



A baseline weld was made using automated welding equipment. Voltage, Wire Feed Speed, Travel Speed and Contact-Tip-to-Work Distance were then adjusted individually from baseline weld settings to illustrate how each parameter affects a fillet weld when raised and lowered. Icons in grey indicate the specific parameter adjusted; in the case of amperage, the icon represents the value measured.

Baseline Weld Variables

Wire Type: 0.045 ER70S-6 (Quantum Arc 6)

Shielding Gas: 90% Argon / 10% Carbon Dioxide

Base Metal: 1/8 in. Cold Rolled Carbon Steel **Transfer Mode: Pulsed Spray**

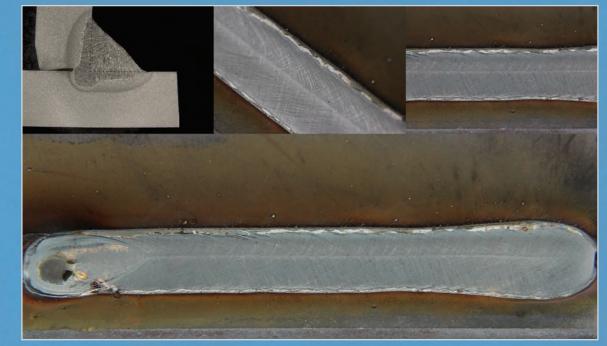
Travel Direction: Forehand (Push)

Nozzle Diameter: 5/8 in.









400 00





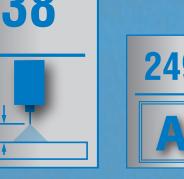








Decreased /oltage 38

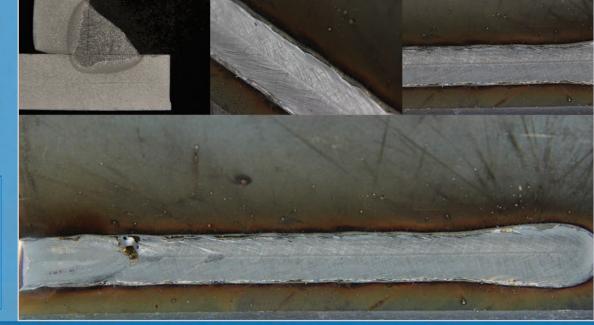


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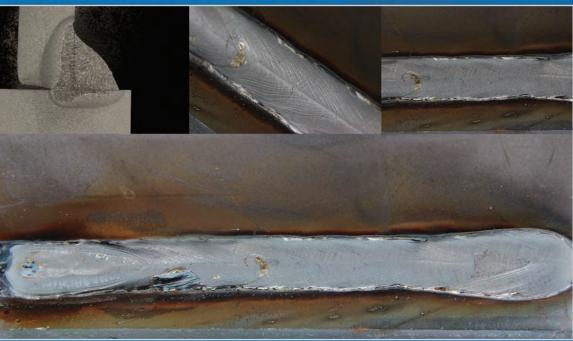
Decreased

Decreased







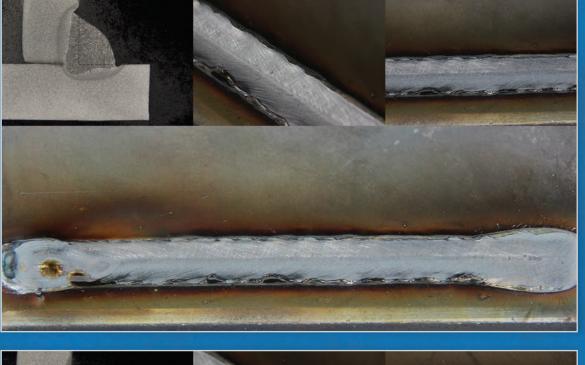




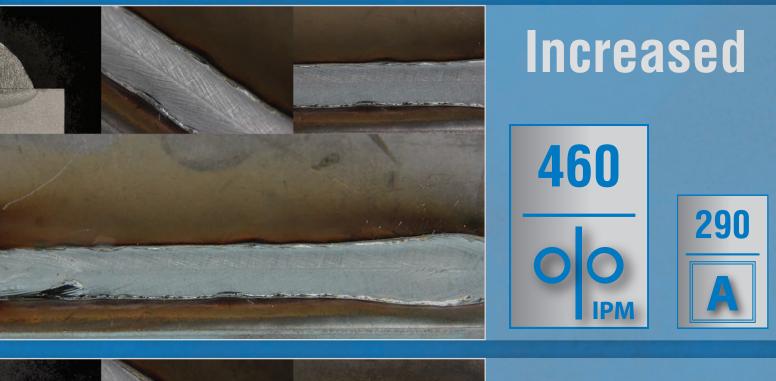
Feed Speed Wire











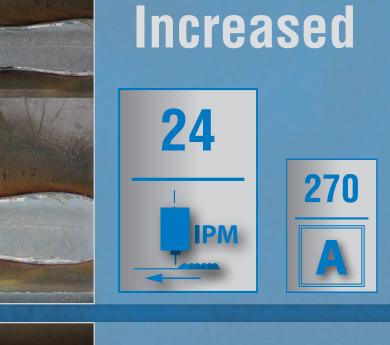
Travel Speed











Contact Tip To Work

