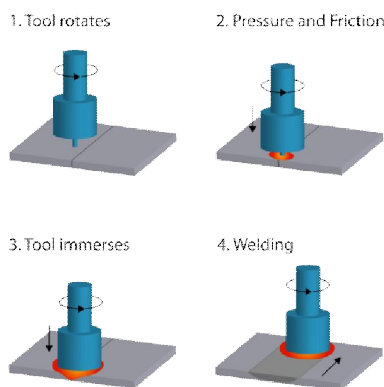


Modular design of extruded profiles by FSW

Technology



Friction Stir Welding (FSW) offers an easy way to increase your competitiveness.

Friction Stir Welding (FSW) joins two parts with a specially shaped, rotating tool. Due to rotation and pressure of the tool frictional heat is produced and the parts soften plastically in the area of the rotating tool without reaching the melting point. The parts remain in solid state: A ductile structure similar to the profile extrusion process.

The pin of the tool immerses into the malleable material of the part and produces a homogenous blend along the joining line. The shoulder of the tool forms and smoothens the welding line with only a marginal ridge.

Advantages of the FSW process:

- No Need for filler wire, welding flux or gas shielding
- Homogenous, sealed weld
- No inclusions
- Low distortion
- No shrinkage (Tolerances of the single profiles determine the tolerances of the welded part)

Take Two- Make One!



Get more out of your current production with FSW by EURO-COMPOSITES®!

- Your customers want larger profile extrusions than you can produce?
- You want a better operating grade for your smaller extrusion equipment?
- The geometry of the extrusion profile is inadequate for your press equipment?
- Your customers want an extruded profile with large dimensions and thin walls?
- The geometry of the extruded profile is very asymmetric?



In all these cases can friction stir welding help you to supply a better product. FSW-Extrusions in dimensions up to 1000 (W) x 400 (H) x 6000 (L) mm. We would like to serve you with advice and further information.

EURO-COMPOSITES® Group

EURO-COMPOSITES® is headquartered in Luxembourg and operates three production sites in Europe und USA. Our centre of Excellence, R&D is also based in Echternach, Luxembourg.

We are specialised in the design and production of advanced composites and offer a high degree of vertical integration: From a complex assembly group down to the simple sheet of honeycomb everything is possible.

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