



Why Horton Cleanroom Slide Doors

Horton Automatic Automatics Slide Doors for Cleanroom Applications Series 2000 Linear (ISO Class 3) Atmospheric I Series 2000B Belt Drive (ISO Class 5) Atmospheric II

From the Vice President of Engineering, Horton Automatics:

“The main reason we went with a linear drive operator originally was that we anticipated better long-term performance. We tested the belt drive and the results were not as good as the linear drive. There are adjustments we can make to the belt drive to perform better during the test but these adjustments may become offset over time and the belt will begin to wear creating particles in the header. Our testing has indicated that the belt is a major wear component that, in time, create a substantial amount of particles. Any misalignment with the pulleys, albeit months after the original installation, has a greater possibility of creating dust. We believe that the long-term performance of the linear drive rod is superior to the long-term performance of a soft flexible belt working on a harder pulley.

Our competitors test small width units at the lab and without door panels and then extrapolate their results. Some door manufacturers capture the dust particles inside the header but when it comes time to replace the belt, the entire area must be sealed off as removing the old belt makes a huge mess with high probability of contaminating the clean areas.

We learned quite a bit from our last belt drive test and I believe we can get the test to pass with an ISO Class 3 rating. Still, I believe that in terms of performance over time, the linear rod drive would be better in this regard and the preferred unit.”

It is our observation that no matter the type of sanitary, sterile or cleanroom environment, the Series 2000 Linear Rod Drive operator will perform better than our Series 2000B (or anyone else’s) Belt Drive for the reasons above.

Other features in favor of Horton Automatics Series 2000 & 2000B Atmospheric I & II:

- Horton stainless steel door panel cladding is 18 gauge...all others only 20 and will show wear much sooner
- 90% of cleanroom applications are sanitary/sterile driven, not particulate driven and are rated ISO 7 or above. Therefore, our Series 2000B Belt Drive offers owners options, a lower product cost and allows Horton to be at least equal to all competitors. Regardless, nothing is "cleaner" than our Series 2000 Linear Rod Drive.
- The operator is 50% of the decision factor given the importance of minimal downtime in a lab or cleanroom environment. Thus, dependability of the operator and responsiveness of the service agent are critical and argue very much in favor of the dependable local Horton Automatics distributor.
- Steel carrier wheels – Extremely durable wheels, zero particulate spinoff and easily replaceable track cap. These features all contribute to superior reliability, longevity and serviceability

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