



# GMAW-P (Pulsed Mig)

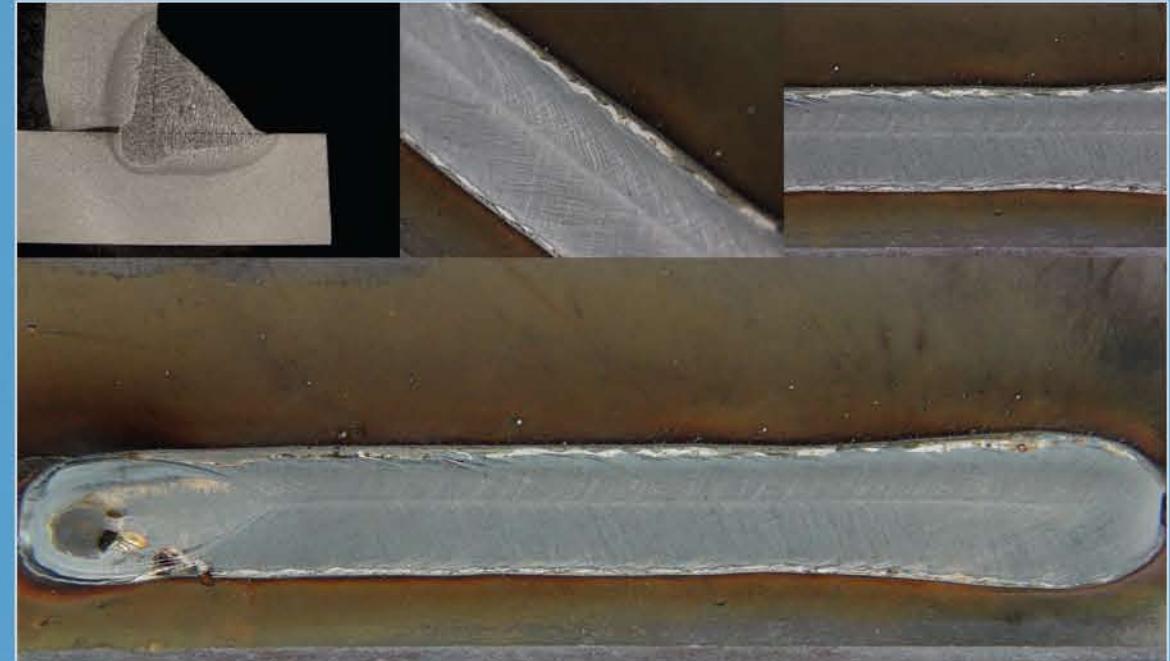
A baseline weld was made using automated welding equipment. Voltage, Wire Feed Speed, Travel Speed and Contact-Tip-to-Work Distance were then adjusted individually from baseline weld settings to illustrate how each parameter affects a fillet weld when raised and lowered. Icons in grey indicate the specific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

260  
A



400  
0|0  
IPM

20  
—  
IPM

+10°  
Drag  
Push

35  
CFH

3/4"  
(Flush Tip)

