

## **TYPICAL SPECIFICATION**

### **QC<sup>®</sup> #1 Conveyor Belt Pre-Cleaner**

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The conveyor will be fitted with a belt cleaner installed against the face of the head pulley (in the pre-cleaner position) to remove carryback and return it to the main material flow.

This pre-cleaner will be composed of a one-piece blade molded from urethane that is affixed to the flange of a steel tube mainframe. The cleaner will be designed to allow replacement of the blade with the removal of only one locking pin.

The ends of the mainframe will telescope inside the frame's center section, to simplify installation without requiring the cutting of the mainframe.

The blade will be designed to maintain a constant angle of blade-to-belt contact and a constant area of material against the belt to provide efficient cleaning through all stages of blade life. The profile of the pre-cleaner blade will be designed with a curve to maintain a constant cleaning angle against the belt and a constant amount of urethane against the belt at all stages of blade wear.

The cleaner shall be held in cleaning position against the belt by means of a torque-storage tensioning device. This tensioner shall be designed with a set-resistant 60-durometer natural rubber coupling, which when twisted into tensioning position, shall maintain suitable cleaning pressure while requiring minimal adjustment to compensate for blade wear. The tensioner shall dampen splice impact to prevent damage to the cleaner. The tensioning device shall be self-relieving; in the event that excess blade wear or belt faults allow the blade to be "pulled through," the tensioner will release its stored force without any unshielded movements.

The supplier of the conveyor belt pre-cleaner and tensioner system will be ISO 9001 quality system certified.

The conveyor belt pre-cleaner shall be a QC<sup>®</sup> #1 Pre-Cleaner equipped with a MARTIN<sup>®</sup> TWIST Tensioner, as supplied by Martin Engineering, Neponset, Illinois.

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