

TMS Valiant Robotized high pressure engine washers for Opel Tychy, Poland

CLIENT

Opel Manufacturing Poland Sp. z o.o. is an automobile manufacturer in Poland. It assembles passenger cars in a factory in Gliwice and builds engines in Tychy. Opel Manufacturing Poland is a subsidiary of Opel Automobile GmbH in Rüsselsheim, Germany which in turn is a subsidiary of Groupe PSA.

Valiant TMS is a global company delivering optimal automation solutions for the automotive, aerospace and heavy industry sectors. The company designs, builds and integrates intelligent production systems including: Welding and Joining Systems Engineered Hemming Solutions Automation, Assembly and Test Systems Industrial Parts Cleaning Technology and Final Assembly and Conveyor Systems.

TASK

Programming and commissioning of five robotized station for high pressure washing engine blocks. Main components of machine are: 5 Fanuc Robots, 5 PLC controllers and 5 HMI Panels.

Most significant features of control system was:

- Commissioning line with NOK strategy in case of part or process errors,
- Commissioning of Fanuc Robots – handling and gluing applications,
- Optimized cycle time: all movements are programmed with maximum possible level of simultaneity,
- Advanced DCS safety functions.



TECHNICAL SPECIFICATION:

- 5x Valiant TMS Valuflex high pressure washer,
- 5x Siemens PLC Type S7 300 series,
- 5x FANUC RJ-30iB Controller,
- 5x TP1200 Comfort HMI Panel,
- 10x IM 154-4 PN HF IO Module,
- 10 other Profibus/Profinet devices.

PHOTO:

