

The Advantages of Hobart® FabCOR® Metal Cored Wire

Increased Deposition Rate

FabCOR wires offer a typical deposition rate improvement of 15 to 20% compared to optimized solid wire procedures. Use FabCOR's increased deposition rates to **increase welding travel speeds** and/or reduce weld passes.

Decreased Heat Input

FabCOR wires provide a typical heat input reduction of 10 to 20% compared to optimized solid wire procedures. Use FabCOR's decreased heat input to **reduce distortion** caused by excessive heat input, time spent performing post-weld part straightening, and **reduce the risk of burn-through** during welding.

Improved Gap Bridging

FabCOR wires are typically capable of bridging gaps 10 to 15% larger than solid wires using optimized procedures. Use FabCOR wire to **reduce time spent performing part rework** and correcting minor fit-up issues.

Left: Cross-section of a flare-bevel weld with a 3mm root-opening made using solid wire

Right: Cross-section of a flare-bevel weld with a 3mm root-opening made using FabCOR wire

Improved Penetration Profile

FabCOR wires offer a wider, shallower penetration profile compared to solid wire at similar welding parameters. Use FabCOR wire to **help minimize risk of lack of fusion defects** at joint sidewalls.

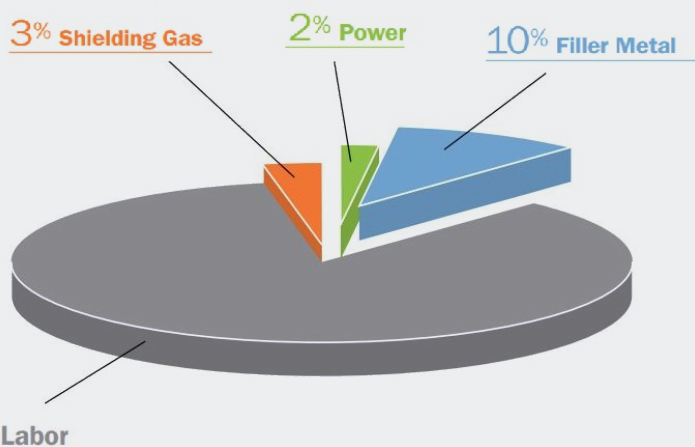
Improved Bead Contour

FabCOR wires typically produce weld beads with a flatter bead contour, especially when welding over mill scale.

