

# AWC - Advanced Weld Control

Through-The-Arc Tracking for Heavy Welding

MAIN APPLICATIONS  
Arc Welding



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## Through-The-Arc Tracking for Heavy Welding

Are you doing heavy welding? Large plate, large pieces? Off-road construction or mining equipment? Forklifts? Railroad parts? Thick plate?

If so, you know that your piece parts don't always have the close tolerances needed for trouble-free robotic welding. And even if you have some type of adaptive control, and the best of welding fixtures, this won't always compensate for the day-to-day variations in joint fit.

Producing consistent, high quality welds under these conditions, while maintaining production throughput, can be a real nightmare.

### Advanced Weld Control

ABB has the solution for you! Advanced Weld Control. It just may be a dream come true.

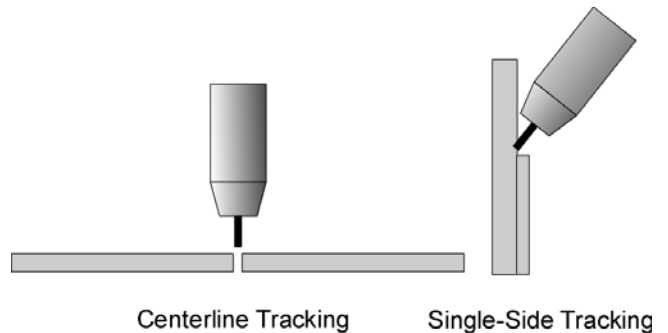
With AWC, we've raised the bar on through-the-arc welding technology. You can now have multi-axes, external axes robotic welding and through-the-arc joint tracking all monitored and controlled in one packaged system.

### Centerline Tracking

AWC handles "centerline" welding better than any known through-the-arc tracking system. Through-the-arc tracking has never been better for welding difficult joints and thinner materials. Improved performance from the systems trend monitoring and rapid response are critical to maintaining an accurate weld path. With AWC the welding arc impedance is measured at both sides of the robot's weave width. As the torch weaves across the weld joint the robot path adjustments are made to ensure the arc stays in the weld joint.

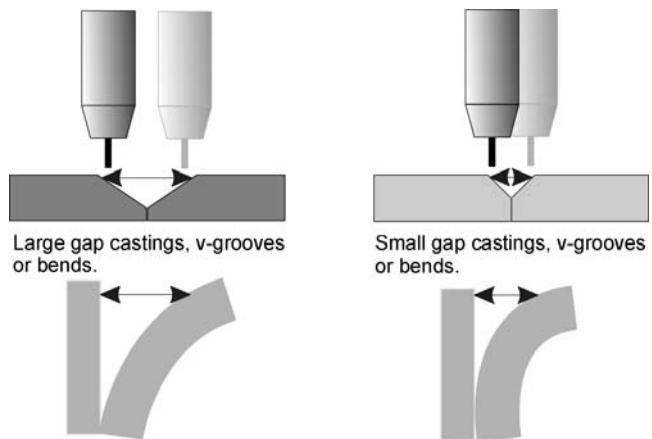
### Single-Side Tracking

Welds that are close to an edge like some lap fillet welds, can be a constant source of frustration when your robot tracks off the edge while looking for a tracking sample where there is no material. AWC can track from a single side, taking data samples off just one wall, to keep your robot working. In addition, you can select the amount of penetration desired to control how far the welding arc "digs" into the workpiece for a strong, quality bond.



### Adaptive (Optional)

AWC will not only identify variations in joint tolerances, but it can also adapt to these variations. If the walls of the joint vary in width, the robot's weave width and welding speed can be changed accordingly.



### Operator Communication

AWC is easily activated through the operator's teach pendant, with the touch of a button. It is here that the operator can access weld data bases which have been created specifically for heavy welding. Voltage, current, travel speed, and other weld parameters can be easily selected from English-type displays and prompts. AWC is super-friendly!

### See It Now

Our lab systems in Fort Collins are now equipped with Advanced Weld Control, the powerful joint tracking system for heavy welding. Call today for detailed information and to arrange for a demonstration.

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**ABB** ABB's Strategic Partner for Arc Welding and Cutting Systems

