WiseThin

INCREASE WELDING SPEED AND ACHIEVE BETTER QUALITY

29.03.2024

KEMPPI

Designed for welders

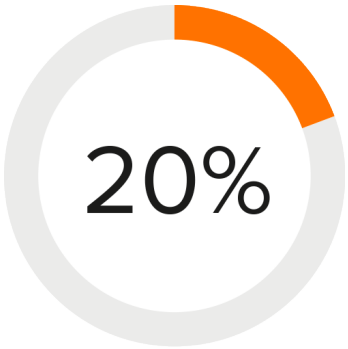
WiseThin

INCREASE WELDING SPEED AND ACHIEVE BETTER QUALITY

WiseThin is a tailored cold arc process for manual and automated thin sheet welding and brazing. Typical applications include automotive manufacturing and quality light plate fabrication in ferrous and stainless steel materials.

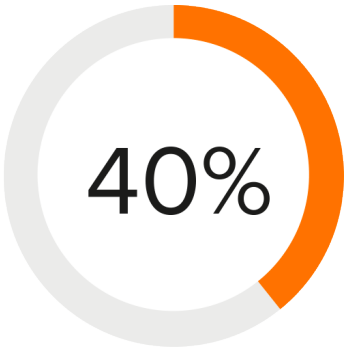
WiseThin+ is a tailored cold arc process for manual and automated thin sheet welding. The WiseThin+ process is based on precise voltage measurement and current control. Mixed gas welding characteristics with pure CO?. Expands the parameter window and thus reduces the need to use smaller wire diameters. Soft and pleasant arc characteristics. Excellent welding characteristics for welding plate thicknesses 0.8…3.0 mm. Reduces heat input and thus also deformation. Excellent arc ignition for tack and intermittent welds.

KEY BENEFITS



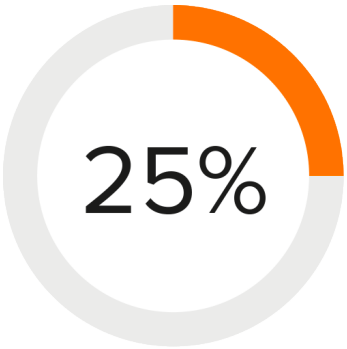
FASTER

Compared with traditional short arc welding



LOWER SHIELDING GAS COSTS

Due to a possibility to use CO?



LESS HEAT INPUT

And therefore less deformation and less after-work

BENEFITS

- Higher welding speed than in traditional shot arc welding
- High quality welds, reduced post weld rework
- Lower heat input and thus also less deformation
- Decreased amount and size of spatters
- Stable arc for positional welding for thicker plate thicknesses
- Excellent arc ignition for tack and intermittent welds
- Savings in welding costs as you get mixed gas welding characteristics with pure CO?
- Down hand and all positional welding
- Easy to make short welds because of accurate arc control
- Suitable for brazing
- Expands the parameter window and thus reduces the need to use smaller wire diameters
- Soft and pleasant arc characteristics
- Easy to use

PRODUCT OPTIONS

WiseThin

Short arc process for sheet metal welding. WiseThin produces easily controllable and spatterless arc thanks to the digital control of the welding parameters in any position, even in case of wider caps and gap variations. Also available for automated welding.

WiseThin+

Optimized short arc process suitable for welding sheet metals and thicker plates in position welding, even in case of wider gaps and gap variations. Produces a spatterless arc with precise digital control.

WiseThin-A

Kemppi Wise welding process for automated welding.

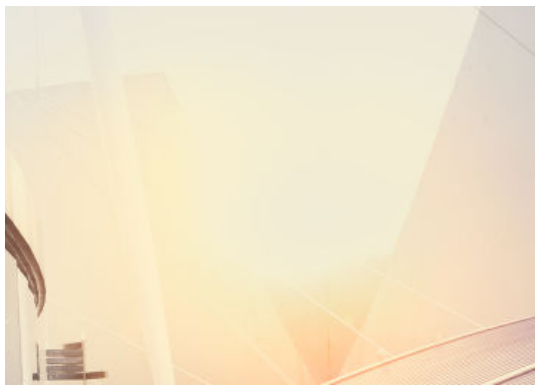
WiseThin+-A

Kemppi Wise welding function for automated welding.

FEATURES

20 % faster welding with WiseThin+

WiseThin+ welding gives excellent welding characteristics for position welding in thicker plates. The arc is steady and easy to handle and the arc sound is uniform all the time because of stable short circuiting. The weld pool flows to the joint smoothly and there is no risk of undercutting. As a result there are no spatters. Position PF, 1.2 mm Fe solid wire, Ar+ CO? or CO? shielding gas, Plate thickness 6.0 mm + 6.0 mm, Wfs = 2.65 m/min → I = 105 A and U = 18.5 V, Fine tuning setting +1.5.



Save 40% in shielding gas costs

With the WiseThin+ optimized welding process you can weld with CO? shielding gas, and still get the same quality as with mixed gas. This creates 40% savings in gas costs.

TECHNICAL SPECIFICATIONS

WiseThin-A

Product code	9991013

WiseThin+-A

Product code	9990419 (A7 MIG Welder)

WWW.KEMPPI.COM

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.

KEMPPI