Linear Position Sensors for Recycling Center Baling Machines

**Problem**

Shopping centers and recycling centers use Baler machines to compact paper, cardboard and metals into bales that can then be sent off for recycling. These machines use large Hydraulic cylinders to compact the material and to push the bale out of the baler. Many of these machines are outfitted with mechanical limit switches to control the Ram position and ejectors. When mechanical limit switches are used, the baler only knows fully opened or closed and must make a full cycle if it is only half full. In applications where metals or heavy objects are being compacted, there are risks associated with these sensors being damaged from falling debris.

**Solution**

The 950MD Mill Duty Housing and 953 VMax Linear Displacement Transducer (LDT) are an ideal alternative to Limit Switches and lower cost linear sensors. The 953 VMax LDT is installed inside of the Stainless Steel 950MD Mill Duty Housing and the 950MD Housing is installed to the machine or cylinder to capture the Ram and Bale ejector positions. The 950MD Housing provides an added layer of protection to ensure the longevity of the Bailer. The 953 VMax™ provides absolute position feedback, that will tell the host controller exactly where it is at within its stroke, thus eliminating the need for the Ram to stroke fully when it is only half full.

The 950MD / 953VMax LDT is designed for applications where rugged continuous feedback is necessary. The sensor can be an effective replacement to linear potentiometers, limit and proximity sensors.

**Benefits**

- Solves issues with mechanical limit switches
- Solves issues associated with damage from falling debris
- PLC knows the absolute position of the ram
- Less wear on equipment
- Increased productivity

**Potential Customers**

Baler/Crusher OEM's, large recycling centers

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**Contact Information**

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