EJOWELD® CFF

Reliable joining of composite materials by friction welding

Lightweight material can be joined to the highest strength sheets using the EJOWELD® CFF (Composite Friction Fastener). This versatile and reliable joining technology allows a large variance in material thickness combinations. The introduction and implementation of flexible material-body concepts is facilitated by this method.

Joining Process EJOWELD® CFF

Step 1
Penetration of the cover sheet (Lightweight material)

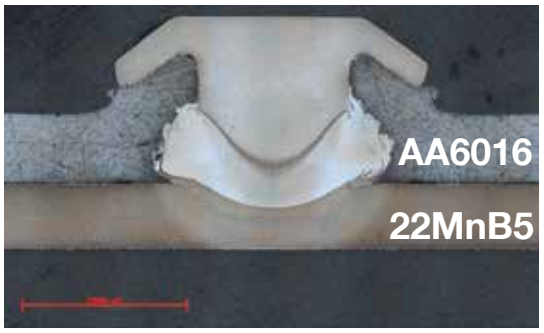
Step 2
Cleaning and activation of the surfaces

Step 3
Plastification of friction element and base sheet

Step 4
Compression / forming the welded joint

Advantages EJOWELD® CFF

- No pilot hole
- No pre or post treatment of the joined elements
- No brittle intermetallic phases, because the process works without the thermal adhesive bond between aluminium and steel
- Control of the linear expansion differences between aluminium and steel induced by temperature changes
- A number of material thickness combinations can be realised without modification of the machines



Modular Design EJOWELD® CFF System

- Feed
- Control cabinet
- Installation tool
- Support system (C bracket)
- Anvil adaptor
- Friction elements

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