



# Research Fund for Coal and Steel

RFCS 2020

Topic: RFCS-02-2020

Type of action: RFCS-RPJ

GA n° 101034068

# STIR4STEEL

**Friction stir welding for improving joinability of high-performance steels for automotive components to boost green road mobility**

**Deliverable D6.1 (D19)**

Industrial process design

<b>Deliverable No.</b>	D6.1
<b>Related WP</b>	WP6
<b>Deliverable Title</b>	Industrial process design
<b>Due Date</b>	31.08.2023 (Month 24)
<b>Deliverable Type</b>	Report
<b>Dissemination Level</b>	Confidential
<b>Status</b>	Final

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"This project has received funding from the Research Fund for Coal and Steel under grant agreement No 101034068".

## **Publishable Summary**

The deliverable D6.1 shows the industrialization concept for the B-Pillar case, using the process design tools for standard car body assembly, a process is constructed to show the feasibility of the STIR4STEEL development in a future industrialization. Starting from the 3 sources to define the process: Product definition, joint techniques and equipment selection; a complete process is defined with the time charts, FSSW split by operation and tooling & equipment needed. This process will proceed to a process simulation to validate the process by virtual methods.

As a showcase, the production data is an assumption from car industry standards.