY, SPEED AND EASE OF USE

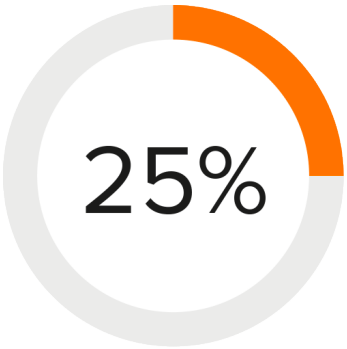
WiseFusion optimized welding function produces a very narrow and energy dense welding arc making welding faster and heat input lower. Focused penetration area allows the welding of narrow and deep grooves. WiseFusion results in excellent penetration without a risk of undercut. Narrower arc also facilitates weld pool control in position welding. WiseFusion ensures optimum arc length eliminating the need for constant parameter settings. Adaptive and automatic arc length regulation maintains the arc always within the short circuit boundaries and raises your arc-on time.

KEY BENEFITS



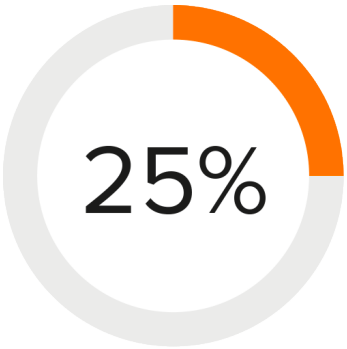
MORE WELD

With pulsed WiseFusion



SAVING IN GROOVE AREA

When combining WiseFusion and WisePenetration



LOWER HEAT INPUT

Than in traditional MIG/MAG welding processes, delivering savings in rework costs

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BENEFITS

- Higher welding speed
- Lower heat input resulting in less distortion and better mechanical properties of the weld
- Possibility to weld narrower and deeper grooves
- Excellent weld pool control in position welding
- Easy to weld in all positions
- Automatic arc length control granting always the right parameters
- Easy to use
- Uniform weld quality

PRODUCT OPTIONS

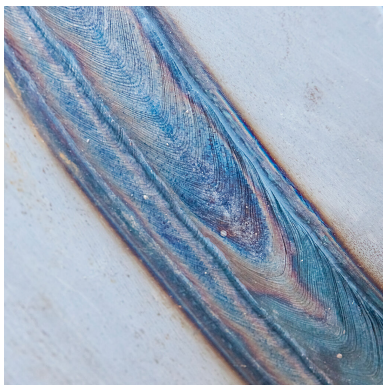
WiseFusion

A welding function that ensures consistent weld quality in all positions by automatically regulating arc length. Creates and maintains an optimal short-circuit characteristic in pulsed MIG/MAG and spray-arc welding.

WiseFusion-A

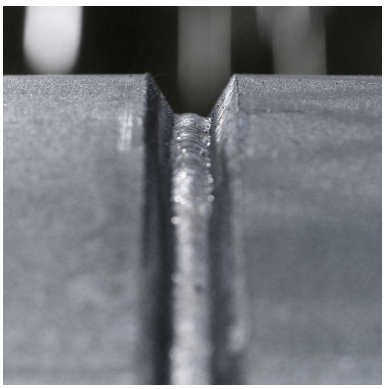
Kemppi Wise welding function for automated welding.

FEATURES



Weld 25% more per year

WiseFusion makes it possible to weld at a significantly higher speed, providing the same quality level and throat thickness as with a conventional spray and pulse arc. Synergic fusion is 20% faster than 1-MIG and pulsed fusion, and even 38% faster than conventional pulse welding.



Gain over 25 % annual savings in filler material

Combine WiseFusion with WisePenetration and you can narrow the groove angle for example by 26%, from 45 to 30 degrees. This way fewer welding runs are needed to complete the joint, which results in reduced welding time and less filler material is required.

Minimized heat input

The high energy density of WiseFusion minimizes heat input, which improves impact toughness with high-strength steels and reduces deformation, thus reducing the need for straightening.

TECHNICAL SPECIFICATIONS

WiseFusion-A

Product code	A7500000 (A7 MIG Welder), 9991015

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Kemppi is the design leader in the arc welding industry. We are committed to boosting the quality and productivity of welding by continuous development of the welding arc and by working for a greener and more equal world. Kemppi supplies sustainable products, digital solutions, and services for professionals from industrial welding companies to single contractors. The usability and reliability of our products is our guiding principle. We operate with a highly skilled partner network covering over 70 countries to make its expertise locally available. Headquartered in Lahti, Finland, Kemppi employs close to 800 professionals in 16 countries and has a revenue of 195 MEUR in 2022.

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