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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 E71T-11 (Fabshield® 21B)

Shielding Gas: N/A

Base Metal: 1/4 in. Cold Rolled Carbon Steel

16

-25°

Transfer Mode: FCAW/Spray

5/8" (Flush Tip)

50°

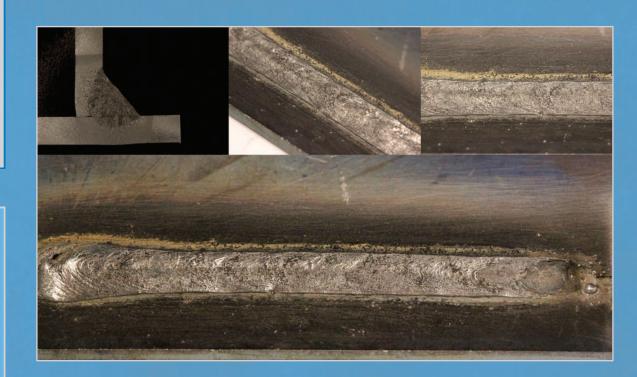
Travel Direction: Backhand (Drag)

Nozzle Diameter: N/A

190



19.6



/oltage

Decreased

15.7

193

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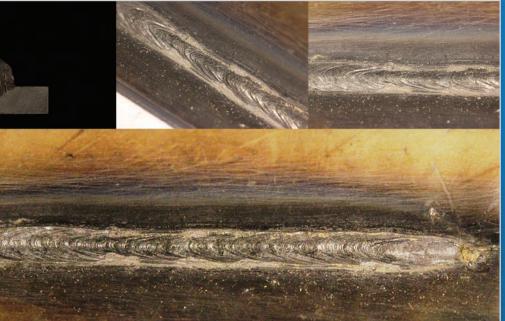


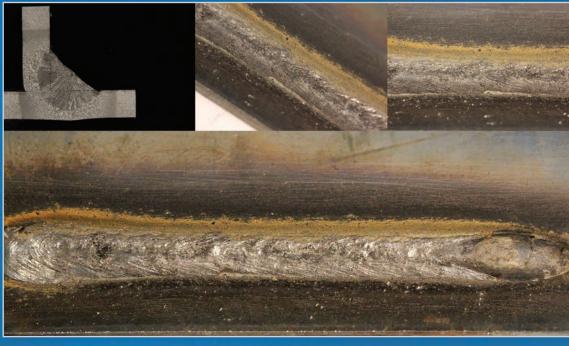




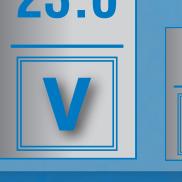
N/A

CFH









200

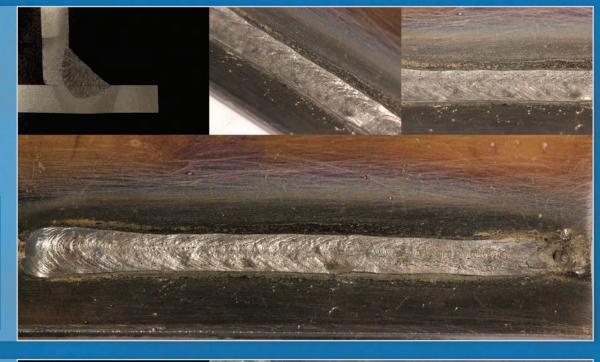
Speed Feed

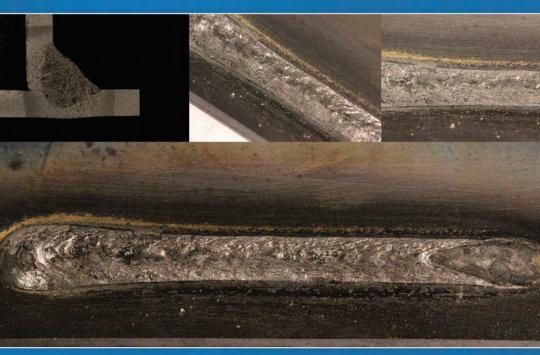
Wire

Decreased

150









233



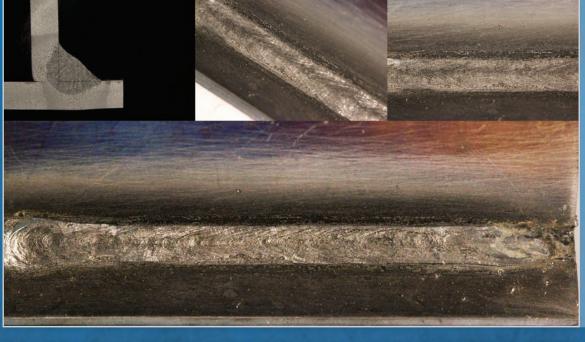
Travel Speed

Decreased

13











Decreased

