Challenges for JLR LWV Joining processes

Dr. Li Han



JLR Low Weight Vehicles (LWV)



Jaguar XE (2015)



Jaguar XJ (2003)



Jaguar XK (2007)

Two iconic brands with a wonderfully rich heritage started from 1922



Jaguar F-Type (2014)



Range Rover Sport (2013)



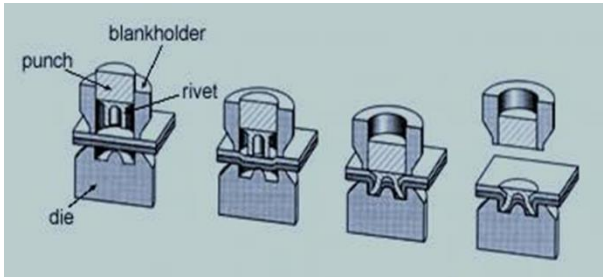
Range Rover (2012)

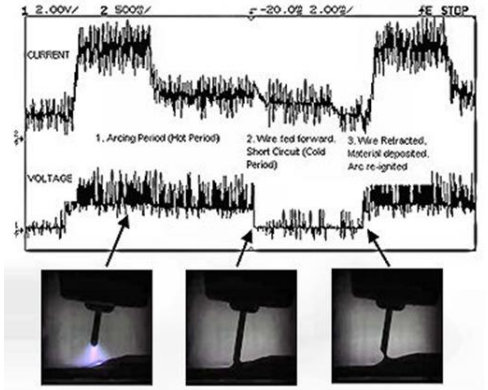
The current D7a models – Jaguar XE

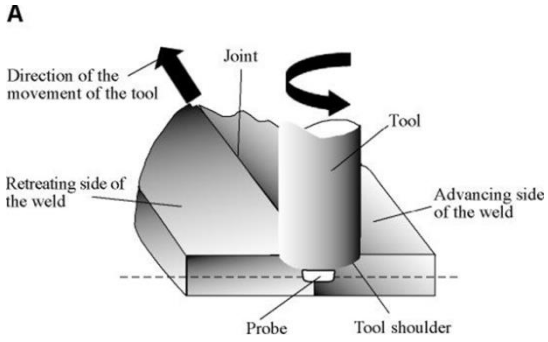


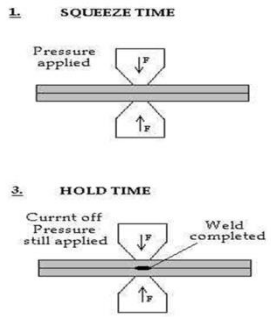
Joining Technologies for LWV

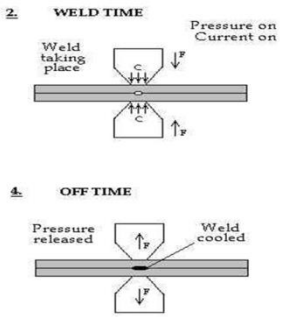
- Self-pierce Riveting
- Laser welding
- Resistant spot welding
- Clinching
- Adhesive
- Friction stir
- Cold Metal Transfer
- Others: Ejotweld, FDS, etc.

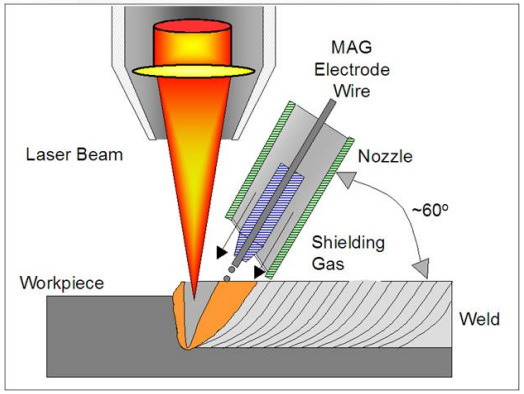












JLR Challenges

- Feasibility Prediction & Physical tests
- Non destructive tests & Physical tear down
- International standard for material manufacturing
- Collaboration within the automotive industry

Thank you

Danke
謝謝
Grazie
Merci
Gracias



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