45°

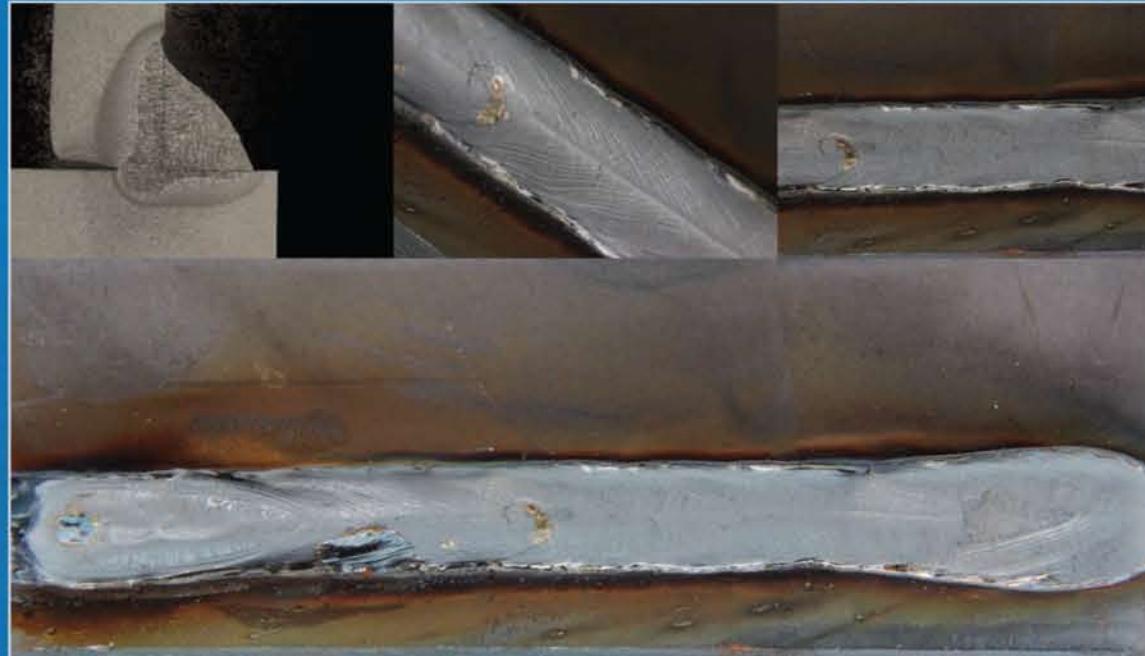
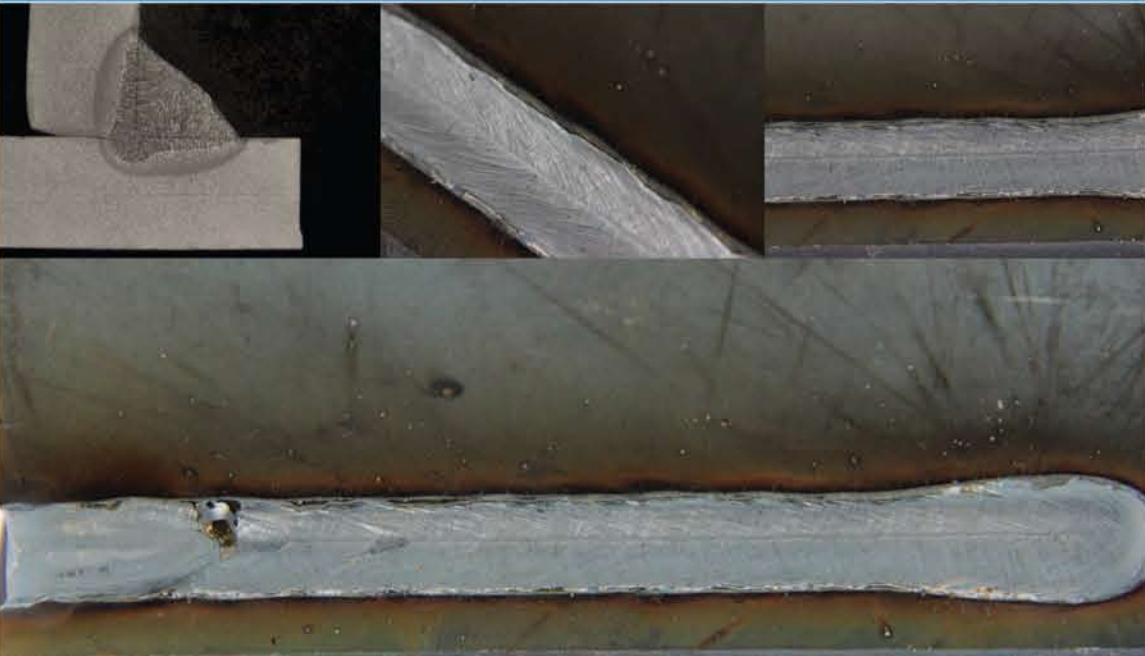
45  
—

