



Plastics Systems

WIRTHWEIN AG

Project: Window frame moulding Audi B8
Customer: Wirthwein AG
Technology: Demoulding and milling window frame mouldings

Our customer Wirthwein manufactures window frame mouldings for different vehicle models.

Due to the complex demoulding movement, the subsequent machining by means of a stationary milling spindle and finally due to the limited space conditions this project could only be realized using an industrial robot.

The robot removes the part from the mould core. Thanks to the holding fixtures in the gripper, the part is received always in the same reproducible way. This is how the subsequent processing becomes possible at all.

The robot transports the part in the gripper to the stationary milling spindle and mills the piece out of the surface as needed. Then the component is picked up by means of changing the gripping position such that the component can be deposited.

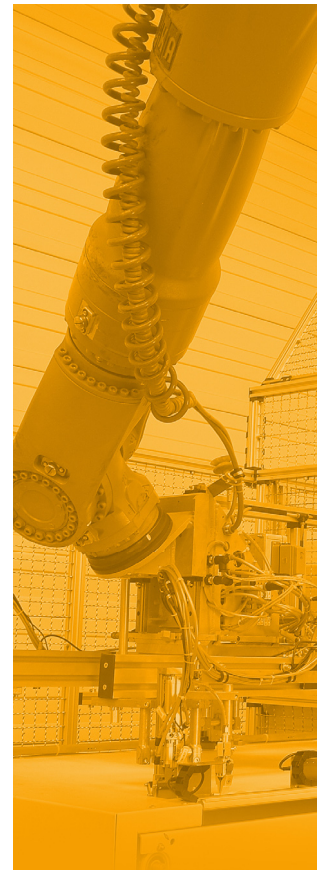
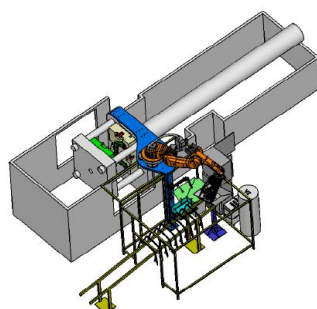
During this movement the gripper is cleaned automatically by means of an air blade. After having changed the gripping position the milled cutout is flamed shortly to remove possible burrs.

Then the component is deposited on a conveyor. Thanks to the possibility of moving the conveyor in cycles, the length of the conveyor is used as cool-down line/section and the worker may pack the finished parts without personal protective equipment.

Project scope realized by SAR:

- Supply of a KUKA articulated arm robot with multi-functional gripper system
- Stationary milling spindle for milling the opening for the roll-up sunblind
- Suction unit for removing the milling chips
- Station for changing the gripping position
- Blowoff station by means of an air blade
- Flaming station for deburring the milled section
- Conveyor for transporting the finished parts
- Engineering, commissioning and programming

Readjusting the milling process is possible without plant or system downtimes, if this becomes necessary.



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