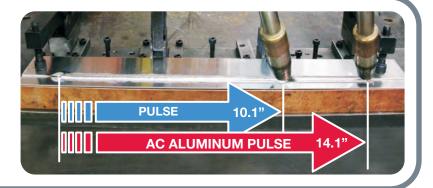
AC Aluminum Pulse Weld Process Overview

AC Aluminum Pulse for superior quality welding*.

- Increases travel speed up to 40%
- Increases deposition up to 75%
- Decreases burnthrough
- Improves gap bridging

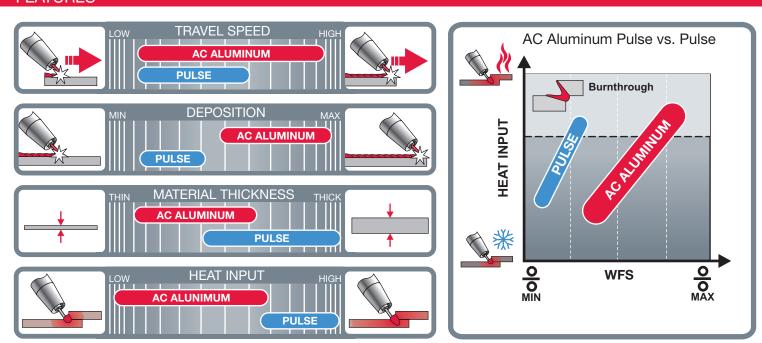


AC Aluminum Pulse (GMAW) brings features that cannot be realized with standard DC pulse MIG welding. The AC pulse process reduces the heat input by focusing the energy away from the base plate and switching the polarity of the arc.

Productivity increases with improved deposition rates using **AC Aluminum Pulse** (GMAW) waveform technology are available exclusively on the Power Wave[®] Advanced Module. This is possible because the **negative polarity** arc redirects the heat away from the workpiece, reducing the chance of burnthrough. The UltimArc[™] and synergic precision controls give the user full control over heat input, penetration while improving cleaning action, and allowing for faster travel speeds on thin material.

With this technology, it is now easier to weld thin aluminum and bridge gaps. Precise control of the heat input is achieved with the UltimArc[™] control using **AC Aluminum Pulse** (GMAW). UltimArc[™] adjusts the amount of DC negative time during the background to allow less heat to be transferred to the workpiece.

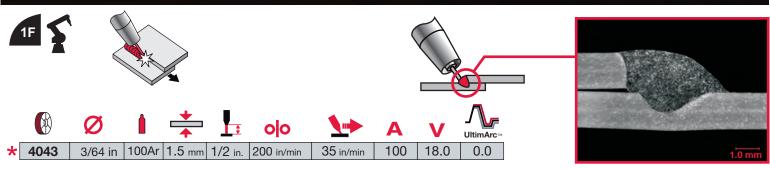
FEATURES



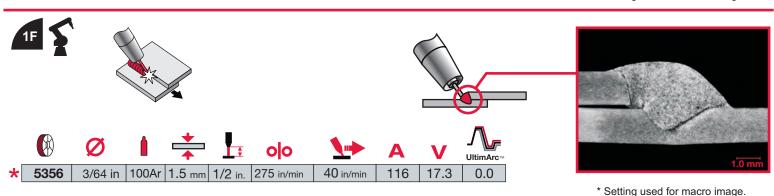
*Based on a side by side comparison of AC Aluminum Pulse and Pulse using a Power Wave® \$350 with SuperGlaze® 4043 3/64" wire on a 1.5mm lap. AC Aluminum Pulse parameters: Mode 393, WFS 215 in/min, Travel Speed 40 in/min, 0.75 Trim and -5 WC. Pulse parameters: Mode 72, WFS 130 in/min, Travel Speed 30 in/min, 0.8Trim and 0 WC.



Applications

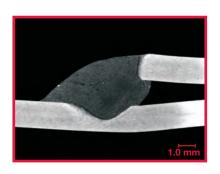


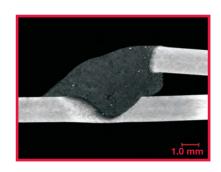
* Setting used for macro image.



Gap Bridging







See the AC Aluminum Pulse weld process guide for: technical data, proper set-up, application settings and troubleshooting.

Recommended Equipment

Power Source

Power Wave® S350, S500 w/ Advanced Module

Wire Feeder

Power Feed® Wire Feeders

Accessories

SuperGlaze® Wire Magnum® Pro Push Pull Gun

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