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# STIR4STEEL

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

## **Deliverable D1.1 (D1)**

Definition of technical requirements and specifications of FSW and FSSW for some automotive applications

<b>Deliverable No.</b>	D1.1
<b>Related WP</b>	WP1
<b>Deliverable Title</b>	Definition of technical requirements and specifications of FSW and FSSW for some automotive applications
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<b>Deliverable Type</b>	Report
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## **Publishable Summary**

The main industrial requirements for the new joining technologies to be developed with the Stir4Steel project (Refill Friction Stir Spot Welding and Friction Stir welding) will be presented in this deliverable. Moreover the deliverable shows a list of the main tests foreseen to be performed in order to analyze the applicability of the developed solution in relevant industrial environment like the automotive domain.

Finally, the joining matrix for demonstrators Case IA, IB and II will be presented. In the joining matrix the combinations of materials and thickness to be investigated in the project are reported.