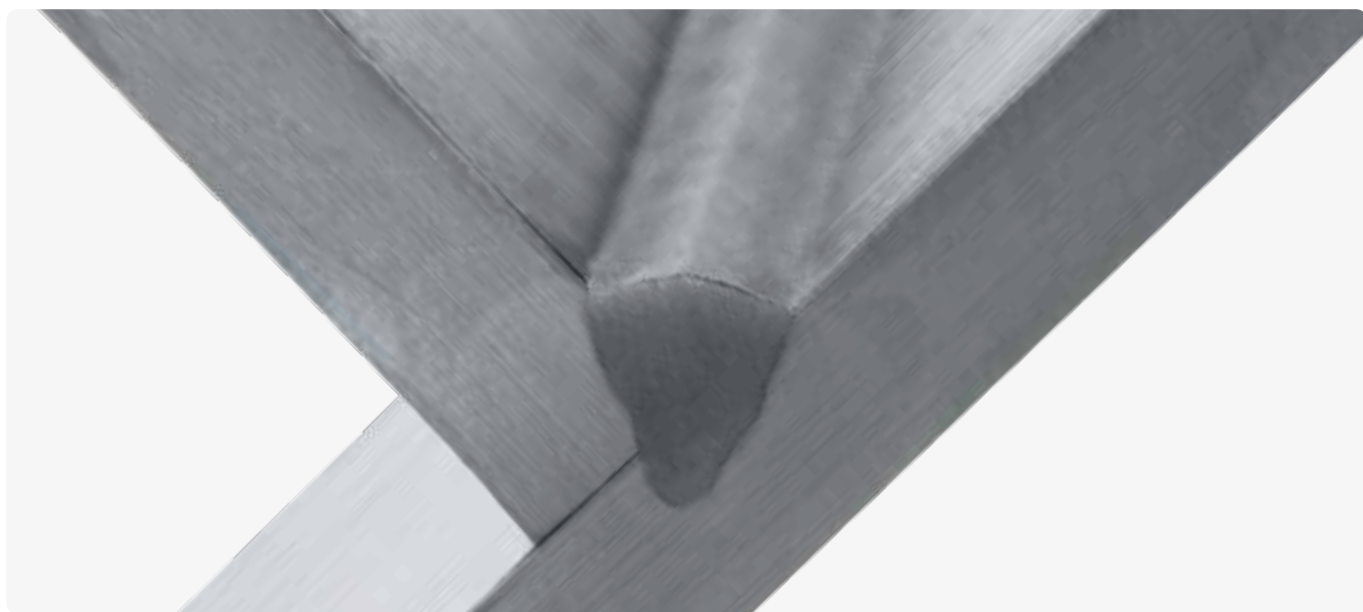


✓ DeepARC

30 % DEEPER PENETRATION

100 % FASTER WELDING

100 % NO SPATTER ADHERENCE



DeepARC-Process

1 30 % DEEPER PENETRATION

- Deeper penetration due to high arc pressure
- Guaranteed root penetration
- Short, concentrated narrow arc



Standard
MIG/MAG



DeepARC

2 100% FASTER WELDING

The DeepARC process allows up to 100 % higher welding speeds compared to the standard MIG/MAG arc.

Examples (wire: 1.2 mm):

Mild steel: $d = 6 \text{ mm}$, $v_s = 1,7 \text{ m/min}$

Stainless steel: $d = 2 \text{ mm}$, $v_s = 2,0 \text{ m/min}$

Aluminium: $d = 3 \text{ mm}$, $v_s = 1,4 \text{ m/min}$



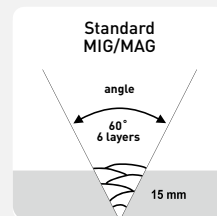
3 100% NO SPATTER ADHERENCE

- Small, low-energy welding spatters
- No adherence of the spatters

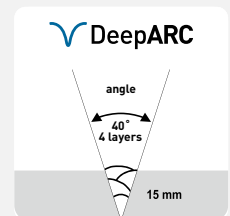


4 REDUCED QUANTITY OF WELDING LAYERS

- Due to deeper penetration the preparation angle can be reduced
- Reduced costs for material preparation
- Less filler wire and less gas are needed



Standard
MIG/MAG



DeepARC

5 PERFECT ROOT PENETRATION

- High arc pressure
- Welding with root penetration
- No undercut



6 NO UNDERCUT

- Reduced heat input at the outer edges of the welded zone
- Low re-inforcement
- Nearly no undercut, not depending on the torch angle



DeepARC