

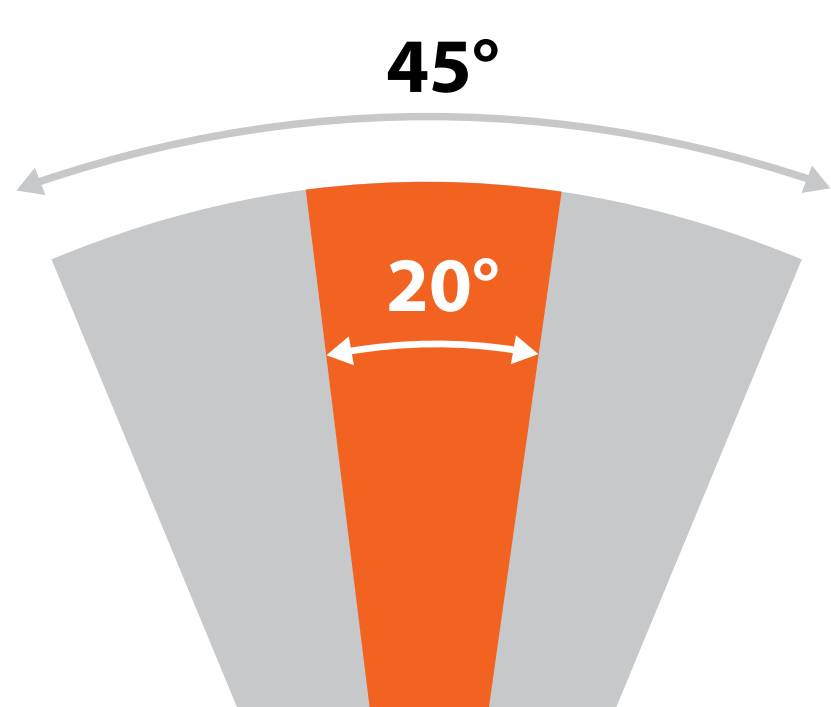
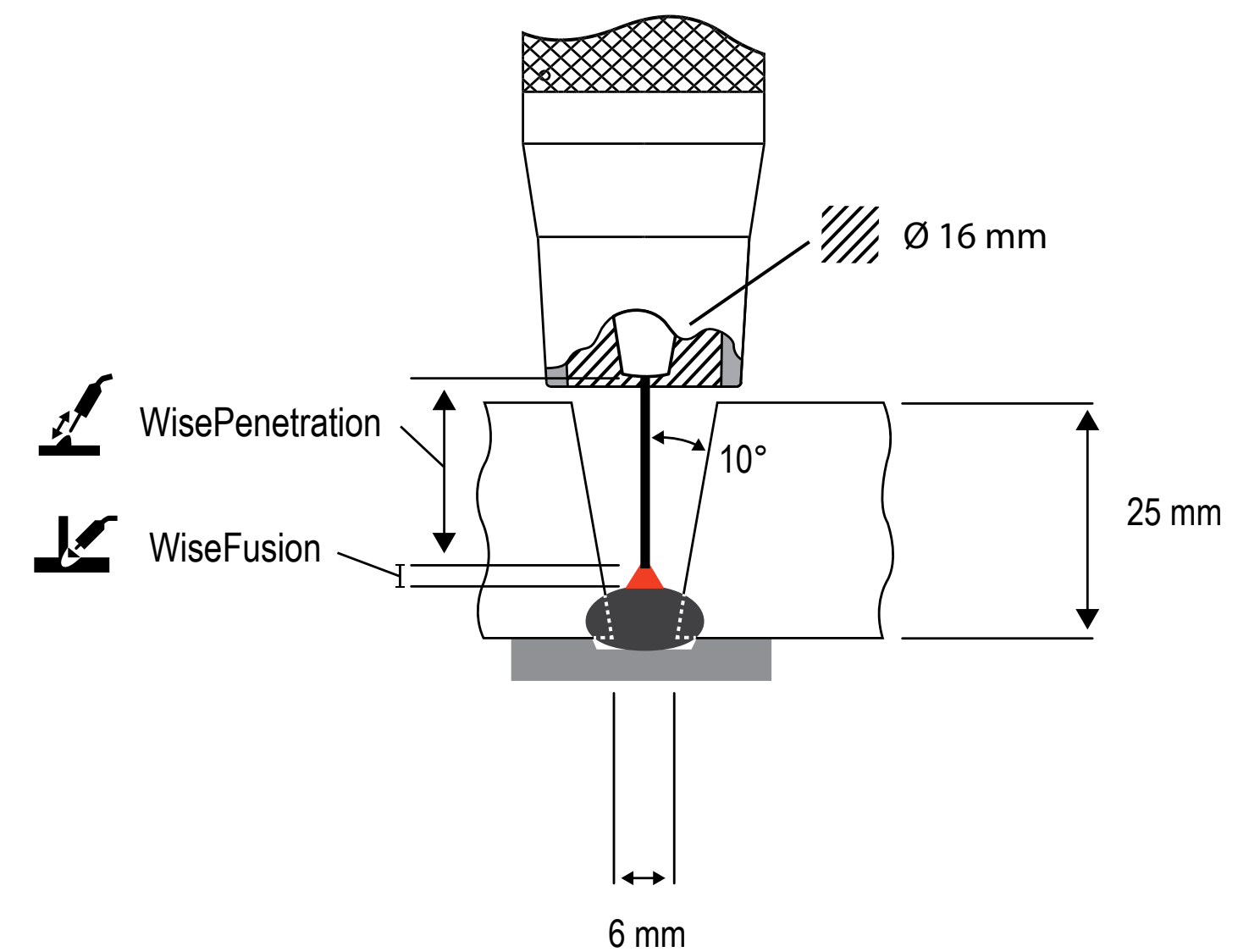
What does RGT mean?

