

## B. W. SINCLAIR INFORMATION UPDATE

### METAL DETECTOR CONVEYOR SCANS RUBBER SHEETING AT TIRE MANUFACTURER

B. W. SINCLAIR recently installed an inclined Slider Bed Belt Conveyor with integral high-sensitivity metal detector to scan for metal contamination in a continuous strand of rubber sheeting at an East Coast tire plant.



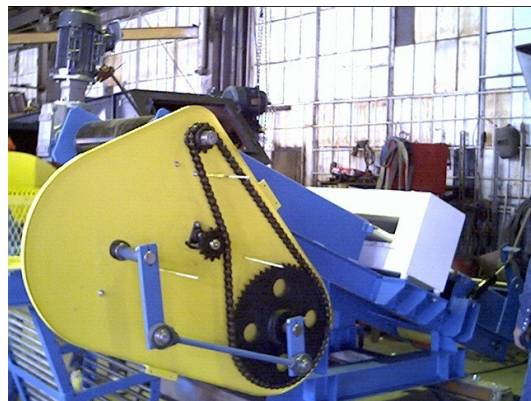
Sinclair designed the new conveyor as a dimensional replacement for an old unit that did not include the detector. We coordinated the installation of the scanner with its manufacturer, careful to provide the proper non-metallic zone and isolation from rotating or vibrating parts.



A pneumatically raised tension roller ahead of the tail pulley provides “pinch tension” on the sheet of rubber and allows our moving belt to propel the continuous strand.



The sheet proceeds through an oscillating open-frame discharge spout that “folds” the sheeting onto a waiting pallet. A slave drive from the primary head pulley powers the oscillator through adjustable torque arms.



A General Electric DC variable speed motor and a SEW-Eurodrive helical-bevel shaft mount reducer power the conveyor. Allen-Bradley Model 440E pull-cord safety stop switches provide personnel protection.

Metal detector conveyors – another material handling solution from **SINCLAIR**.

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