



Plastics Systems

Borscheid + Wenig GmbH Diedorf

Project: Automation of plastics parts
Customer: Borscheid + Wenig GmbH
Technology: Automation of metal parts at plastic components

Borscheid + Wenig are an internationally operating industrial company actively doing business in the automotive sector.

To meet the high quality requirements in this sector, Borscheid + Wenig decided to automate technically demanding processes.

Project scope realized by SAR:

- Workflow analysis
- Evaluating different solution approaches for setting metal parts in a fully automated production process
- Working out a concept for the favoured automation solution
- Detail engineering
- Layout creation with accessibility study for further periphery
- Providing interfaces for peripheral parts
- Preparing the drawings

When producing plastic components, 8 designated parts are introduced per injection-moulded part. These metal pins are made available to the robot with the plastic part in the especially developed gripper by means of separation. The robot drives under the designated part and inserts them in the opening of the article. Once having reached the end position the metal part is automatically mounted and released by the station for the subsequent processing. The robot then drives to a second separation where the same process sequence takes place. During this time, a new designated part is loaded at the first station and provided to the robot.

To obtain the cycle time request, it is necessary to work with two stations simultaneously.

The drawing forces by which the metal pins are processed are documented in the automated production machine so that the parameters are chronologically recorded. In the further process snaplock nuts are attached onto the part in an automated manner.

A camera checks if the snaplock nuts are present and placed at the correct position. The finished part is then stacked and deposited on a conveyor, transported out of the system and packed by a Borscheid + Wenig employee to be ready for dispatch.



SAR Elektronik GmbH
Nürnberger Straße 96
91710 Gunzenhausen
Germany

Pho: +49-9831-8811-0
Fax: +49-9831-8811-111

www.sar.biz
kss@sar.biz