Reduced Gap Technology (RGT) is an intelligent welding solution designed by Kemppi. It enables reliable narrow gap welding of materials with thicknesses up to 30 mm, without the need for special equipment or accessories.

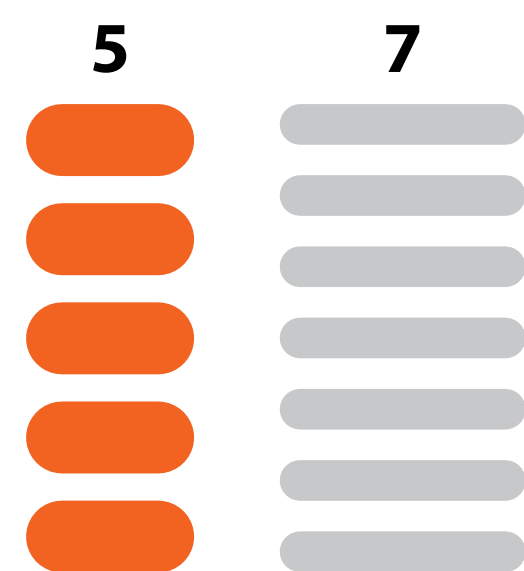
WisePenetration keeps the arc power consistent, regardless of variations in the contact-tip-to-work distance.

WiseFusion provides adaptive regulation that keeps the arc focused and optimally short.

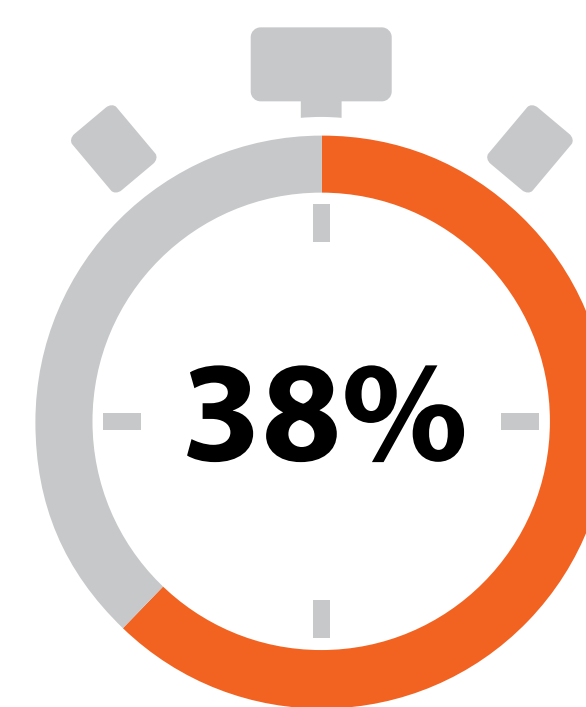
Both of these functionalities are combined in the **WisePenetration+** function available in the X8 MIG Welder.



