

EJOWELD® REF

Universal joining of aluminium and fibre reinforced plastics





In addition to the innovative EJOWELD® friction element welding for joining of light-weight materials and steels, in particular ultrahigh strength steels, EJOT has extended its technolo-

gy portfolio by a new element - the EJOWELD® REF. The REF joining element has a hollow shaft and a similar shape like the well-known EJOWELD CFF®. It allows the joining of aluminium plates and plates of fibre reinforced plastics (FRP) onto aluminium sheet metals.

Joining Process EJOWELD® REF



Step 1 Cutting

Step 2 Creating centre cut-off and welding

Advantages EJOWELD® REF

- Gradually controlled process for an optimised joint regarding the original materials
- No delamination of the fibre reinforced plastics because of gentle joining process

Modular Design EJOWELD® REF System

- Feeder
- Control cabinet
- Setting device
- Various anvil adapters with different lengths
- Carrier system C-frame



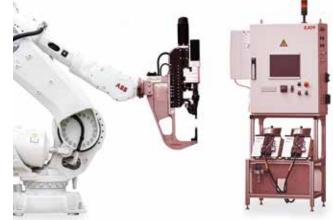




Step 3 Spreading

Step 4 Compression

- Concurrent usage of REF and CFF element with one device (special anvil and second feeder needed)
- Increasing of efficiency and flexibility by the possibility to join three different material pairs (Al/St, Al/Al, FRP/Al) while reducing complexity



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