



# IWM Automation GmbH Steering Column Assembly Line For ThyssenKrupp Presta AG

## CLIENT

Thyssenkrupp Presta AG is one of the world's most successful manufacturers of steering systems, and is the technology leader in the field of massive cold forming. Steering systems for more than 20 million vehicles per year are developed and produced in Thyssenkrupp plants all over the world. New line was made for plant in Puebla, Mexico.

IWM Automation GmbH is a system supplier of special-purpose machines. Their focus is on automation technology for the automotive industry and its suppliers. They develop and implement high-quality production systems for chassis, steering systems and seats, as well as combustion engines, electric drives and hybrid drives.

## TASK

Programming, commissioning and adjustment for steering column assembly line. The whole production line consisted of transfer system and fifteen stations divided into three separate parts: Main Assembly and two Preassemblies, each with its own PLC controller and one common visualization system. The control system consisted of Siemens Simatic PLC. Joining process was achieved by means of Promess servo axes, riveting by Honsel equipment and for quality control Keyence cameras and KUKA IIWA robot was used. Cycle time for this line was less than twenty seconds.

## ACCOMPLISHED WORKS:

- Commissioning and programming of the control system
- Commissioning and programming of the safety program
- Commissioning and tests of KUKA robot
- Commissioning and creating of the HMI System

## TECHNICAL SPECIFICATION:

- Siemens Simatic CPU 1517F-3 PN/DP Controller,
- Siemens ET200S Modules,
- MURR Cube67 Modules,
- FESTO Modules,
- Promess UniDriveM,
- Keyence SR-1000 and IV-500 vision systems,
- Weiss Rotating Tables,
- SEW Movimot and Movitrack Inverters,
- SCALANCE X208 Switches,
- Honsel maXYmosTL,
- DataMan 8000 Scanners,
- KUKA IIWA robot,
- Balluff RFID Antennas

