



# Škoda EHB control system

## CLIENT

Škoda is a Czech automobile manufacturer belongs to Volkswagen Group which has 10 factories in all over the world. Their annual production exceeds one million cars. Works took place in factory in Mladá Boleslav.

SPS servis a programování strojů is a Czech company specialist in project and performing electrical installations for automotive industrial.

## TASK

Commissioning of control system for four EHB transport line (Elektrohängebahnen). The task of the control system is to management and transfer mechanical parts (i.e. car floor, side of car) by the trolleys from one assembly robotic station to another one. The EHB control system consisted of Simatic PLC cooperating with trolley controllers by the DKZ Bus master system delivered by LJU Automatisierungstechnik. On the line are also mounted track switches which allow for passing trolley to different robotic station. The track switches are controlled by MOVIFIT inverter.

### ACCOMPLISHED WORKS:

- Create a Eplan documentation,
- Check of electrical installation,
- Commissioning and improvement of the control system (PLC and Bus master system),
- Commissioning and adjustment of the HMI System,
- Commissioning SEW inverters.

### TECHNICAL SPECIFICATION:

- Siemens Simatic S7-319F Controller,
- Siemens Simatic HMI TP1500 Comfort,
- Trolley controllers ST-790-SB,
- DKZ Bus master system,
- SEW MOVIFIT FC,
- Profinet Network,
- Profibus Network.

