

Taskoprojekt, body assembly (point welding) station for Tower Malacky, Slovakia

CLIENT

Tower International is a global manufacturer of engineered automotive structural metal components and assemblies primarily serving original equipment manufacturers (“OEMs”). Tower manufacturing a complex welded assemblies for small and large cars, crossovers, pickups and sport utility vehicles (“SUVs”).

Taskoprojekt is an engineering company that since 1969 provides complex solutions for diverse industries. For half a century Taskoprojekt designing, producing and implementing solutions for Customers representing different industry branches. Taskoprojekt company is focused in the automotive business activities.

TASK

Programming and commissioning of station with 2 Motoman robots manufacturing body elements for VW Tiguan. Main components of machine are: 2 Yaskawa Motoman Robots with ARO point welders, , SEW MoviDrive with positioning for rotary table, 20 actuators and other devices controlled by Simatic PLC and visualized on HMI Panels.

Most significant features of control system was:

- Commissioning station with cycle time and product quality ,
- Commissioning of Motoman Robots – point welding application,
- Optimized cycle time: all movements are programmed with maximum possible level of simultaneity,
- Precise alarm diagnostics,,
- Advanced safety functions.



TECHNICAL SPECIFICATION:

- 2x Motoman DX200 Controller,
- 1x Siemens S7-300 Control unit,
- 1x Simatic TP1200 Comfort HMI Panel,
- 5x IM 154-4 PN HF IO Module,
- 15 other Profinet devices.

PHOTO:

