

TUPUNATRON – Peru

Grading line in poultry slaughterhouse

Tupunatron is specializing in weighing and automated systems in Central America.

They design and provide complete solutions including load cells, weighing terminals, PLC and SCADA in all kinds of industrial applications such as food processing.

Customer need

The goal of this packaging line is to automatically sort chickens by weight range. To do so, the operator sets the different grades by defining the weight ranges and related outputs. Each chicken is suspended and carried at high speed on a rail. Without any stop, the system has to accurately weigh the chicken and drop it in the related section.



SCAIME solution

SCAIME and TUPUNATRON proposed a complete solution where the PLC takes care of general system controlling and the dynamic weighing tasks are sub-contracted to the eNod3-C checkweighing controller.

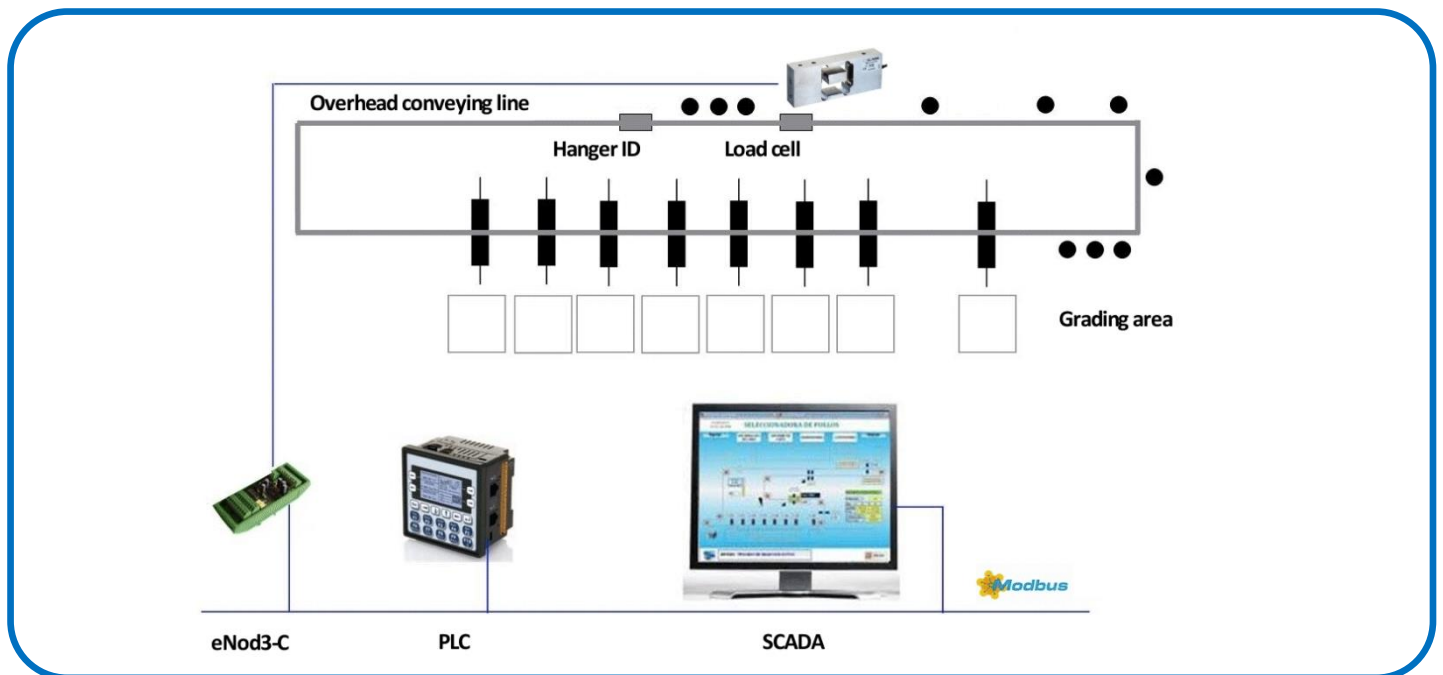
SCAIME products:

- 1 single point load cell AK
- 1 checkweighing controller eNod3-C

Automation products:

- 1 ea PLC Horner XLE-105 with integrated HMI
- 1 Indusoft SCADA system

The PLC manage the hanger identification, eNod3-C takes care of digital filtering and dynamic weighing. After each hanger passing on the load cell, eNod3-C sends the chicken weight value to the PLC which ejects it into the requested section.



Customer benefits

- Optimized architecture for best performances: devices being dedicated to tasks for which it is perfectly fitted.
- Thanks to eNod3-C digital filtering and dynamic weighing capabilities, the system reaches grading of 8000 chickens/hour at the requested accuracy.