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All the control you need at a price you can afford.

Integrated Temperature And Layer Yield Control System-LighT

- controls extrusion lines
- monitors complex system at one control screen
- provides automated operation with recipe-based system
- avoids operator error.

Method of Operation

ITALYCS-LT is a PLC-based system that integrates controls on one easy-to-use and easy-to-view touchscreen. Those using manual controls will find that ITALYCS-LT simplifies the job and avoids operator error.

The system gives the operator the ability to control temperature and composition of the final product. When the operator selects a recipe the ITALYCS-LT sets operating temperature, layer ratio and film thickness. Base resin and additives are gravimetrically monitored. ITALYCS-LT controls extruder RPM, haul-off speed, and bubble diameter to achieve the target yield. Temperature is also controlled with deviation high and low alarms.

This recipe-based system allows fully automated operation of the line.



Brampton Engineering

Quality: Brampton Engineering Inc. World Headquarters continues to meet the ISO 9001:2000 standard which covers design, manufacture, assembly, installation and service of our products.

Distinguishing Features

Control System

- PLC processor
- industrial communication network
- colour flat panel industrial workstation.

Control System Basic Features

- distributed I/O system
- touchscreen interface
- hardened industrial parts.

In-Line Scrap Recycling

- gravimetric fluff feeding
- fluff plus resin equals extruder throughput
- allowable vs actual scrap consumption.

On-Screen Production Reports

- resin/scrap consumed
- start-up and operating scrap
- operation efficiency
- percent product in specification.

Temperature Control

- PID control algorithm
- melt temperature monitoring
- demand, status, % heating, % cooling
- automatic mode: control to setpoint
- deviation, high, low alarms.

Yield Control

- drive coordination and control
- pressure monitoring, alarm stop
- screw efficiency monitoring.

Recipes

- product recipes which include temperature settings, blend ratios and layer ratios
- transfer to production.

Automatic Idle

- all drives to preset idle speed.

Average Gauge Control System

- gravimetric system; automatically adjust extruder screw speed to maintain desired layer gauge of percentage of total.

Layflat Control System (Blown Film)

- define desired layflat
- manual override
- direct layflat readout.

Alarm Monitoring

- alarms timed.

Downstream Machinery Set-up

- haul-off, secondary nip, bubble cage.

Remote Monitoring

- modem for remote monitoring and diagnostics

Printer

Note: Specifications are subject to change without notice. Some items shown may be optional.