Feltnova Movement Systems

Belt Construction and Accessories

Lateral stiffness

Crosswise stiffness helps a wide belt stay flat across the bed and limits creasing through swan-neck transitions. A fabric with monofilament yarns across the belt can provide this stiffness while allowing the belt to flex around pulleys.

Troughability

A crosswise-flexible belt follows the angled rollers of a troughed conveyor, forming a channel for loose material. Check the required trough angle and the belt’s ability to conform under both loaded and unloaded conditions.

Product release

Surface material and texture affect how cleanly tobacco leaves the belt at discharge. Select the finish for the moisture and additives in the product, and check release at the actual discharge roller.

Profiles and rakes

Welded polyester profiles support loose material on inclines. Choose the profile shape, height and spacing for the slope, load and discharge geometry. Some profile shapes are available in rolls.

Sidewalls

Corrugated polyester sidewalls contain loose tobacco along the edges of inclined conveyors. Available heights range from 40 to 80 mm. Check the clearance and minimum pulley diameter for the complete belt assembly.

Belt scrapers

A flexible polyester scraper removes carryback from the return side of the belt. Set the contact pressure to clear buildup while limiting wear on the cover and splice.

Smartseal edge sealing

Feltnova Smartseal covers exposed fabric at the belt edges. A sealed edge helps limit fiber shedding and the ingress of moisture, oil and grease during operation and cleaning.

Hydrolysis resistance

Repeated exposure to hot moisture or steam can weaken some belt constructions, leading to cracking or layer separation. Specify the operating temperature, exposure time and cleaning method when comparing belt types.