Simplify Your Operation

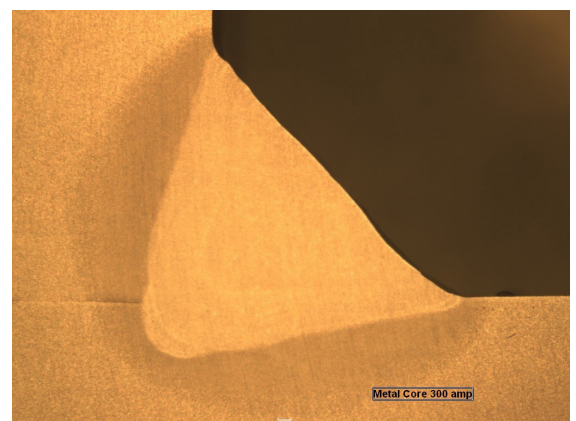
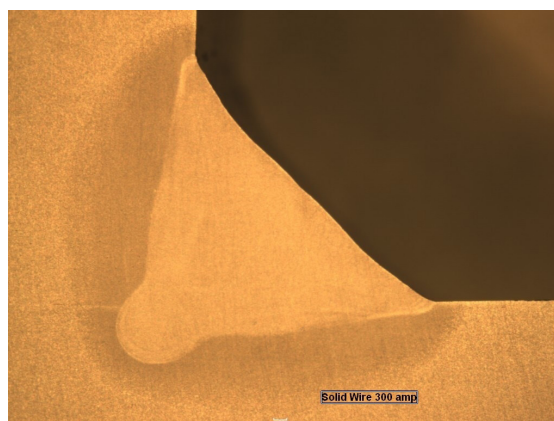
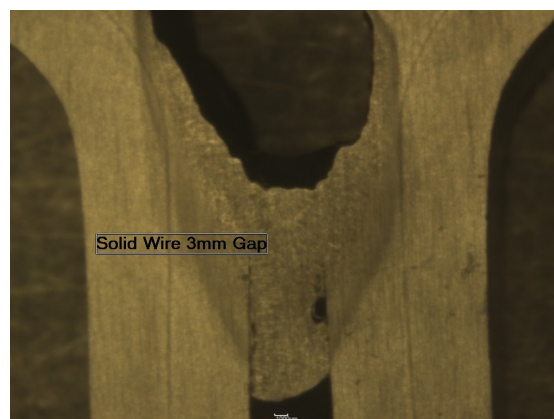
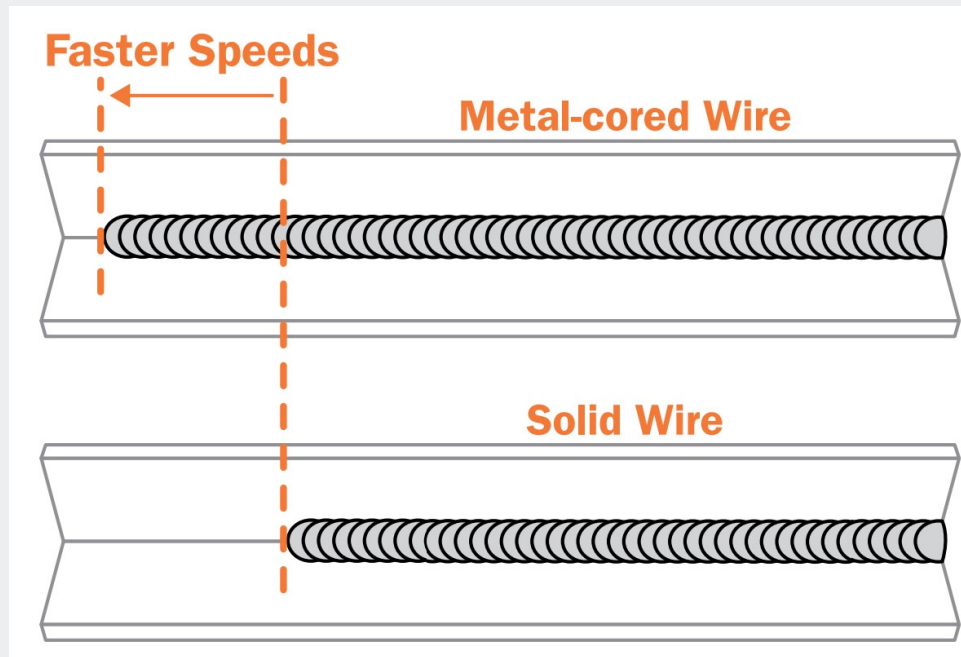
FabCOR wires can help eliminate or **minimize non-value-added arc-off activities** such as:

- **Pre-weld** base metal preparation (ex. grinding)
- **Pre-weld** correction of joint fit-up (ex. clamping, re-tacking, etc.)
- **Post-weld** weld bead cleaning
- **Post-weld** rework due to burn-through, distortion, or poor bead profile/contour



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Top Left: Cross-section of a fillet weld made using solid wire at 300 amps

Top Right: Cross-section of a fillet weld made using FabCOR wire at 300 amps

Bottom Left: Cross-section of a fillet weld made using solid wire at 21 ipm over mill scale.

Bottom Right: Cross-section of a fillet weld made using FabCOR wire at 21 ipm over mill scale

<<< FabCOR Wires Reduce Weld Cost

The cost of Labor & Overhead is approximately 85% of typical weld cost. **Make the most of it with FabCOR metal cored wires.** Improve welding travel speeds and reduce weld cost by eliminating inefficiencies in pre-weld and post-weld activities. FabCOR wires have been shown to provide significant improvements in controlled laboratory experiments and numerous customer case-studies. **Learn more about FabCOR metal cored wires** by contacting Hobart's Application Engineers by phone at 1-800-532-2618 or by e-mail at Applications.Engineering@HobartBrothers.com

