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STIR4STEEL

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

Deliverable D2.3 (D7)

Release of Software tool / SPC online-tool

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Publishable Summary

The industrialization of this online monitoring system is an attractive method to incorporate part of the nondestructive testing (NDT) into the online production monitoring. STIRTEC developed within the Stir4Steel Project a SPC Online tool for the friction stir welding equipment. The software processes high frequency data from the tool, spindle, machine and clamping device. The data from the welding process is statistically evaluated and then visualized in order to be able to detect the occurrence of irregularities, as much data as possible from test welds is required. The tool data and tool life is recorded in a tool database. All recorded data from the welded joint is stored in the FSW Wizard.