## Voltage

### Decreased

38  
—  
A

249  
A



### Increased

52  
—  
A

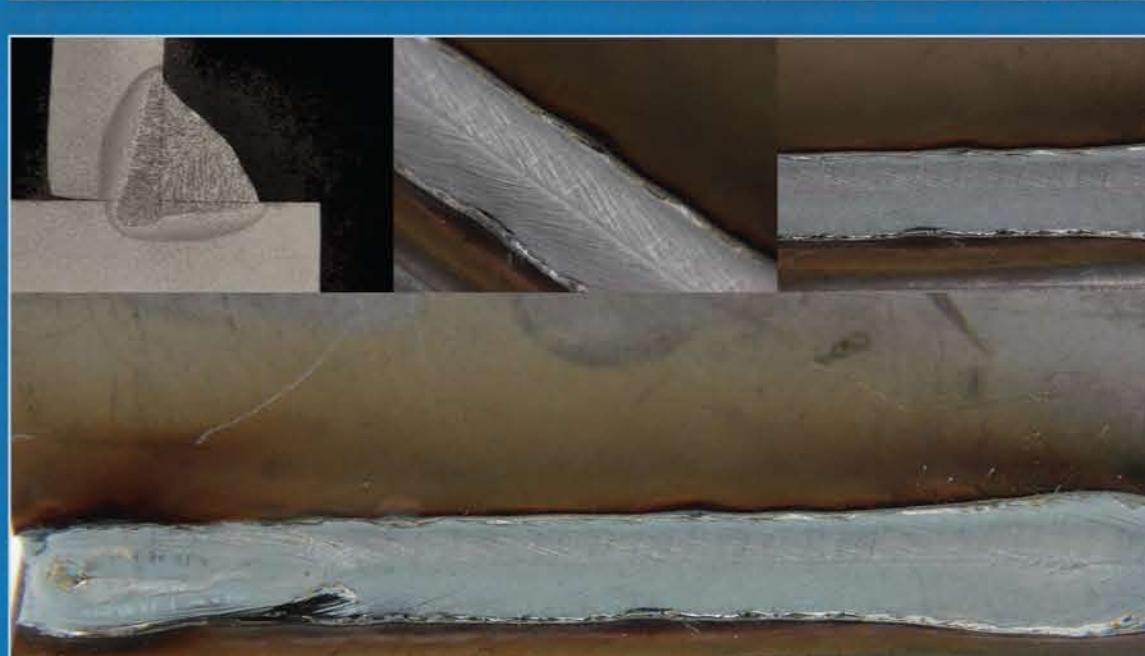
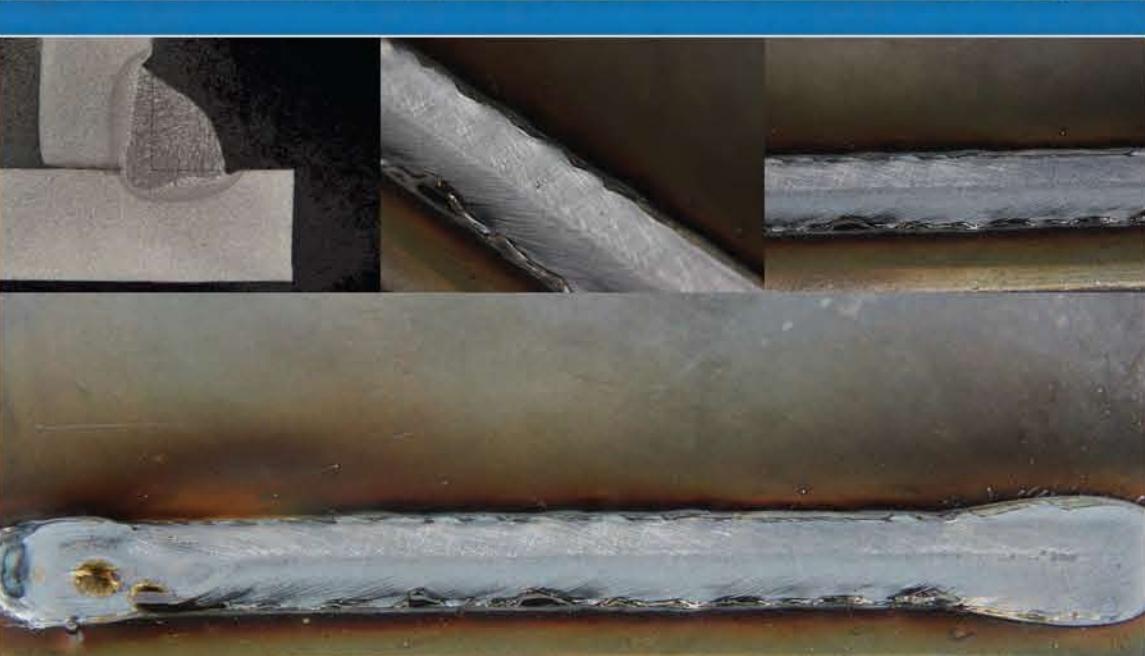
278  
A