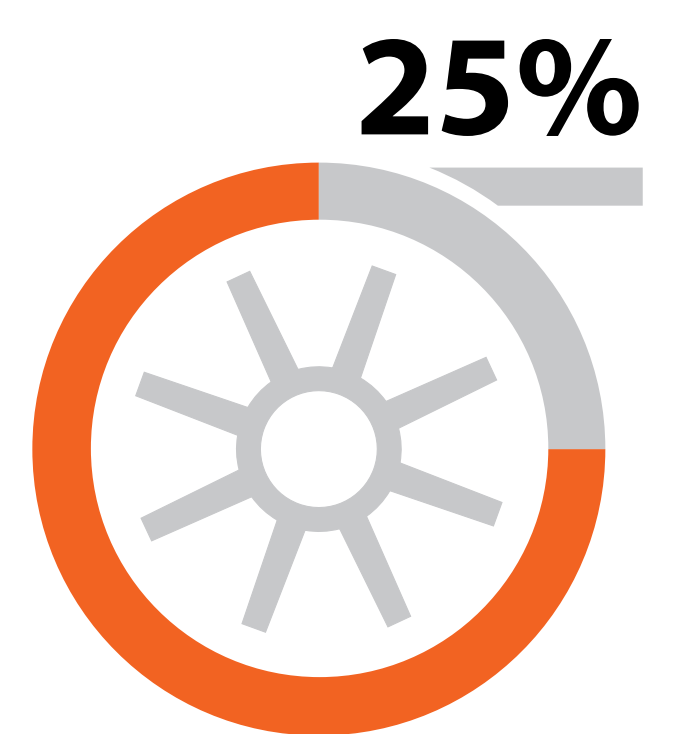
Groove angle reduced to 20°



Less weld passes



Savings on arc time



Less filler material

COST SAVINGS EXAMPLE*

FILLER MATERIAL CONSUMPTION

Groove volume, 45° groove: **372 mm²**

Groove volume, 20° groove: **281 mm²**

Difference = **91 mm²**

Filler material savings 25 %

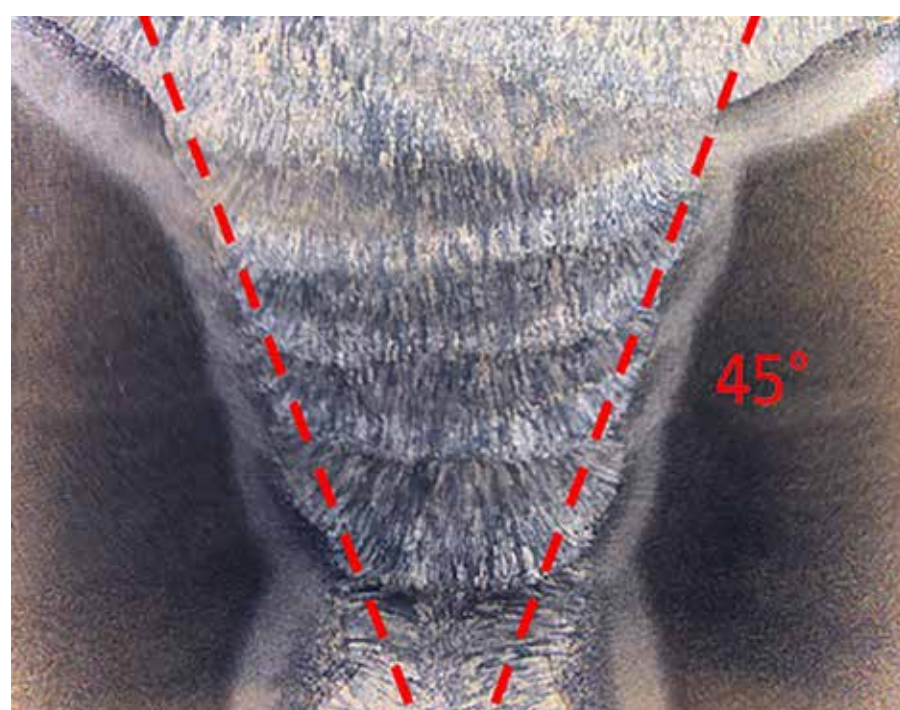
ARC-ON TIME

Arc-on time, 45° groove: **810 s**

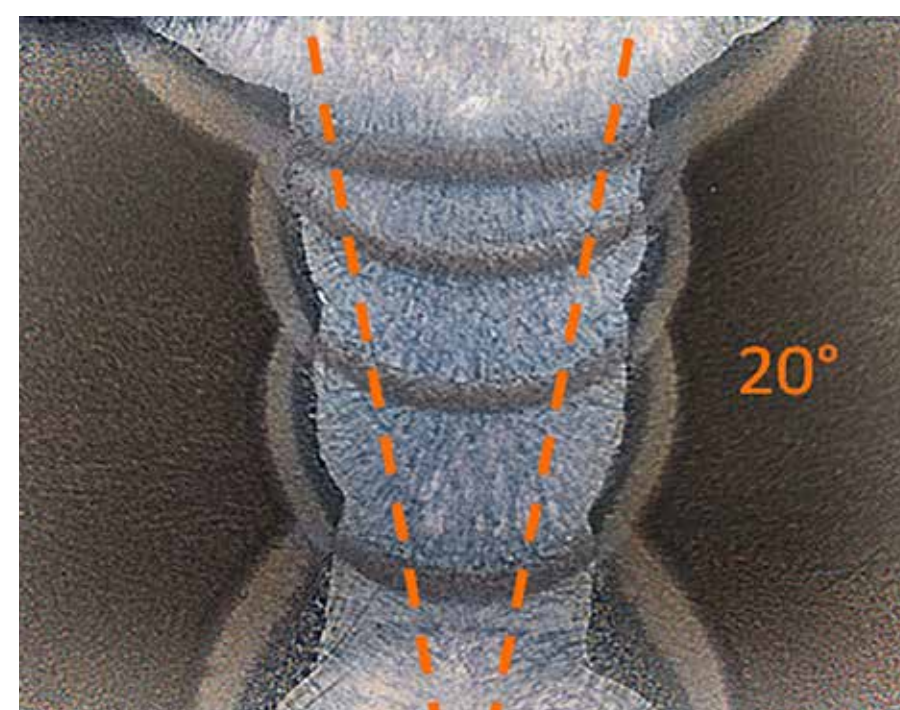
Arc-on time, 20° groove: **505 s**

Difference = **305 s**

Arc time savings 38%



Traditional
7 weld passes



RGT
5 weld passes

*A preliminary WPS and detailed calculations can be found in the white paper "Kemppi's Reduced Gap Technology (RGT) challenges conventional joint design principles".