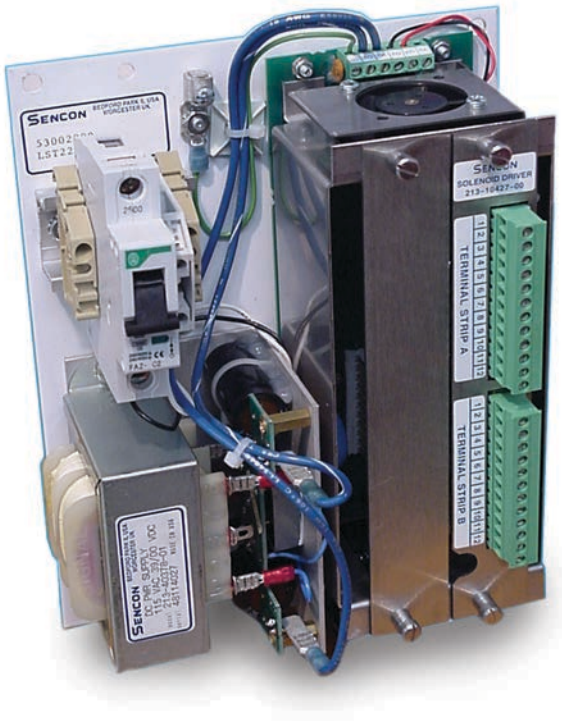
Compound Lining Gun Control

CGC22

IMPROVE TRIGGERING OF ELECTRO-PNEUMATIC GUNS ON STATIC COMPOUND LINING MACHINES

Gain considerable improvement in the consistency and precision of static compound lining machines



BENEFITS
Better sealant placement
Improve product quality
Reduce downtime from contamination
Reduce waste
Lower costs

Maximize liner efficiency,
Minimize compound extrusions

PRECISE TIMING, SHARP TRIGGERING — Compound lining on formed ends needs to be precisely timed with sharp, clean triggering and cut-off, otherwise it can leave residual compound extrusions or "tailing". This is not only wasteful of expensive sealant, it can also cause contamination problems and machine downtime further down the line.

ELECTRO-PNEUMATIC GUNS — Mechanical guns are particularly vulnerable to this sort of problem because they are difficult to control with precision. Electro-pneumatic guns with an accompanying solid state solenoid driver give better control over sealant placement and improved end product quality.

CAREFULLY CALIBRATED SOLENOID CONTROL — Sencon's LST22 spray timer is ideally suited to maximize the efficiency of electro-pneumatic guns on stationary end liners. Originally developed to overcome solenoid latency on internal spray applications for beverage cans, the LST22 uses a carefully calibrated application of power to the solenoid to deliver tight and consistent opening and closing of the gun nozzle.

PICK-UP — Solenoids are inherently slow in turning on and off. In the 'pick-up' phase, the solenoid driver provides a high voltage to maximize the current and therefore, force in the coil. Since the time duration is short, no damage to the coil occurs.

HOLD — Once the solenoid is activated, the coil's stored energy must be dissipated to facilitate the solenoid turning off. In the 'hold' phase, the solenoid driver acts as a 'reducing' power supply allowing excess voltage to dissipate from the solenoid coil. By minimizing this voltage, the time required to remove the remaining energy to turn the solenoid off is greatly reduced. In addition, heat build-up in the solenoid is also reduced.

DROP-OUT — By eliminating the conventional flywheel diode and allowing reverse voltage on switch-off, stored energy is rapidly dissipated. This creates a fast—and more importantly—highly repeatable turn-off time for the solenoid.

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Product details may change due to continual development. Please consult Sencon directly for the latest specifications.