## Wire Feed Speed

### Decreased

340  
0|0  
IPM

221  
A



### Increased

460  
0|0  
IPM

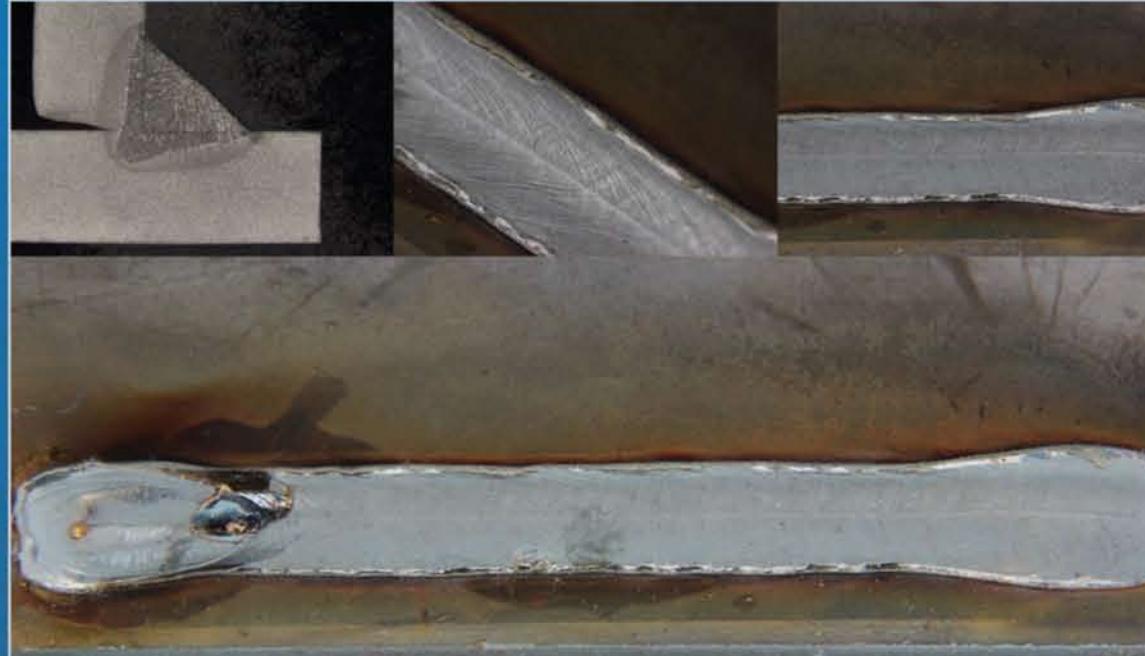
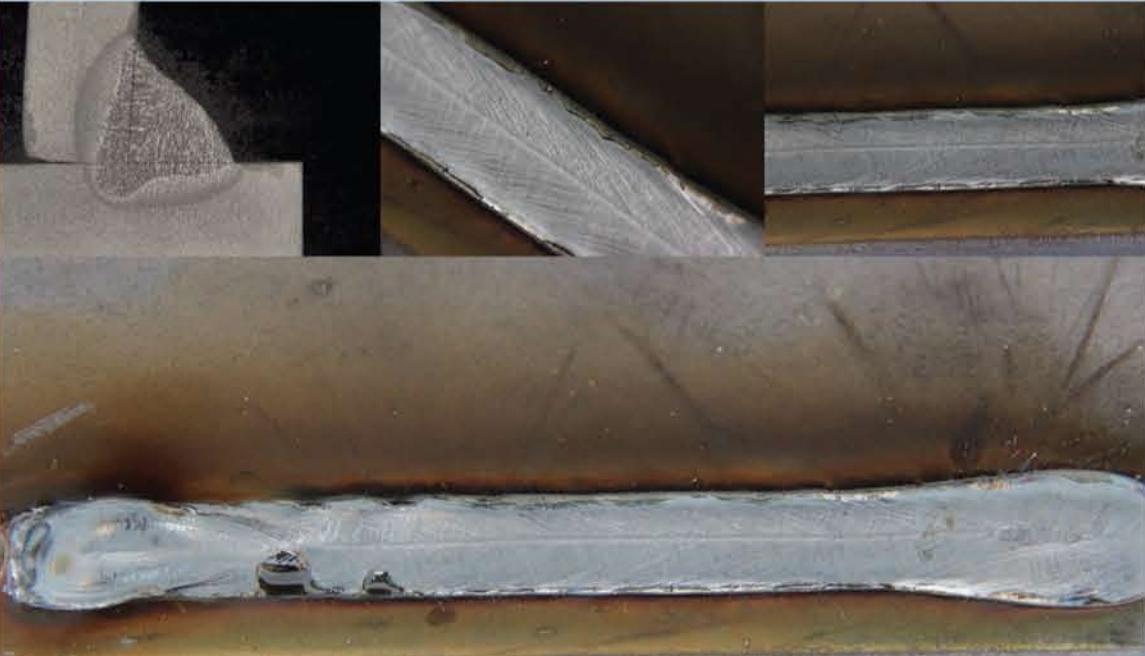
290  
A

