

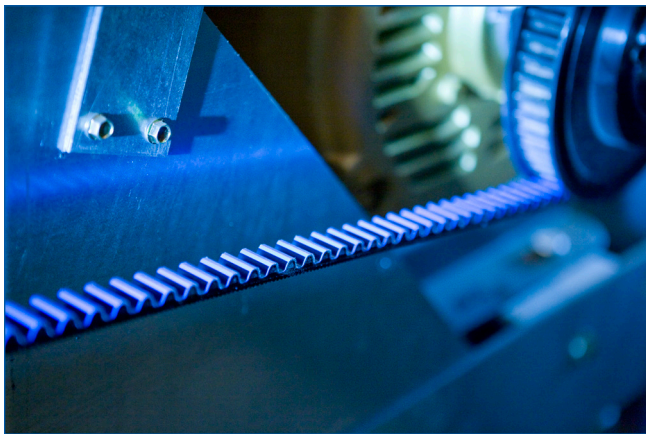
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## SYNCHRONOUS BELTS VS V-BELTS: 5 Reasons to Upgrade Your Belt Drive



### 1. Reduced Maintenance

V-belts require constant re-tensioning, while synchronous belts are tensioned just one time.

### 2. Increase Efficiency

V-belt efficiency can deteriorate over time due to slippage. Synchronous belts have a 98% efficiency rating,

### 3. Increase Energy Savings

With a thicker cross-section and a larger bend radius, V-belts require more energy than synchronous belts to operate under the same load.

### 4. Save Space

V-belts are narrower, but require additional belts in drives with heavier loads, ultimately taking up more space.

### 5. Switch To A Higher Horsepower Application

Synchronous belts maintain high-efficiency performance over a wide range of loads. V-belts are friction-dependant, limiting load capacity and increasing susceptibility to wear.

## APPLICATION SUCCESS

**INDUSTRY** Industrial Air Handling Equipment

**APPLICATION** HVAC Drive System Upgrade

**ORIGINAL DRIVE** 2-BX43 V-belt drives

**DETAILS** 9 Unit Hospital HVAC system

### PROBLEM

A new branch of a hospital was constructed with synchronous drives requested for the HVAC systems for their energy savings benefits, and longer life with reduced maintenance benefits. However, V-belts were installed because of lower up-front costs. They were operating below 90% efficiency, which means high energy bills.

### SOLUTION

All the drives were converted to Gates synchronous belts. The hospital has saved over **\$64K** in energy alone by replacing the inefficient V-belts with synchronous belt drives.

Maintenance has also been reduced because the Gates Poly Chain® GT Carbon belt drives require no re-tensioning and last significantly longer than the original V-belt drives.



Energy  
saving



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