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Title: Gap bridging for two modes of laser arc hybrid welding

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Research highlights:  
(J. Lamas et al)

- In laser arc hybrid welding, a wide gap joint was preferably bridged at the top
- The bridge appears like an acceptable weld from the top, but lacks penetration
- For widening gaps, successive underfill suddenly switches to a top bridge
- Melt flow imaging, weld bead scanning and histograms support the analysis
- Pulsed and CMT arc mode bridged the same way, despite different melt flow

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