

The Eagle PD™ Synchronous Belt System

The Corrugated Industry recognizes the importance of maintaining continued production in order to realize success, growth and profitability. To aid the corrugated industry in combatting costly downtime, Applied Industrial Technologies supplies and locally stocks the solutions to your production needs. For this reason, we are proud to feature the Goodyear Eagle Pd, a new technologically advanced drive system. The Eagle Pd's Helical Offset Tooth (HOT) design and continuous tooth engagement are truly unique technological advancements in synchronous drive belts and sprockets.

Corrugating Applications

- Mill Roll Stand
- Glue & Starch Mixers
- Circulating Pumps
- Vacuum Pumps
- Stock Pumps
- Cooling Tower
- Single Facer
- Folder/Gluer
- Scrap Shredder
- Scrap Blower
- Saws
- Transfer Cars
- Conveyors
- Palletizers
- Clipper Diverter Drive
- Shaker/Beater
- Stacker
- Slitter

Benefits

- **Increased Efficiency** – Continuous rolling engagement of belt and sprocket greatly reduces belt slippage, thereby lowering energy consumption and costs.
- **Reduced Belt Replacement** – Longer life means less costly belt replacement, less downtime and reduced maintenance costs.
- **Self Centering** – Continuous tooth engagement with the Helical Offset Tooth design eliminates belt tracking problems that cause premature wear.
- **Significant Noise Reduction** – Frequently reduces noise levels 15 - 25 dB lower than v-belts, premium synchronous drive belts and chain drives.



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Value Through Innovation

What Makes Eagle Pd Unique?

Belt and Sprocket Synergy – Eagle Pd's unique pattern design has evolved beyond the long-established round or square tooth profile. Its unique Helical Offset Tooth design enables the belt and sprockets to provide an uninterrupted, non-slip tooth engagement for:

- reduced vibration
- increased power ratings
- more precise movement
- improved stress distribution

Functional Design – The self-tracking Eagle Pd does not require sprocket flanges, and its exclusive design makes Eagle Pd self-cleaning. In turn, this significantly reduces belt edge wear and contamination buildup while offering bi-directional capability for use in reverse drive applications.

Compact Design – Eagle Pd's specialized composite materials allow the width of the belt to be reduced without compromising strength. The result is a lighter, narrower, more design-friendly drive option with no sacrifice in performance.

Stronger Construction for Longer Life – The Eagle Pd belts and sprockets were created primarily to offer longer drive belt life and virtually maintenance-free operation. Together, these are designed to run accurately with minimum friction to create the least amount of wear and the lowest operating noise.

Energy Savings – As a positive drive belt, Eagle Pd consistently operates at 98% efficiency, which is typically 5% more efficient than v-belts and 4% better than cogged v-belts. Eagle Pd requires no re-tensioning, and pulley life is far superior to conventional belts.

Lower Operating Costs – Eagle Pd contributes directly to increased efficiency, reduced downtime, lower maintenance costs and increased productivity. Together, these savings more than pay for Eagle Pd.

Eagle PD Case Histories

Case #1:

A Corrugating Facility in New England was experiencing constant noise and tracking problems with the premium synchronous drive belt on their **scrap blower**:

- The noise level was regarded as above the acceptable level.
- Belts were skipping and damaging sheaves during startup
- The belts had to be replaced every six months.

After converting to Eagle Pd more than a year ago, the belt, sprocket and sheave are still in place, noise levels have been reduced significantly, and Eagle Pd's self-tracking capability has totally eliminated the tracking problems.

Case #2:

A West Coast Corrugating Facility was facing several drive problems. One specific concern involved multiple v-belts on a **gluer** that were routinely slipping and quickly deteriorating.

With no flanges to promote deterioration and no need for periodic re-tensioning, the self-centering, self-tracking Eagle Pd system solved these problems as well as reduced related maintenance and downtime costs.

Consequently, they began converting each drive to Eagle Pd and in all cases, the Eagle eliminated the concerns so convincingly that all machinery fabricated in-house is now engineered to include Eagle Pd drives.

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