



Factors Influencing Belt Choice . . .

It is important that the correct belt is specified for a particular application. A number of factors should be taken into consideration:

Material to be conveyed: Does the material have sharp or rounded edges? Is the material oily, dusty, slick, sticky, etc.? What is the maximum temperature of the load? Does it need to be fire resistant?

Loading Conditions: Will the material be dropped onto the belt? If so, from what height? Will material be loaded in the same direction the conveyor is moving, or at an angle?

Maximum Loading Rate: What is the weight of the material being carried (measured in tons per hour)?

Speed: How fast does the conveyor to run? This is especially important when choosing a belt for a curved conveyor.

Operating Conditions: Is the conveyor running inside or outside? Will it be working in extreme hot or cold conditions?

Profile of Conveyor: Will the material be moving around a curve? Is the material moving at an incline or decline?

No two belts have behavior that's exactly the same. The variation from one carcass to the next, combined with variances in the composition and application of the top and bottom covers, contribute to the uniqueness of each belt.

All of these factors can affect the final belt choice. Portec's positive drive / loose belt system means that the conveying unit is not affected by changes in loading, tension, temperature, humidity and contamination on the belt. This ensures continuous reliable operation even in harsh and difficult environments. The low belt tension allows for a long component life. Your belt selection will not be restricted by power transmission requirements. The tracking is not affected by backing or carcass construction.

Portec has years of hands on experience with belting. We are able to replace belts from other power turn conveyor manufacturers. Call us to discuss your special needs.