

SIMATIC RF300 USE CASE

Electric engine production in the automotive industry

Task

The trend toward electric engine technology continues apace. To meet it, the automotive industry must successfully manufacture energy-efficient electric motors as quickly, efficiently, and flexibly as possible. In the process, the traceability of all quality-relevant materials and components must be ensured at all times.

Benefits

- Facilitating flexible manufacturing with the high-performance SIMATIC RF300 RFID system.
- SIMATIC RF360R combines the functions of the CM (communication module) and reader in one device, enabling space-savings and cost-efficient installation

Solution

In electric engine production, especially for the stator component, individual copper wire windings are drawn into the stator housing with specialized machines. The finished stator is then assembled together with other components (e.g. anchor, rotor) to a complete, ready-to-install electric engine. After completion, the components are assembled on a track-guided assembly line on workpiece carriers. Each workpiece carrier is equipped with a SIMATIC RF350T transponder, on which all production-relevant information is stored. With the help of the SIMATIC RF360R reader, this data is read and written at individual and manual workstations.