## Travel Speed

### Decreased

16  
—  
IPM

266  
A



### Increased

24  
—  
IPM

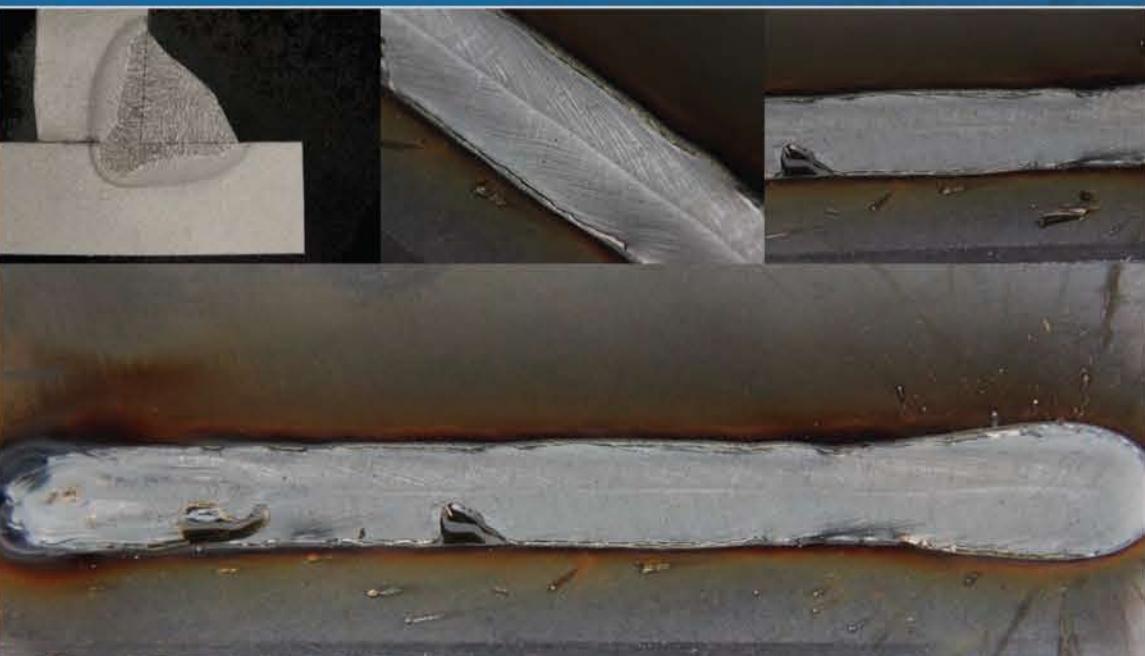
270  
A

## Contact Tip To Work

### Decreased

3/8"  
(FLUSH TIP RECESS)

298  
A



### Increased

1-7/8"  
—

216  
A