



DRIVEN BY POSSIBILITY™

CASE STUDY: **POWERGRIP™ GT4™**

Bakery saves money by converting
air handlers to GT4™.

End market: Bakery

Application: Air Handlers

Original parts: V-Belts

Solution: PowerGrip™ GT4™

PROBLEM

- A bakery had a v-belt drive system in its air handlers above the ovens which was contributing to high energy and maintenance costs. The v-belt slipping in the drives resulted in decreased energy efficiency through torque loss and the belts required constant re-tensioning and replacement, resulting in increased maintenance costs.

SOLUTION

- Gates technical experts determined the bakery could save on energy and maintenance costs by switching the v-belt drive systems on its air handlers to synchronous belt drive systems. The location of the air handlers above the ovens required a belt solution that could withstand high ambient temperatures which made PowerGrip™ GT4™ the perfect solution due to its high temperature tolerance up to 284°F intermittently. Because synchronous belt drive systems operate with positive tooth/groove engagement, GT4 negated the energy loss the bakery was experiencing with the v-belt drives, such as belt slip, torque loss, bending loss and friction, which resulted in energy cost savings. Additionally, there was no belt stretch and no re-tensioning with the new GT4 synchronous drive system, which saved the bakery in maintenance and replacement costs.



INCREASE ENERGY SAVINGS WHILE REDUCING MAINTENANCE COSTS

BENEFITS

- Increased productivity due to less downtime
- Lowered cost of ownership
- Reduced electrical costs
- Reduced day-to-day maintenance costs
- Achieved objectives for sustainability
- Reduced carbon footprint