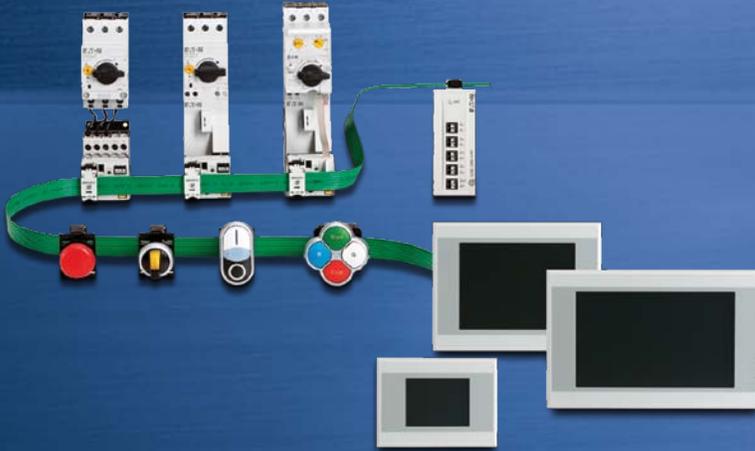


Success Story:
Frigorífico São Miguel Ltda

Markets Served
Food Processing



"Thanks to the Eaton solution we were able to increase the efficiency of our entire process and make considerable cost savings. SmartWire-DT offers the plant-wide automation system an excellent diagnostics system so that downtime can be reduced to a minimum."

Eaton Automated Machine Control Solution Featuring SmartWire-DT™ Enables Pork Processor to Increase Efficiency and Reduce Costs

Location:
São Paulo, Brazil

Problem:
Increase efficiency and reduce processing cost

Solution:
Eaton XTPE Manual motor protectors, XT contactors, SmartWire-DT, XC PLCs, XV HMIs, XI/ON remote I/O, and M22 pilot devices

Results:
State-of-the-art processing facility that provides increased efficiency and cost savings

Contact Information
Readers who may have similar application challenges and would like to discuss this sales success are invited to call Richard Chung at 414-449-6187.

Frigorífico São Miguel Ltda, which produces processed food, such as seasoned steaks, bacon, sausage and ham products, from pork under the Friella label, worked with Eaton to develop a networked, automated machine control solution for production, packaging, and refrigeration. The Eaton solution features SmartWire-DT, which is used for the automated machine control in which 278 motors are controlled in four different areas and networked via the connection and communication system.

The Friella plant is responsible for the entire pork meat processing operation—from the pig sty, slaughter, processing in the slaughter house, cutting room and processing machines, as well as primary and final packaging and refrigeration. The plant chose an Eaton control system including XTPE manual motor protectors, XT contactors, SmartWire-DT, PLCs, HMIs, Remote I/Os, power supply units as well as M22 pilot devices.

An XC200 modular PLC, which controls the installation, is networked with a SCADA system and nine XV HMI touch panels installed in different areas. PLCs, HMIs, XI/ON remote I/O and SmartWire-DT are integrated in the entire system via Ethernet and CANopen. The installation includes 278 motors, which are controlled and operated in four

different areas, and are linked via the SmartWire-DT connection and communication system. Using SmartWire-DT all motors can be monitored completely from the control system, including the feedback signals such as states or other process data sent from the XTPE manual motor protectors and contactors. This allows fast diagnostics and ensures an efficient production of the entire plant.

The Eaton solution requires fewer control cabinets, less maintenance, and components can be exchanged rapidly and simply if required. The installation at the Friella plant had to be implemented with reduced wiring, in which highly reliable production had to be ensured as the highest priority. The SmartWire-DT technology was thus the ideal solution since it offers an optimum

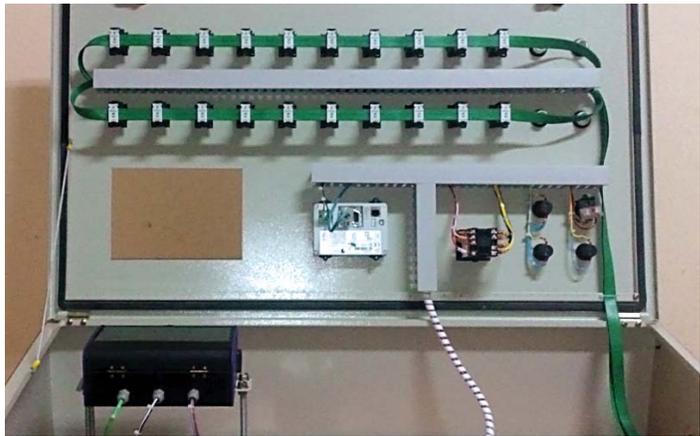


Powering Business Worldwide

solution for connecting the motor control components in the control cabinets.

Today production monitoring is implemented via CoDeSys web visualization—an IEC 61131-3 programming system—which can also handle historical process data. In addition to field maintenance, the control system is also designed to allow remote access to the visualization objects by means of a web server from any PC or web browser, irrespective of the platform.

Cristiano Lewandoski, the engineer who is responsible for automation at the Friella facility notes, “Our plant is designed for the slaughter of 750 pigs a day and for the processing of the meat into tasty products. Thanks to the Eaton solution we were able to increase the efficiency of our entire process and make considerable cost savings. SmartWire-DT offers the plant-wide automation system an excellent diagnostics system so that downtime can be reduced to a minimum.”



SmartWire-DT reduces the time required for wiring, testing and commissioning by up to 85%.



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