

Roller hearth furnace

Telos Global, USA

CUSTOMER

Telos Global is a new company based in the US, Tennessee, which specializes in design and production of prototypes or short production series of parts from aluminium.

TASK

Programming and commissioning of a 'Roller hearth furnace' and safety devices in the production area. Furnace is able to heat up till 1000 °C. 2 operation modes: Oxygen and dew point control. Depending on a selection a different mix of gases is maintained in the furnace.

Operators can use the operating panel placed on the control cabinet to control every device or can use any computer with a browser connected to the plant network (including the remote VPN access from any place in the world). The second option is possible by EMES software delivered by Enisco company. The technical support of the plant in the US is realized from our office in Poland in Piekary Śląskie.

The control of the rollers inside of the furnace is realized with Siemens Simotion PLC. That is due to the fact of speed used and also a need of very good synchronization of the drives along the whole furnace. Control of the heated parts in the furnace is important for synchronization with the press feeder.

SCOPE OF SUPPLY:

- Programming S7-300 PLC's
- Visualization screens in WinCC
- Visualization screen for EMES
- Commissioning
- Warranty and post-warranty service

APPIED TECHNOLOGY:

- PLC's S7-319F i S7-317F
- Safety PLC
- SIMOTION Drive-based Control Unit D435-2 DP/PN
- Profinet
- SIMATIC TP1500 Comfort Panel 15"Basic
- SICK safety light curtains
- EMES - Production Control System

