AUTOMATION OF AUTOMOTIVE SPRINGS FORGING

CASE

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Automotive Sector

MAIN BENEFITS OBTAINED



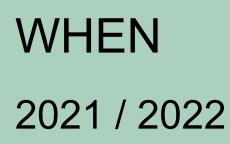
Better operational safety and efficiency

Process digitalization, sending data to the cloud

WHERE

PROCESS

Service performed with partner company, for automotive springs manufacturer in Brazil.



CONTEXT

Modernization project including the integration purchase and of new equipment to the existing process.

Programming of automatic sequences and manual commands of Furnace, Walking Beam, Conveyor and Spring Stacker.

CLIENT AND CONTEXT

Coil spring heating for reduction mill

NEEDS AND CHALLENGES

PROJECT NEEDS Increase of production capacity, with automated processes and standardized quality control.

PROJECT CHALLENGES

Software development including several equipment, with

interacting with each other and with overlapping safety

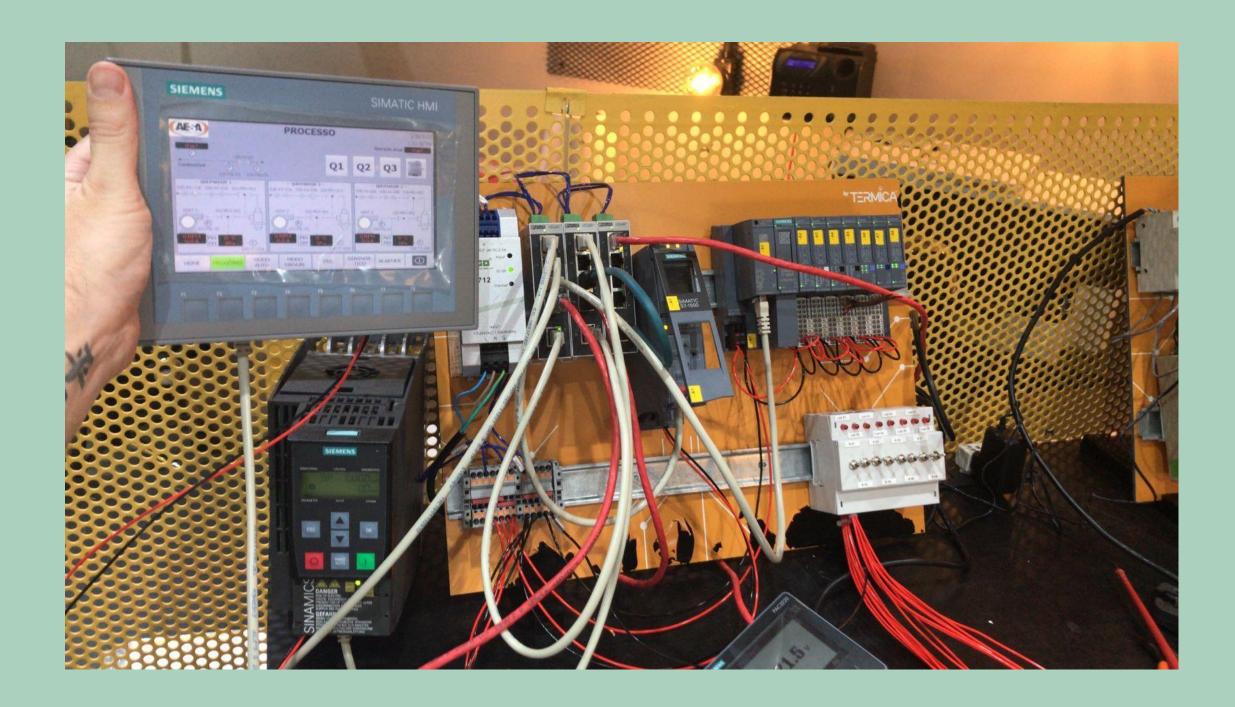
interlocks.

