
Project Name: Bridon Cordage Monofilament Line Automation

Location: Saskatoon, Saskatchewan

Owner: Bridon Cordage Ltd, Saskatoon

Plant Facility: Bridon Cordage is the agricultural industry's leading marketer and manufacturer of polypropylene baler twine. It manufactures twines for agriculture and industrial applications. It has monofilament pull line manufacturing plant in Saskatoon. This plant produces monofilament line with continuous monofilament fibers for industrial application.



Delco Automation's Scope of Work: Engineered, manufactured and commissioned the semi-automated equipment control system for the new extruded monofilament twine production line.

Technology: The system consists of two Modicon Quantum PLCs networked on Modbus Plus and two Cuttler Hammer MicroPannelmates for operator interface. Extruder equipment controlled includes 44 motors (21 of which are speed controlled) and 39 individually controlled heater zones. The control architecture allows manually controlled machine startup for initial product feed and then provides precise automated speed control for increased production speed. Temperature control is fully automated closed loop control with alarm monitoring.