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Figure 1. Automated car production employing resistance spot welding

Figure 2. The SmartDress system
Figure 3. Degradation mechanisms of an electrode tip used to weld zinc coated steel

Figure 4. State of the art electrode tip dressing using metallic bladed dressers (cutters)
Figure 5. Degradation mechanisms of an electrode tip used to weld aluminium

Figure 6. The elements of the SmartDress system
Figure 7. Example of timings in a spot welding production cell

Figure 8. Drawing of the optical sensor and electrode position during measurement.
Figure 9. Electrode tip measurement by the optical sensor

Figure 10. GUI Production set-up window.
Figure 11. GUI SmartDress monitor window.

Figure 12. Abrasive dresser subsystem; abrasive insert and technical drawing of the dresser.
Figure 13. Abrasive dressing in action

Figure 14. Technical drawing of the Sinterleghe mechanical dresser station and a Ravitex® dressing (cutting) insert.
Figure 15. The Sinterleghe electrode tip changer. Left side: Tip magazine feeder, right side: electrode tip removal tool.

Figure 16. The SmartDress system in operation
Figure 17. The SmartDress system and all relevant foreground and background IP.

Figure 18. Project website home page.