



Key Benefits

- Closed loop control of induction coils
- Automatic analysis of thermal image
- Complete process monitoring
- Improved quality of finished products

Eye to the future | Window on the world

Summary

The plant takes in large steel pipes, up to 82" in diameter and 6m in length, and applies a thick plastic coating. The pipes are then used for transporting oil overland between refineries and storage sites. The system was designed to monitor the complete plastic extrusion process and to apply supervisory control to the key elements.

The steel pipes received at the plant are first passed through a water wash and then through a dryer before going on to a shot blasting stage. After the shot blasting, the pipe is inspected, chromated and then passed through a pair of temperature controlled induction coil ovens. It is then driven in a corkscrew fashion through to the extruder where it is coated, first with an adhesive layer and then with the plastic itself.

The system has already proved its worth and is due to be expanded with further closed loop control and automatic monitoring of the pipe identities.

Equipment Used

- Intel based Pentium PC using Microsoft Windows NT 4
- 27 x Eurotherm 2216 Controllers
- 2 x Dynisco 1290 Indicators
- 8 x West 8010 Indicators
- 6 x Raytek TX Temperature Measurement Devices
- 2 x Raytek Marathon Temperature Measurement Devices



If you would like to find out more about this application, please contact the sales office who will put you in touch with the original Systems Integrator.

Turnkey Systems - Extrusion Monitoring and Control