different functions and automatic sequences, but

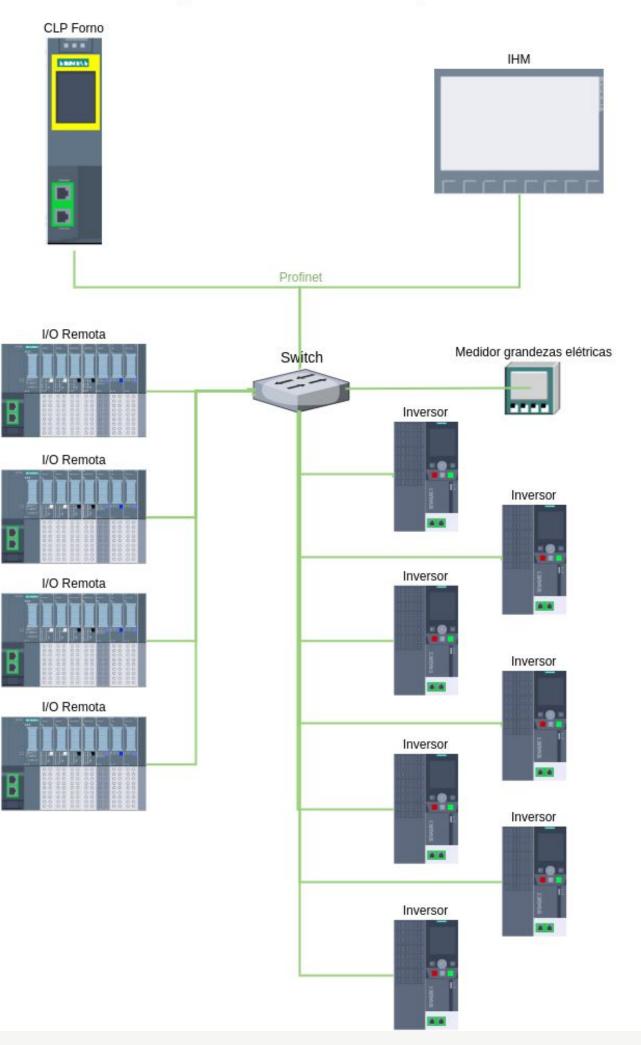
SOLUTIONS DELIVERED



- Siemens PLC and HMI programming
- Validation through simulation tests, aiming to reduce commissioning time



Arquitetura de Automação



DELIVERABLES

- PLC AND HMI PROGRAMS VALIDATED THROUGH SIMULATION

- PLC INTEGRATION TO CLOUD SYSTEM OF PARTNER COMPANY

- REMOTE SUPPORT DURING COMMISSIONING

- SOFTWARE DOCUMENTATION

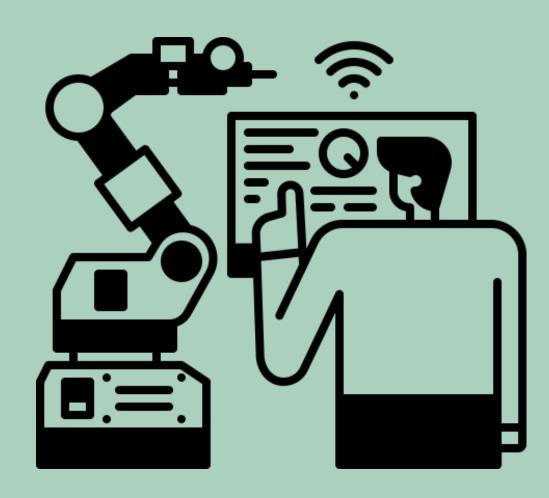
Technologies & brands

- Siemens PLC's S7-1500 Safety and ET200SP, HMI and drivers
- Integration to cloud system through OPC UA communication





WHERE ELSE CAN IT BE **IMPLEMENTED?** to



In all kinds of industries aiming to automate its processes, integrating new equipment and technologies improve operational efficiency and safety, and sending data to cloud systems.

ADDRESS

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Please contact us to receive other cases that may be applied to your challenge.

WHAT IS YOUR CHALLENGE?

E-MAIL





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